

UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO

FACULTAD DE INGENIERÍA

Proyecto de aire acondicionado y ventilación para la construcción del edificio sede del Poder Judicial de la Federación en Celaya, Guanajuato.

INFORME DE ACTIVIDADES PROFESIONALES

Que para obtener el título de **Ing. Mecánico Electricista**

PRESENTA

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INTRODUCCIÓN

Durante miles de años el hombre advirtió que las corrientes de aire mitigaban la alta temperatura del ambiente en zonas de climas extremos, pero era incapaz de hacer algo al respecto. A lo máximo que llegó fue a refugiarse en cuevas o a meterse en el agua. Pero llegó un día en que comenzó a idear cómo podría disminuir la temperatura del ambiente a su antojo, y experimentó comenzando a esparcir gotas de agua a las corriente de aire.

La historia del aire acondicionado o enfriamiento artificial en forma empieza desde la época de los egipcios que ya utilizaban métodos para reducir el calor mediante el enfriamiento de las piedras.

Sin embargo la idea de crear un aparato al que hoy en día llamamos climatizador, parte del ingeniero estadounidense Willis Carrier quien en 1902 inventó la primera unidad de aire acondicionado eléctrica moderna al tratar de resolver un problema de humedad que estaba causando que las páginas de las revistas se arrugaran en la empresa de litografía para la cual trabajaba.

A pesar de los avances en las tecnologías de refrigeración en los años 30 y 40, estos sistemas eran demasiado grandes y caros para los hogares

Poco a poco se logró edificar sitios específicos que mantenían en condiciones ambientales más confortables y que auxiliados con un tratamiento del aire agregando humedad o secándolo comenzaron a mejorar las condiciones dentro de los recintos, logrando ventilar los espacios de manera aceptable. Tomando muy en cuenta que en todos los recintos la ganancia o pérdida de calor dependería del tipo de materiales a utilizar como por ejemplo: el tipo de muro (de concreto, ladrillo, etc.), vidrio (transparente, ahumado, espesor del vidrio, con película reflejante, etc.), losa, entrepiso, etc.; y adicional a la orientación del recinto con respecto al sol y a la estación del año (periodo con ciertas condiciones climáticas). Hasta nuestros días que logra diseñar sistemas de acondicionamiento de aire para cada aplicación, controlando las condiciones de temperatura y humedad necesaria para lograr ambientes de confort dentro de un recinto, no importando las condiciones ambientales del lugar.

Para nuestro caso en particular se tomaron en consideración los estándares nacionales e internacionales que indican los parámetros de temperatura y humedad que mantienen las condiciones de confort para las áreas de oficinas, centros de computo, comedor, área de cocina y áreas asignadas como bodegas.

i

OBJETIVO DEL TRABAJO

Las necesidades actuales del Poder Judicial de la Federación como parte de un programa nacional, es instrumentar y poner en vigor un Nuevo Sistema Procesal Penal Acusatorio en toda la República Mexicana. Y para este caso en particular el Consejo de la Judicatura Federal tiene asignado un predio ubicado en calle Quetzalli No. 901, fraccionamiento los Álamos CP 38020 Celaya Guanajuato; cuya superficie para esta construcción es de 2,425 m2 destinada para la Nueva Sede del Poder Judicial de Federación en esa entidad. En donde el objetivo es la aplicación de las nuevas tecnologías de sistemas de aire acondicionado y calefacción con refrigerante de volumen variable (VRV), con refrigerante ecológico a las áreas de oficinas y áreas públicas, dando como resultado un ambiente de confort, un ahorro de energía, la ventaja de llevar un solo recorrido de tuberías de cobre e ir distribuyendo a las evaporadoras con la tubería requerida.

Para el caso del Site de cómputo se especificó un sistema de aire acondicionado de precisión que garantiza las condiciones de temperatura y humedad durante todos los días del año.

Para áreas independientes de jueces y titulares se especificaron equipos unitarios divididos con refrigerante ecológico conectados a circuitos eléctricos de emergencia.

El alcance también incluye mantener las condiciones apropiadas de la calidad del aire dentro del inmueble, contando con sistema de extracción y renovación de aire.

En el primer capítulo se inicia la descripción de la empresa, dando fe que es una empresa nacional con carácter de servicios de arquitectura e ingeniería integral, que bajo un mismo techo da soluciones integrales a cada tipo de inmueble, ya sea de carácter residencial, comercial e industrial.

En el segundo capítulo se hace mención de las responsabilidades y funciones que me competen dentro de la empresa, que garantizan la coordinación de trabajo en equipo con las demás disciplinas de ingeniería y arquitectura.

En el tercer capítulo se describe nuestra colaboración dentro de la empresa, donde se muestra el proyecto de aire acondicionado y ventilación para la construcción del edificio Poder Judicial de la Federación en Celaya, Guanajuato.

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DESCRIPCIÓN DE LA EMPRESA

EMPRESA: IEMBK S.A. DE C.V.

TRABAJO:

Proyecto de aire acondicionado y ventilación para la construcción del edificio sede del Poder Judicial de la Federación en Celaya, Guanajuato.

IEMBK S.A. DE C.V.- es la asociación de un grupo de expertos altamente calificados en sus respectivas especialidades, con experiencia mayor a 15 años que se han unido para proporcionar servicios integrales de asesoría técnica en obras de todo tipo de construcción en el más alto nivel profesional bajo la razón social de "IEMBK, S.A. de C.V." (Integral Engineering & Management of Buildings).

VISIÓN

Con una clara conciencia de las necesidades actuales, de México está a la búsqueda de nuevas metodologías que le permitan lograr mayores niveles de competitividad bajo un esquema de profesionalismo.

MISIÓN

Con el propósito de ofrecer al cliente soluciones integrales a proyectos dentro de la industria de la construcción para áreas comerciales e industriales; ofrecer las siguientes funciones:

- 1.-) PLANEACIÓN
- 1.1.) Estudios de Factibilidad Técnico y Financiera.
- 1.2.) Elaboración de Proyectos Integrales.
- 1.3.) Levantamientos Topográficos.
- 1.4.) Evaluación de Alternativas y Prioridades.
- 1.5.) Programación y Control de Obras y Proyectos.
- 1.6.) Análisis de Precios Unitarios y Presupuestos Base.
- 1.7.) Selección de Equipos.
- 2.-) COORDINACIÓN INTEGRAL Y SUPERVISIÓN DE OBRAS Y PROYECTOS
- 2.1.) Elaboración y Seguimiento de Programas de Ruta Crítica.
- 2.2.) Controles de Avances, de Calidad y de Costos.
- 2.3.) Informes Técnicos y Financieros.

- 2.4.) Coordinación de la Construcción
- 3.-) ARQUITECTURA, URBANISMO Y CONSTRUCCIÓN
- 3.1.) Planes Maestros de Desarrollo Urbano Integral.
- 3.2.) Planos Reguladores.
- 3.3.) Diseño Urbano y de Fraccionamientos.
- 3.4.) Movimiento de Terracerías.
- 3.5.) Instalaciones.
- 3.6.) Pavimentos.
- 3.7.) Centros Hospitalarios.
- 3.8.) Edificación.
- 3.9) Docencia e Investigación
- 4.-) VIALIDAD Y TRANSPORTE
- 4.1.) Estudio Integral de Vialidad y Transporte.
- 4.2.) Análisis de Alternativas y Evaluación de su Costo Beneficio.
- 4.3.) Estudio de Prioridades a Corto y Mediano Plazo.
- 4.4.) Programa y Etapas de Trabajo.
- 4.5.) Proyectos Ejecutivos.
- 4.6.) Elaboración de Presupuestos Base.
- 4.7.) Coordinación y Supervisión de Obra.
- 4.8.) Informes Técnicos y Financieros.
- 5.-) OBRAS HIDRÁULICAS
- 5.1.) Sistemas de Agua Potable.
- 5.2.) Sistemas de Alcantarillado.
- 5.3.) Sistemas de Recuperación.
- 5.4.) Plantas de Tratamiento.

- 5.5.) Sistemas de Riego.
- 5.6.) Sistemas de Bombeo.
- 5.7.) Evaluaciones.
- 6.-) ELECTRICIDAD Y MECÁNICA
- 6.1.) Distribución.
- 6.2.) Fuerza y Alumbrado.
- 6.3.) Controles.
- 6.4.) Pararrayos y Tierras.
- 6.5.) Aire Acondicionado.
- 6.6.) Manejo de Materiales.
- 6.7.) Control de Polvos.
- 7.-) PLANTAS INDUSTRIALES
- 7.1.) Estudios de Localización.
- 7.2.) Servicios de Apoyo.
- 7.3.) Anteproyectos.
- 7.4.) Arreglo General.
- 7.5.) Proyectos Definitivos.
- 7.6.) Coordinación.
- 8-) ESTRUCTURAS
- 8.1.) Edificios.
- 8.2.) Tanques.
- 8.3.) Silos.
- 8.4.) Puentes.
- 8.5.) Estructuras Especiales.

FILOSOFÍA

Nuestra filosofía es ofrecer los servicios que originen, doten y propicien un óptimo aprovechamiento de los recursos energéticos y/o materiales de cualquier tipo de inmueble para obtener el máximo desempeño tanto en su operación, como en el desarrollo de las actividades de sus ocupantes, gracias a un entorno de seguridad para bienes y personas y al confort necesario para usuarios y visitantes.

El reto de IEMBK es convertir a las empresas y espacios comunes en organizaciones inteligentes y productivas, evitando además, que los empresarios sean sorprendidos con tecnologías obsoletas a altos costos.

IEMBK trabaja en la búsqueda de soluciones que permitan disminuir los costos de operación y mantenimiento para poder ofrecer mejores precios y, ante todo, dar respuesta a las necesidades específicas del cliente con la más alta calidad.

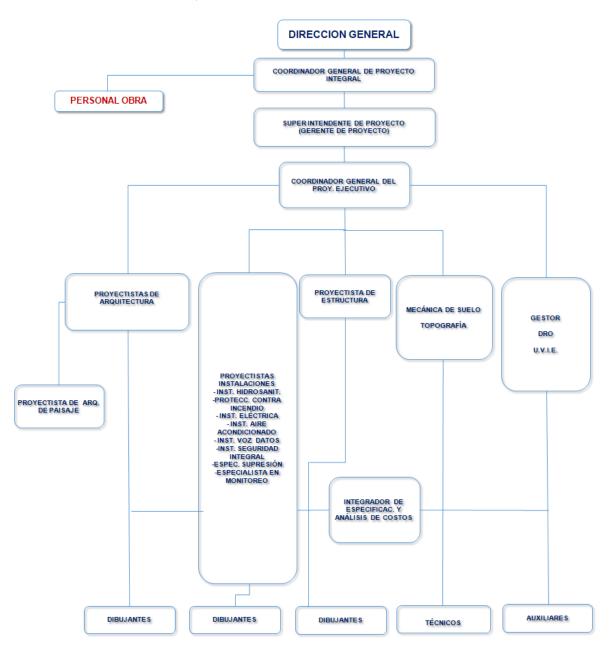
IEMBK busca conseguir la confianza de nuestros clientes a través del apego total a la ética y al profesionalismo, fortaleciendo nuestra experiencia a través de soluciones de calidad, eficientes e innovadoras.

OFICINAS CENTRALES

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C.P.06600 T/F 19989940/41 iembk_1@yahoo.com.mx

ORGANIGRAMA - IEMBK, S.A. DE C.V.



DESCRIPCIÓN DEL PUESTO DE TRABAJO

Durante más de 10 años se me asigno la responsabilidad del departamento de aire acondicionado y ventilación (Instalación de Aire Acondicionado) donde las actividades a desempeñar son:

- Atender de manera directa al departamento de arquitectura ó al desarrollador del inmueble para definir los criterios y alcances del proyecto de aire acondicionado y ventilación según sea el tipo de edificación.
- Coordinar con el departamento de arquitectura y estructuras para la asignación de áreas para equipos, pasos en losas y muros; así como solicitar los tipos de acabados tanto interior como exterior del inmueble, planos de distribución de mobiliario, alzados, orientación del inmueble con respecto al norte geográfico.
- Calcular las cargas térmicas y ventilación del inmueble de acuerdo a métodos de cálculo aprobados por normas internacionales que nos permitan dimensionar las capacidades y características de los equipos de aire acondicionado y ventilación.
- Realizar un análisis de las ventajas y desventajas de los diferentes tipos de sistemas de aire acondicionado y ventilación para el tipo de inmueble a acondicionar, considerando los factores de costos, ahorro de energía, tiempo de entrega, mantenimientos, vida útil, etc.
- Selección de equipos por medio de software autorizados por fabricantes de equipos de aire acondicionado, así como la especificación de materiales como tuberías, válvulas, lámina negra o galvanizada para ductos, aislamiento para ductos y tuberías, soportes para equipos y materiales, etc.
- Distribución de equipos, trayectorias de tuberías y ductos, canalización de tuberías de control, ubicación de instrumentación y control, generación de cuadro de equipos, detalles, y alzados; todo esto representados en planos ejecutivos de obra.
- Asesoría, supervisión y apoyo directo en la obra del inmueble, donde se atestigua que el desarrollo de la obra sea de acuerdo al proyecto ejecutivo, coordinando el cruce de otras instalaciones con el sistema de aire acondicionado y ventilación.
- Emitir la secuencia de operación del sistema de aire acondicionado y ventilación para que sea la programada en los sistemas de control y automatización.
- Asistir a las pruebas y los arranques de los equipos verificando que cumplan con las especificaciones de desempeño de cada unidad.

NORMAS Y REGLAMENTOS

Actualmente en México no existe un reglamento o normatividad oficial que sea mandatorio para la aplicación de las buenas prácticas de cálculos y selección de sistemas de aire acondicionado, pero en la industria dedicada a esta especialidad recomienda aplicar las siguientes normas nacionales e internacionales:

- ASHRAE.- American Society of Heating, Refrigerating and Air Conditioning Engineers
- AMCA.- Air Movement and Control Association
- SMACNA.- Sheet Metal and Air Conditioning Contractors National Association
- ASME.- American Society of Mechanical Engineers
- UMC.- Uniform Mechanical Code
- Normas de Diseño del IMSS
- AMERIC.- Asociación Mexicana de Empresas del Ramo de Instalaciones para la Construcción

HERRAMIENTAS DE CÁLCULO Y SELECCIÓN DE EQUIPOS (SOFTWARE)

- AutoCAD.- software de dibujo técnico.
- Tracer 700 (software de Trane Método de cálculo)
- Hisense VRF design.- software de cálculo y selección de equipos de sistema VRF de la marca Hisense.
- Ductziser.- Software para cálculo de dimensión de ductos.
- Software de Office

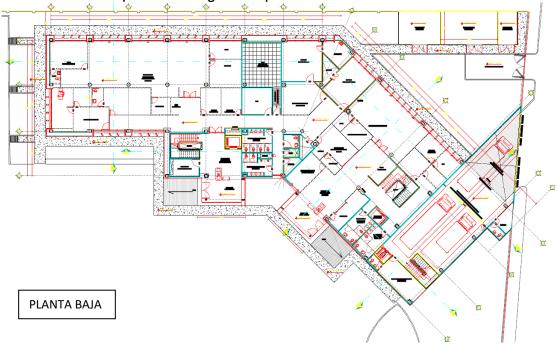
DESCRIPCIÓN DE LA PARTICIPACIÓN DEL ALUMNO EN LA EMPRESA

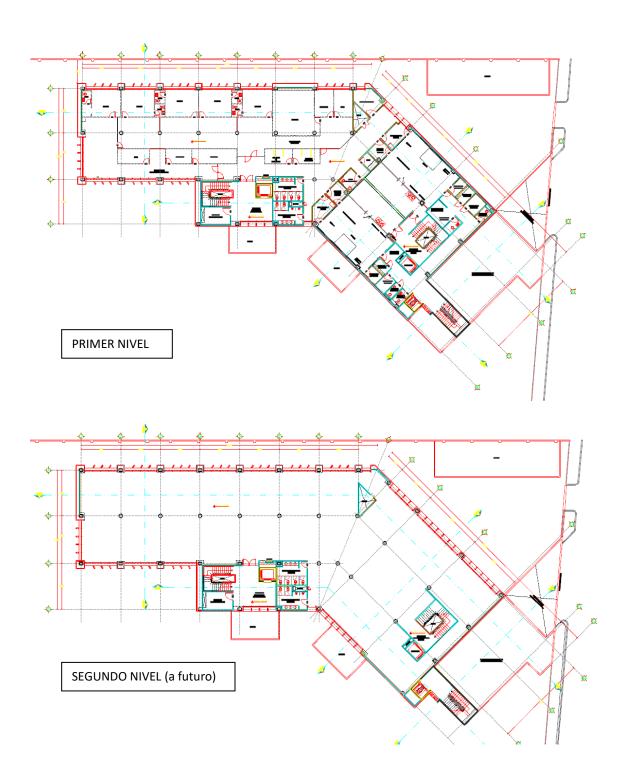
ANTECEDENTES DEL PROYECTO

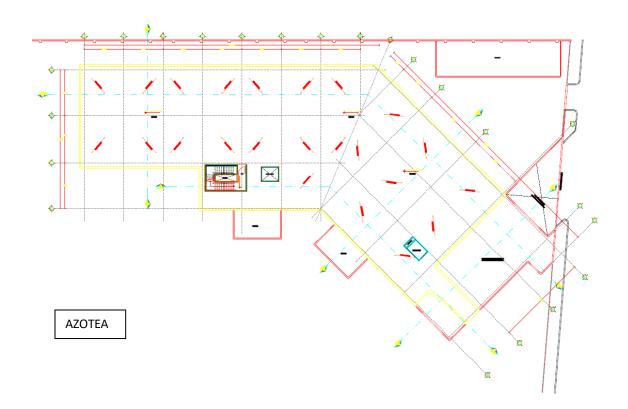
Las necesidades actuales del Poder Judicial de la Federación como parte de un programa nacional es instrumentar y poner en vigor un Nuevo Sistema Procesal Penal Acusatorio en toda la República Mexicana. Y para este caso en particular el Consejo de la Judicatura Federal tiene un predio ubicado en calle Quetzalli No. 901, fraccionamiento los Álamos CP 38020 Celaya Guanajuato; cuya superficie para esta construcción es de 2,425 m² con las siguientes superficies asignadas por área:

| ÁREA | CUADRADOS |
|---|---|
| PLANTA BAJA – CENTRO DE JUSTICIA | 1,364 |
| ZONA DE SEGURIDAD - CENTRO DE JUSTICIA | 240 |
| PRIMER NIVEL - CENTRO DE JUSTICIA | 1,299 |
| SEGUNDO NIVEL - DISPONIBLE PARA ADECUACIONES | 1,299 |
| TOTAL DE EDIFICIO PRINCIPAL | 3,962 |
| SUBESTACIÓN ELÉCTRICA | 80 |
| CUARTO DE BOMBEO | 50 |
| TOTAL DE EDIFICIOS COMPLEMENTARIOS | 130 |
| FICIE TOTAL DE CONSTRUCCIÓN | 4,092 |
| PLAZOLETAS DE ACCESO, PASOS PEATONALES CUBIERTOS, JARDINES, MUROS DE COLINDANCIA Y REJAS PERIMETRALES (278 m), INGRESOS VEHICULARES, ZONA DE SEGURIDAD PARA TRASLADO DE IMPUTADOS, ZONAS DE SERVICIOS CON ESTACIONAMIENTO DE SERVICIO. | 691 |
| | PLANTA BAJA – CENTRO DE JUSTICIA ZONA DE SEGURIDAD – CENTRO DE JUSTICIA PRIMER NIVEL – CENTRO DE JUSTICIA SEGUNDO NIVEL - DISPONIBLE PARA ADECUACIONES TOTAL DE EDIFICIO PRINCIPAL SUBESTACIÓN ELÉCTRICA CUARTO DE BOMBEO TOTAL DE EDIFICIOS COMPLEMENTARIOS RFICIE TOTAL DE CONSTRUCCIÓN PLAZOLETAS DE ACCESO, PASOS PEATONALES CUBIERTOS, JARDINES, MUROS DE COLINDANCIA Y REJAS PERIMETRALES (278 m), INGRESOS VEHICULARES, ZONA DE SEGURIDAD PARA TRASLADO DE IMPUTADOS, ZONAS DE SERVICIOS CON |

La distribución arquitectónica general por nivel:







BASES DE DISEÑO

Las condiciones climatológicas están basadas en la especificación Publicada por AMERIC (Asociación Mexicana de Empresas del Ramo de Instalaciones para la Construcción, A.C.)

| Celaya, Guanajuato. |
|---------------------|
| 20° 50' |
| 100° 80' |
| 1,752 m |
| 622 mm Hg |
| |
| |
| 100 °F (37.7 °C) |
| 68.0°F (20.00 °C) |
| |
| 32 °F (0 °C) |
| |

CONDICIONES INTERIORES DE DISEÑO

| | | AIRE ACOND | ICIONADO | |
|--|--|---------------------------|--------------------------------|--|
| ÁREA | TEMPERATURA DE DISEÑO (TEMPERATURA DE BULBO SECO) | HUMEDAD RELATIVA HR | CAMBIOS DE AIRE POR HORA | CONTROL DE TEMPERATURA |
| | | | | |
| Oficina de Titular | Verano: 24°C, Invierno: 21 | Verano: 50% | | Independiente |
| Sala de Sesiones | Verano: 24°C, Invierno: 21 | Verano: 50% | - | Independiente |
| Defensor Público y 1 Oficial | Verano: 24°C, Invierno: 21 | Verano: 50% | - | Central |
| Secretario o Jefe de Departamento y 2 Oficiales | Verano: 24°C, Invierno: 21 | Verano: 50% | - | Central |
| Correspondencia Común | Verano: 24°C, Invierno: 21 | Verano: 50% | | Central |
| SISE | Verano: 24°C, Invierno: 21 | Verano: 50% | - | Central |
| Oficialía de Partes | Verano: 24°C, Invierno: 21 | Verano: 50% | - | Central |
| Actuario:1 actuario y 1 oficial | Verano: 24°C, Invierno: 21 | Verano: 50% | - | Central * |
| Secretario (Sección de Trámite o Secretaría de Acuerdos) | Verano: 24°C, Invierno: 21 | Verano: 50% | | Central |
| Oficial (Sección de Trámite o Secretaría de Acuerdos) | Verano: 24°C, Invierno: 21 | Verano: 50% | - | Central |
| Secretario de Tesis y 1 Oficial | Verano: 24°C, Invierno: 21 | Verano: 50% | - | Central |
| Estación de Café | Verano: 24°C, Invierno: 21 | Verano: 50% | - | Central |
| Archivos | Verano: 24°C, Invierno: 21 | Verano: 50% | - | Central |
| Papelería | Verano: 24°C, Invierno: 21 | Verano: 50% | - | Central |
| Copias | Verano: 24°C, Invierno: 21 | Verano: 50% | | Central |
| Vestíbulos | Verano: 24°C, Invierno: 21 | Verano: 50% | - | Central |
| Pasillos | Verano: 24°C, Invierno: 21 | Verano: 50% | - | Central |
| Bodegas | - | - | 10 | - |
| Área Secretarial | Verano: 24°C, Invierno: 21 | Verano: 50% | | Central |
| Espera | Verano: 24°C, Invierno: 21 | Verano: 50% | - | Central |
| Sanitario de Titular | | - | 20 | - |
| E.R. (SITE) | 18°C a 22°C | 50% | - | Independiente con control de humedad |
| I.D.F. | 18°C a 22°C | 50% | - | Independiente |
| Cuarto de monitoreo y control | 20°C a 24°C | 50% | - | Independiente |
| Cuarto de vigilancia | Verano: 24°C, Inviemo: 21 | Verano: 50% | - | Independiente |
| Sanitarios Generales (Servidores Públicos y Visitantes) | - | - | 20 | - |
| Cuarto Eléctrico | 8 - | 1- | 30 | - |
| Aseo | - | - | 20 | - |
| Articulos de delito | - | | 20 | - |
| Vestíbulo de Acceso al Edificio | Verano: 24°C, Invierno: 21 | Verano: 50% | - | Central |
| Extracción de Campanas en cocina | ;= | | 80 ppm | - |

CÁLCULO TÉRMICO

Para realizar el cálculo térmico en cada área a acondicionar se utilizó el software Tracer 700, el cual se apega a los criterios del ASHRAE para el análisis de ganancias ó pérdidas de calor en un inmueble de acuerdo a los siguientes factores:

- Ganancia de calor por radiación solar de acuerdo a la situación geográfica del inmueble.
- Ganancia de calor total a través de muros y techos exteriores.
- Ganancia de calor por superficies interiores.
- Ganancia de calor por cargas eléctricas.
- Ganancia de calor por número de personas en el inmueble.

Location

Heating load methodology

Ganancia de calor por toma de aire exterior.

CJPF Celaya

Building owner
Program user
Company
Comments

By
Trane
Dataset name

Consejo de la Judicatura Federal
Trane
G:\CJPF CELAYA\CJPF CELAYA.TRC

12:04 PM on 11/16/2017 Calculation time TRACE® 700 version 6.2.2 Location Celaya, Guanajuato Latitude 20.5 deg 100.8 Longitude deg Time Zone 5,747 Elevation Barometric pressure 24.5 in. Hg Air density 0.0620 lb/cu ft Air specific heat 0.2444 Btu/lb.°F Density-specific heat product 0.9098 Btu/h-cfm-°F Latent heat factor 4,004.7 Btu·min/h·cu ft Enthalpy factor 3.7218 lb·min/hr·cu ft Summer design dry bulb 100 Summer design wet bulb °F °F 32 Winter design dry bulb 1.00 Summer clearness number Winter clearness number 1.00 0.20 Summer ground reflectance Winter ground reflectance 0.20 Carbon Dioxide Level 400 ppm Design simulation period January - December Cooling load methodology TETD-TA1

UATD

Celava, Guanajuato





Load / Airflow Summary

By Trane

| ## Alternative 1 Fig. Area 01 Jusz. Administrator Rm Peak 1723 | | | | | | Dy I | ialic | | | | | | | | |
|--|---------|--|---------|-------|--------|---------|---------|--------|--------|---------|---|---------|-------|------|------|
| ### PARES 01 Jusz Administrator | | | | | People | Cooling | Cooling | Design | | Minimum | | Heating | Fan | | |
| PB Area D1 Juez Administrator Rm Peak 207 3.0 17.733 19.397 1.310 2.24 0 0 -3.901 1.330 1.7 1.7 1.9 PB Area D2 Despachos Log Admino Rm Peak 1.723 2.1 0 7.7565 8.03.163 1.5081 2.174 0 0 0 -4.1075 5.061 2.8 2. PB Area D3 Sala Rm Peak 1.49 4.0 10.804 19.208 1.218 63.74 0 0 0 -2.574 1.218 2.5 2. PB Area D4 Archivo Rm Peak 245 1.0 3.055 3.035 3.033 2.12 61.0 0 0 0 -4.013 2.12 3.5 3. PB Area D4 Archivo Medico Rm Peak 245 1.0 3.055 3.055 3.033 2.12 6.019 0 0 0 -5.0342 1.400 1.5 1. PB Area D5 Consultation Medico Rm Peak 273 3.0 11.004 20.408 1.400 30.59 0 0 0 -3.042 1.400 1.5 1. PB Area D6 Lectancia Rm Peak 273 4.0 0.8373 1.208 70 0 0 -3.050 752 4.0 4. PB Area D6 Lectancia Rm Peak 273 4.0 0.8373 1.208 70 0 0 -3.000 752 4.0 4. PB Area D6 Lectancia Rm Peak 315 12.0 0.066 20.000 4.33 0.07 0 0 -4.717 4.33 20.8 20. PB Area D6 Papeleria Rm Peak 315 12.0 0.606 20.000 4.33 0.07 0 0 -4.717 4.33 20.8 20. PB Area D6 Papeleria Rm Peak 33 1.0 2.000 2.003 4.33 10.07 0 0 -4.717 4.33 20.8 20. PB Area D6 Papeleria Rm Peak 733 7.0 15.000 11.000 11.000 11.000 11.000 1.000 1.000 1.300 1.315 1.7 5. PB Area 10 Pasilio interior Rm Peak 139 4.0 6.05 3.010 1.00 | System | Zone Room ** | | ft² | # | Btu/h | Btu/h | cfm | ach/hr | cfm | % | Btu/h | cfm | Clg | Htg |
| PB Area 02 Despachos Log Admyo Rm Peak 1,723 2,10 77,865 8,3183 5,681 2,174 0 0 1,40,75 5,681 2,6 2,2 PB Area 03 Sala Rm Peak 149 4,0 1,004 1,028 1,1218 6,074 0 0 0 -2,674 1,1218 2,5 2,5 2,6 2,7 2,7 3,7 3,7 3,7 3,7 3,7 3,7 3,7 4,7 4,7 4,7 4,7 4,7 4,7 4,7 4,7 4,7 4 | Alterna | | | | | | | | | | | | | | |
| PB Area 03 Sala | | PB Area 01 Juez Administrador | | 267 | 3.0 | 17,733 | | 1,310 | | - | - | | | 1.7 | 1.7 |
| PB Area 04 Archivo Rm Peak 228 10 3.025 3.033 212 6.10 0 0 0 3.613 212 3.6 3.0 PB Area 05 Carculatriol Medico Rm Peak 87 20 1.470 3.222 68 6.23 0 0 1.795 69 2.16 21 PB Area 05 Carculatriol Medico Rm Peak 87 20 1.470 3.222 68 6.23 0 0 1.795 69 2.16 21 PB Area 07 Secretaria SM Rm Peak 213 4.0 0 8.787 81.208 83 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | 5,681 | | 0 | 0 | | | | 2.8 |
| PB Area 05 Consultorio Medico Rm Peak 243 3.0 19.004 20.468 1,480 39.59 0 0 0 -3.842 1,480 1.5 1. PB Area O5 Consultorio Medico Rm Peak 273 3.0 19.004 20.468 1,480 39.59 0 0 0 -3.842 1,480 1.5 1. PB Area O7 Secretaria SM Rm Peak 213 4.0 9.878 12.088 752 233 0 0 0 -3.066 752 4.0 0 4. PB Area O7 Secretaria SM Rm Peak 315 12.0 9.665 20.209 433 9.07 0 0 0 -4.717 433 20.8 20. PB Area OF Papelleria Rm Peak 31 10 2.068 2.069 2.099 433 9.07 0 0 0 -4.717 433 20.8 20. PB Area OF Papelleria Rm Peak 31 10 2.068 2.069 2.069 3 131 10.36 0 0 -3.666 131 5.7 5. PB Area 10 Pasilla Intentor Rm Peak 733 7.0 16,900 19.867 1,135 10.21 0 0 7.76.29 1,135 4.0 4. PB Area 10 Pasilla Intentor Rm Peak 139 4.0 5.663 9.160 32.0 15.14 0 0 0 -7.629 1,135 4.0 4. PB Area 12 Justicia Alternativa Rm Peak 139 4.0 5.663 9.160 32.0 15.14 0 0 0 -7.629 1,135 4.0 4. PB Area 13 Section Rm Peak 139 6.0 6.200 11.353 323 15.00 0 0 -1.847 323 13.9 13. PB Area 15 Boolaga Rm Peak 70 1.0 3.344 3.833 20.8 10.45 0 0 0 -1.940 20.8 3.6 3. PB Area 16 Control de access Rm Peak 240 5.0 12.103 15.679 907 20.75 0 0 -5.050 907 3.8 3. PB Area 15 Westbulos access funcionarios Rm Peak 490 5.0 10.032 14.275 92.2 8.37 0 0 0 -8.050 907 3.8 3. PB Area 15 Westbulos access funcionarios Rm Peak 490 5.0 10.032 14.275 92.2 8.37 0 0 0 -8.050 907 3.8 3. PB Area 15 Westbulos access funcionarios Rm Peak 490 5.0 17.36 11.568 422 5.61 0 0 0 -9.454 422 8.9 B PB Area 16 Pasillos aenitarios Rm Peak 490 5.0 17.36 11.568 422 5.61 0 0 0 -9.454 422 8.9 B PB Area 19 Section Rm Peak 490 5.0 17.03 17.00 | | | | | | | | | | _ | - | | | | 2.5 |
| PB Area 00 Lectancia | | | | | | | | | | - | - | | | | 3.5 |
| PB Area 07 Secretaria SM Rm Peak 213 4.0 9.878 12.088 752 23.33 0 0 0 -3.056 752 4.0 4. PB Area 08 Lookers Rm Peak 315 12.0 9.656 20.209 433 0.07 0 0 0 -4.717 433 20.8 20.8 PB Area 08 Lookers Rm Peak 315 12.0 9.656 20.209 433 0.07 0 0 0 -4.717 433 20.8 20.0 PB Area 10 Pasillo Interior Rm Peak 733 7.0 15.000 19.867 1.135 10.21 0 0 7.000 131 5.7 6 PB Area 10 Pasillo Interior Rm Peak 139 4.0 5.663 9.160 10.867 1.135 10.21 0 0 7.000 11.135 4.6 4. PB Area 10 Pasillo Interior Rm Peak 139 4.0 5.663 9.160 320 11.64 0 0 -1.847 323 13.0 13. PB Area 12 Justicia Alternativa Rm Peak 139 4.0 5.0 6.653 9.160 0 0 0 -1.847 323 13.9 13. PB Area 13 Bodiga Rm Peak 70 1.0 3.344 3.833 20.8 19.45 0 0 0 -1.847 323 13.9 13. PB Area 13 Bodiga Rm Peak 246 5.0 12.103 15.679 907 20.75 0 0 -5.000 907 3.8 3. PB Area 15 Vestbulos accesso funcionarios Rm Peak 490 5.0 10.032 14.275 6022 8.37 0 0 0 -8.072 622 6.0 6. PB Area 15 Vestbulos accesso funcionarios Rm Peak 490 5.0 10.032 14.275 6022 8.37 0 0 0 -8.0572 622 6.0 6. PB Area 16 Pasillo santiarios Rm Peak 490 5.0 10.032 14.275 6022 8.37 0 0 0 -8.054 20 8. PB Area 17 Bodiega Rm Peak 490 5.0 10.032 14.275 6022 8.37 0 0 0 -1.632 164 4.6 4. PB Area 18 TB CECOM de Seguridad Rm Peak 490 5.0 2.514 3.363 164 10.42 0 0 0 -1.632 164 4.6 4. PB Area 18 TB CECOM de Seguridad Rm Peak 490 5.0 2.514 3.363 164 10.42 0 0 0 -1.632 164 4.6 4. PB Area 18 TB CECOM de Seguridad Rm Peak 490 2.0 5.05 52.00 9.2091 32.88 0 0 0 -1.632 164 4.6 4. PB Area 20 Cocordinacion de Seguridad Rm Peak 490 2.0 5.05 52.00 9.2091 32.88 0 0 0 -1.468 2.0091 0.7 0. PB Area 20 Cocordinacion de Seguridad Rm Peak 490 2.0 5.0 5.272 7.027 348 7.41 0 0 0 -1.468 2.0091 0.7 0. 0. PB Area 20 Cocordinacion de Seguridad Rm Peak 300 2.0 5.272 7.027 348 7.41 0 0 0 -1.468 2.0091 0.7 0.0 1.468 2.0091 0.7 0.0 0.0 1.468 2.0091 0.7 0.0 0.0 1.468 2.0091 0.7 0.0 0.0 1.468 2.0091 0.7 0.0 0.0 1.468 2.0091 0.7 0.0 0.0 1.468 2.0091 0.7 0.0 0.0 1.468 2.0091 0.7 0.0 0.0 1.468 2.0091 0.7 0.0 0.0 1.468 2.0091 0.7 0.0 0.0 1.468 2.0091 0.7 0.0 0.0 1.468 2.0091 0.7 0 | | | | | | | | | | | | | | | 1.5 |
| PB Area 10 Ludotece | | PB Area 06 Lactancia | | 87 | 2.0 | 1,470 | 3,222 | 69 | 5.23 | 0 | 0 | -1,795 | 69 | 21.6 | 21.6 |
| PB Area 10 Papeleria Rm Peak 83 1.0 2.080 2.083 131 10.38 0 0 0 -380 131 5.7 5. FB Area 10 Papello Interior Rm Peak 733 7.0 15,900 19,867 1,135 10.21 0 0 7-26,209 1,135 4.0 4.0 FB Area 11 Testigo Protegido Rm Peak 139 4.0 6.63 9,100 320 16.14 0 0 0 -1,840 320 14.4 4.0 FB Area 12 Justicia Alternativa Rm Peak 138 6.0 6.280 11,558 323 16.00 0 0 -1,847 323 13.9 13. FB Area 13 Bodega Rm Peak 70 1.0 3,344 3,833 208 18.45 0 0 -1,850 208 3.3 FB Area 14 Control de acceso Rm Peak 400 5.0 12,103 15,979 997 28,75 0 0 -5,050 997 3.8 3. FB Area 15 Vestbulo acceso funcionarios Rm Peak 400 5.0 10,032 14,275 622 8.37 0 0 0 -5,050 997 3.8 3. FB Area 17 Bodega Rm Peak 400 5.0 10,032 14,275 622 8.37 0 0 0 -8,072 622 6.0 6. FB Area 17 Bodega Rm Peak 400 5.0 7,316 11,568 422 5.01 0 0 0 -4,452 10.0 6. FB Area 17 Bodega Rm Peak 400 1.0 2,514 3,363 16.4 10.42 0 0 0 -1,632 10.4 4.0 4. FB Area 18 BITE Rm Peak 711 2.0 91,776 82,023 15.0 10.0 10,770 10.0 FB Area 10 Seguinded Rm Peak 419 2.0 26,205 28,469 2.091 32,88 0 0 0 -4,698 2.091 0.7 0. FB Area 10 CECOM de Seguinded Rm Peak 300 2.0 5,272 7,027 348 7,41 0 0 0 -4,698 2.091 0.7 0. FB Area 21 Cockers Rm Peak 307 2.0 4,694 2.0 6,404 2.0 0 0 -4,698 2.0 1 0.7 0. FB Area 22 CECOM Mantenimiento Rm Peak 303 2.0 2.0 5,272 7,027 348 7,41 0 0 0 -4,698 2.0 1 1,499 348 4.3 4. FB Area 22 CECOM Mantenimiento Rm Peak 303 2.0 2.0 4,474 7,475 2.4 11 19,86 0 0 0 -4,500 2.7 18 4.7 18 18 18 18 18 18 18 18 18 18 18 18 18 | | PB Area 07 Secretaria SM | Rm Peak | 213 | 4.0 | 9,878 | 12,088 | 752 | 23.33 | 0 | 0 | -3,056 | 752 | 4.0 | 4.0 |
| PB Area 10 Pasilio Intentior Rm Peak 733 7.0 15,900 19,867 1,135 10,21 0 0 7,820 11,135 4.6 4, PB Area 11 Testigo Protegicio Rm Peak 139 4.0 5,663 9,100 320 15,14 0 0 0 -1,847 323 139 13, PB Area 12 Justoia Alternativa Rm Peak 139 6.0 6,280 11,538 323 15,60 0 0 0 -1,847 323 139 13, PB Area 13 Bodiega Rm Peak 70 1.0 3,384 3,833 208 19,45 0 0 0 -1,800 208 3,6 3, PB Area 14 Control de soceso Rm Peak 249 5.0 12,103 15,979 997 26,75 0 0 -5,050 997 3,8 3,8 3,8 3,8 3,8 3,8 3,8 3,8 3,8 3,8 | | | Rm Peak | 315 | 12.0 | 9,695 | 20,209 | 433 | 9.07 | 0 | 0 | -4,717 | 433 | 20.8 | 20.8 |
| PB Area 17 Instigo Protegido Rm Peak 139 4.0 5.663 9.160 320 15.14 0 0 0 -1.340 320 9.4 9. PB Area 12 Justicia Alternativa Rm Peak 139 6.0 6.260 11.538 323 15.60 0 0 0 -1.847 323 13.9 13.9 13.9 PB Area 18 Bodega Rm Peak 70 1.0 3.344 3.833 208 19.45 0 0 0 -1.930 208 3.6 3. PB Area 18 Control de acceso Rm Peak 249 5.0 12.103 15.679 997 28.75 0 0 0 -5.050 997 3.8 3. 3. PB Area 14 Control de acceso funcionarios Rm Peak 490 5.0 10.032 14.275 822 8.37 0 0 0 -5.050 997 3.8 3. 3. PB Area 19 Control de acceso funcionarios Rm Peak 490 5.0 7.316 11.568 422 8.37 0 0 0 -6.072 622 6.0 0 6. PB Area 19 Dealiga antifatios Rm Peak 490 5.0 7.316 11.568 422 8.37 0 0 0 -6.072 622 6.0 0 6. PB Area 19 Dealiga antifatios Rm Peak 490 5.0 7.316 11.568 422 8.0 1 0 0 -0.454 422 8.0 8. PB Area 17 Bodega Rm Peak 104 1.0 2.514 3.033 164 10.4 2 0 0 0 1.1.532 104 4.0 4. PB Area 19 COCOM de Seguridad Rm Peak 419 2.0 26.205 26.409 2.091 32.88 0 0 0 4.698 2.091 0.7 0. PB Area 19 COCOM de Seguridad Rm Peak 309 2.0 5.272 7.027 348 7.41 0 0 0 -1.489 348 4.3 4. PB Area 21 Cockers Rm Peak 309 2.0 5.272 7.027 348 7.41 0 0 0 -1.489 348 4.3 4. PB Area 22 COCOM Mantenimiento Rm Peak 309 2.0 5.272 7.027 348 7.41 0 0 0 -2.560 318 4.7 4. PB Area 22 Oeffonsoria Rm Peak 309 3.0 2.0 20.447 21.717 1.028 20.58 0 0 0 -4.6140 1.028 0.9 0 0 PB Area 22 Oeffonsoria Rm Peak 309 3.0 2.0 20.447 21.717 1.028 20.58 0 0 0 -4.540 2.2411 5.0 5 PB Area 24 Cafe Defensoria Rm Peak 57 3.0 4.788 7.399 276 32.10 0 0 0 -7.304 2.411 5.0 6 PB Area 25 Archivo Papeleria Defensoria Rm Peak 57 3.0 4.788 7.399 276 32.10 0 0 0 -4.55 158 4.8 4. PB Area 27 Defensoria Rm Peak 57 3.0 4.788 7.399 276 32.10 0 0 0 -4.55 158 4.8 4. PB Area 29 Definion Processal Rm Peak 57 3.0 4.788 7.399 276 32.10 0 0 0 -4.55 158 4.8 4. PB Area 29 Definion Processal Rm Peak 57 3.0 10.307 21.707 3.0 8.33 165 8.0 0 0 0 -4.55 158 4.8 4. PB Area 29 Definion Processal Rm Peak 157 3.0 10.307 21.707 3.0 8.33 165 8.0 0 0 0 -4.55 158 4.8 4. PB Area 29 Definion Processal Rm Peak 157 3.0 10.307 21.707 3.0 8.33 165 8.0 0 0 0 0 | | PB Area 09 Papeleria | Rm Peak | 83 | 1.0 | 2,086 | 2,963 | 131 | 10.38 | 0 | 0 | -398 | 131 | 5.7 | 5.7 |
| PB Area 12 Justidia Alternativa Rm Peak 138 6.0 6.200 11.538 323 15.60 0 0 -1.847 323 13.9 13. PB Area 13 Bodiaga Rm Peak 70 1.0 3.384 3.833 208 18.45 0 0 0 -1.600 208 3.6 3. PB Area 14 Control de scosso Rm Peak 246 5.0 12.103 15.6979 697 20.76 0 0 -5.000 697 3.8 3. PB Area 15 VestBulos accesso funcionarios Rm Peak 490 5.0 10.032 14.275 6022 8.37 0 0 0 -5.000 697 3.8 3. PB Area 15 VestBulos accesso funcionarios Rm Peak 490 5.0 10.032 14.275 6022 8.37 0 0 0 -6.454 422 8.0 6. 8. PB Area 17 Bodiaga Rm Peak 490 5.0 7.316 11.558 422 5.611 0 0 -6.454 422 8.0 8. PB Area 18 SITE Rm Peak 490 5.0 7.316 11.558 422 5.611 0 0 0 -1.632 164 4.6 4. PB Area 18 SITE Rm Peak 490 5.0 7.316 11.558 422 5.013 40.40 0 0 0 -1.632 164 4.6 4. PB Area 18 SITE Rm Peak 490 5.0 7.316 11.558 422 5.013 40.40 0 0 0 -1.632 164 4.6 4. PB Area 18 SITE Rm Peak 490 5.0 7.316 11.558 422 5.013 40.40 0 0 0 -1.632 164 4.6 4. PB Area 18 SITE Rm Peak 490 5.0 5.015 60.00 6 | | PB Area 10 Pasillo interior | Rm Peak | 733 | 7.0 | 15,990 | 19,857 | 1,135 | 10.21 | 0 | 0 | -7,629 | 1,135 | 4.6 | 4.6 |
| PB Area 13 Bodega Rm Peak 70 1.0 3.384 3.833 208 19.46 0 0 0 -1.930 208 3.6 3. PB Area 14 Cortrol de acceso Rm Peak 246 5.0 12.103 16.979 997 20.75 0 0 0 -5.000 997 3.8 3. 3. PB Area 16 Cortrol de acceso funcionarios Rm Peak 490 5.0 10.032 14.275 622 8.37 0 0 -8.072 622 6.0 3. PB Area 16 Vestibulo acceso funcionarios Rm Peak 490 5.0 10.032 14.275 622 8.37 0 0 -8.072 622 6.0 3. PB Area 17 Bodega Rm Peak 490 5.0 7.316 11.558 422 5.61 0 0 0 -4.645 422 8.9 8. PB Area 18 PB | | PB Area 11 Testigo Protegido | Rm Peak | 139 | 4.0 | 5,653 | 9,160 | 320 | 15.14 | 0 | 0 | -1,340 | 320 | 9.4 | 9.4 |
| PB Area 14 Control de acceso Rm Peak 248 5.0 12,103 15,979 997 28,75 0 0 0 -5,050 997 3.8 3. 3. PB Area 15 VestBulos acceso funcionarios Rm Peak 460 5.0 10,032 14,275 622 8,37 0 0 0 -5,050 997 3.8 3. 3. PB Area 15 VestBulos acceso funcionarios Rm Peak 460 5.0 7,316 11,568 422 8,561 0 0 0 -8,072 622 6.0 6. 8. PB Area 17 Bodega Rm Peak 104 1.0 2,514 3,363 164 104 2 0 0 1 -1,632 104 4.6 4. 8. PB Area 17 Bodega Rm Peak 711 2.0 91,758 22,03 5,013 44,49 0 0 -4,422 8,0 0 PB Area 19 CECOM de Seguridad Rm Peak 419 2.0 25,205 28,499 2,091 32,88 0 0 0 -4,698 2,091 0.7 0. PB Area 19 CECOM de Seguridad Rm Peak 300 2.0 5,272 7,027 348 7,41 0 0 1 -1,439 348 4.3 4. PB Area 20 Coordinación de Seguridad Rm Peak 300 2.0 5,272 7,027 348 7,41 0 0 1 -1,439 348 4.3 4. PB Area 22 CECOM Martenimiento Rm Peak 363 2.0 20,447 2,177 1,028 20,58 0 0 0 -4,614 61,028 0.0 0 0 -2,560 318 4.7 4. PB Area 22 CECOM Martenimiento Rm Peak 809 16.0 37,317 47,475 2,411 1,080 0 0 -7,304 2,411 5.0 0 0 -7,304 2,411 5.0 0 PB Area 23 Cefensoria Rm Peak 57 3.0 4,768 7,369 276 32,10 0 0 -7,304 2,411 5.0 0 5 PB Area 23 Coffico Corromun Rm Peak 53 0 0 0 4,456 18,70 0 0 0 -4,003 2,76 8.2 8. PB Area 27 Expleria Defensoria Rm Peak 153 1.0 2,416 3,204 1158 7,90 0 0 0 -4,003 2,76 8.2 8. PB Area 28 COffician de Corromun Rm Peak 57 3.0 4,768 7,369 276 32,10 0 0 0 -4,003 2,76 8.2 8. PB Area 27 Expleria OCC Commun Rm Peak 153 0 0 0,245 12,007 18 | | PB Area 12 Justicia Alternativa | Rm Peak | 138 | 6.0 | 6,280 | 11,538 | 323 | 15.60 | 0 | 0 | -1,847 | 323 | 13.9 | 13.9 |
| PB Area 15 Vestibulo accesso funcionarios | | PB Area 13 Bodega | Rm Peak | 70 | 1.0 | 3,384 | 3,833 | 208 | 19.45 | 0 | 0 | -1,930 | 208 | 3.6 | 3.6 |
| PB Area 10 Pasillo sanitarios Rm Peak 104 5.0 7.316 11.568 422 5.61 0 0 0 -0.454 422 8.9 8. PB Area 17 Bodega Rm Peak 104 1.0 2.514 3.033 104 10.4 10.4 0 0 0 -1.652 104 4.6 4. PB Area 17 Bodega Rm Peak 110.4 1.0 2.514 3.033 104 104 10.4 0 0 0 -1.652 104 4.6 4. PB Area 17 Bodega Rm Peak 110.5 10.5 10.5 10.5 10.5 10.5 10.5 10. | | PB Area 14 Control de acceso | Rm Peak | 246 | 5.0 | 12,103 | 15,979 | 997 | 26.75 | 0 | 0 | -5,050 | 997 | 3.8 | 3.8 |
| PB Area 17 Bodega Rm Peak 104 1.0 2.514 3.363 1.64 10.42 0 0 0 -1.632 1.64 4.6 4.6 PB Area 18 SITE Rm Peak 711 2.0 91.768 20.25 2.649 2.013 40.49 0 0 0 -6.422 5.013 0.3 0.0 PB Area 10 SICTOM de Seguridad Rm Peak 419 2.0 25.05 2.649 2.019 1.328 0 0 0 -4.689 2.091 0.7 0.0 PB Area 20 Coordinacion de Seguridad Rm Peak 300 2.0 5.272 7.027 348 7.41 0 0 0 -1.489 349 4.3 4.4 PB Area 20 Coordinacion de Seguridad Rm Peak 300 2.0 5.272 7.027 348 7.41 0 0 0 -1.489 349 4.3 4.4 PB Area 20 Coordinacion de Seguridad Rm Peak 300 2.0 5.272 7.027 348 7.41 0 0 0 -4.689 2.018 349 4.3 4.4 PB Area 20 Coordinacion de Seguridad Rm Peak 303 2.0 20.447 21.717 1.628 29.58 0 0 0 -4.149 1.628 0.9 0 0 PB Area 20 Coordinacion Rm Peak 303 2.0 20.447 21.717 1.628 29.58 0 0 0 -4.148 1.628 0.9 0 0 PB Area 20 Coordinacion Rm Peak 57 3.0 4.788 7.399 278 32.10 0 0 -7.304 2.411 5.0 5.5 PB Area 20 Coordinacion Rm Peak 57 3.0 4.788 7.399 278 32.10 0 0 -4.023 2.78 2.78 BP Area 20 Coordinacion Rm Peak 57 3.0 4.788 7.399 278 32.10 0 0 -4.023 2.78 8.2 8 PB Area 20 Archivo Papeleria Defensoria Rm Peak 132 1.0 2.416 3.204 1158 7.90 0 0 -4.355 1158 4.8 4.9 PB Area 20 Cofficions Corr Comun Rm Peak 255 3.0 9.425 12.057 630 18.27 0 0 -4.699 630 3.6 3.8 PB Area 27 Papeleria OCC Comun Rm Peak 157 3.0 1.005 2.782 116 13.52 0 0 0 -3.75 116 6.4 6. PB Area 29 Policia Processal Rm Peak 127 3.0 7.978 9.838 155 2.789 0 0 0 -4.575 155 4.4 8. PB Area 30 PGR Rm Peak 127 3.0 7.978 9.838 155 2.789 0 0 0 -4.575 155 4.4 8. PB Area 30 PGR Rm Peak 127 1.0 2.385 3.03 16.50 8.06 0 0 -4.32 1.55 4.8 9 PB Area 30 Colicina Rm Peak 127 1.0 2.385 3.03 16.50 8.06 0 0 -4.32 1.55 4.8 9 PB Area 30 Colicina Rm Peak 173 1.0 2.015 2.385 3.185 1.005 3.185 0.0 0 0 -4.32 1.55 4.8 9 PB Area 30 Colicina Rm Peak 127 3.0 2.015 2.385 3.185 1.005 3.185 0.0 0 0 -4.32 1.55 4.8 9 PB Area 30 Colicina Rm Peak 127 3.0 2.015 2.385 3.185 1.005 0 0 0 -4.32 1.55 4.8 9 PB Area 30 Colicina Rm Peak 127 3.0 2.015 2.385 3.185 1.005 0 0 0 -3.005 1.55 5.8 6.0 0 0 -3.005 1.55 5.8 6.0 0 0 -3.005 1.55 5.8 6.0 0 0 -3.005 1. | | PB Area 15 Vestibulo acceso funcionarios | Rm Peak | 490 | 5.0 | 10,032 | 14,275 | 622 | 8.37 | 0 | 0 | -8,072 | 622 | 6.0 | 6.0 |
| PB Area 18 SITE | | PB Area 16 Pasillo sanitarios | Rm Peak | 495 | 5.0 | 7,316 | 11,558 | 422 | 5.61 | 0 | 0 | -9,454 | 422 | 8.9 | 8.9 |
| PB Area 10 CECOM de Seguridad Rm Peak 419 2.0 26.205 26.409 2.01 32.88 0 0 0 4.689 2.091 0.7 0. PB Area 21 Coolombiación de Seguridad Rm Peak 309 2.0 5.272 7.0348 7.41 0 0 0 -1.489 348 4.3 4. PB Area 21 Coolombiación de Seguridad Rm Peak 137 2.0 4.694 6.335 318 15.29 0 0 0 -2.560 318 4.7 4. PB Area 21 COOLOM Martenimiento Rm Peak 303 2.0 20.447 21.717 1.082 26.58 0 0 0 4.4140 1.628 0.0 0 0 PB Area 22 CECOM Martenimiento Rm Peak 800 16.0 37.317 47.475 2.411 1.080 0 0 0 -7.304 2.411 5.0 5 PB Area 22 CECOM Martenimiento Rm Peak 800 16.0 37.317 47.475 2.411 1.080 0 0 0 -7.304 2.411 5.0 5 PB Area 24 Cafe Defensoria Rm Peak 57 3.0 4.788 7.399 276 32.10 0 0 0 -1.023 276 8.2 8. PB Area 25 Archivo Papelería Defensoria Rm Peak 132 1.0 2.416 3.204 1158 7.90 0 0 -4.455 158 4.8 4. PB Area 26 Oficinia de Corr Comun Rm Peak 256 3.0 9.425 12.057 630 16.27 0 0 -1.609 630 3.6 3. PB Area 27 Espelería OCC Rm Peak 157 1.0 1.005 2.782 110 13.52 0 0 0 -3.75 110 6.4 6. PB Area 29 Policia Procesal Rm Peak 122 3.0 7.978 9.883 515 27.89 0 0 0 -1.575 515 4.4 4. PB Area 30 PGR Rm Peak 123 3.0 6.109 8.104 386 22.39 0 0 0 -1.575 515 4.4 4. PB Area 30 PGR Rm Peak 173 1.0 2.015 2.385 3.05 10 0 0 -3.885 125 6.5 6. PB Area 32 Vestionia Rm Peak 173 1.0 2.015 2.385 3.05 10 0 0 -3.885 125 6.0 6. PB Area 32 Vestionia Rm Peak 173 1.0 2.015 2.385 3.05 10 0 0 -3.885 125 6.0 6. FB Area 32 Vestionia Rm Peak 173 1.0 2.015 2.385 3.05 1.03 4.88 0 0 0 -3.885 125 6.0 6. FB Area 32 Vestionia Rm Peak 174 4.0 10.085 3.1368 1.003 4.88 0 0 0 -3.805 147 20.3 20. PB Area 32 Vestionia Rm Peak 174 4.0 10.085 3.1368 1.003 4.88 0 0 0 -3.805 147 20.3 20. PB Area 32 Vestionia Archivola Access Publica Rm Peak 174 4.0 10.085 3.1368 1.003 4.88 0 0 0 -3.805 147 20.3 20. PB Area 32 Vestionia Archivola Access Publica Rm Peak 174 4.0 10.085 3.1368 1.003 4.88 0 0 0 -3.805 147 20.3 20. PB Area 32 Vestionia Archivola Access Publica Rm Peak 174 4.0 10.085 3.1368 1.003 4.000 0 0 -3.805 147 20.3 20. PB Area 32 Vestionia Archivola Access Publica Rm Peak 174 4.0 10.085 3.1368 1.003 4.00 | | PB Area 17 Bodega | Rm Peak | 104 | 1.0 | 2,514 | 3,363 | 164 | 10.42 | 0 | 0 | -1,632 | 164 | 4.6 | 4.6 |
| PB Area 2D Coordinacion de Seguridad Rm Peak 309 2.0 6.272 7.027 348 7.41 0 0 1.1489 348 4.3 4. PB Area 2D Lockers Rm Peak 137 2.0 4.964 6.335 318 15.29 0 0 2.2560 318 4.7 4. PB Area 2D CECOM Mantenimiento Rm Peak 363 2.0 20.447 21,717 1.023 20.58 0 0 0 4.1480 1.028 0.0 0 PB Area 2D GEORGAN Mantenimiento Rm Peak 809 16.0 37,317 47,475 2.411 19.06 0 0 0 7.304 2.411 5.0 5. PB Area 2D Gefensoria Rm Peak 57 3.0 4,708 7.309 276 32.10 0 0 -1,023 2276 8.2 8. PB Area 2D Gefensoria Rm Peak 132 1.0 2.416 3.204 158 7.00 0 0 -4.355 158 4.8 4. PB Area 2D Officine de Corr Comun Rm Peak 153 1.0 2.416 3.204 158 7.00 0 0 -4.355 158 4.8 4. PB Area 2D Officine de Corr Comun Rm Peak 57 1.0 1,005 2.782 110 13.52 0 0 -375 116 6.4 6. PB Area 2D Policia Processal Rm Peak 173 13.0 10.307 21.700 834 18.82 0 0 -375 116 6.4 6. PB Area 3D PGR Rm 2D Policia Processal Rm Peak 122 3.0 7,078 9.83 515 27.86 0 0 -6.644 534 18.3 18. PB Area 3D PGR Rm Peak 122 3.0 7,078 9.83 515 27.86 0 0 -1,575 515 4.4 Rm PB Area 3D PGR Rm Peak 122 3.0 7,078 9.83 515 27.86 0 0 -1,575 515 4.4 Rm PB Area 3D PGR Rm Peak 122 3.0 7,078 9.83 515 27.86 0 0 -1,575 515 4.4 Rm PB Area 3D PGR Rm Peak 122 3.0 7,078 9.83 515 27.86 0 0 -1,575 515 4.4 Rm PB Area 3D PGR Rm Peak 122 3.0 7,078 9.83 515 27.86 0 0 -1,575 515 4.4 Rm PB Area 3D PGR Rm Peak 127 1.0 2.385 3.253 155 8.05 0 0 -1,351 385 5.8 5. PB Area 3D Cficina Rm Peak 124 1.0 2.385 3.253 155 8.05 0 0 -1,351 385 5.8 5. PB Area 3D Cficina Rm Peak 1424 1.0 10.85 3158 1.05 0 0 0 -3.88 125 6.0 6. PB Area 3D Cficina Rm Peak 1434 14.0 10.85 31.383 1.053 4.80 0 0 0 -3.605 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1. | | PB Area 18 SITE | Rm Peak | 711 | 2.0 | 91,758 | 92,923 | 5,013 | 46.49 | 0 | 0 | -6,422 | 5,013 | 0.3 | 0.3 |
| PB Area 21 Lockers Rm Peak 137 2.0 4,964 6,335 318 15,29 0 0 0 -2,560 318 4.7 4. PB Area 22 CECOM Mantenimiento Rm Peak 363 2.0 20,447 21,717 1,028 29,58 0 0 0 -4,140 1,628 0,0 0 0 PB Area 22 CECOM Mantenimiento Rm Peak 360 16.0 37,317 47,475 2,411 1,060 0 0 -7,304 2,411 5,0 0 0 PB Area 22 Oefensoria Rm Peak 67 3.0 4,768 7,399 276 32,10 0 0 0 -1,023 276 8,2 8, PB Area 24 Cafe Defensoria Rm Peak 132 1,0 2,416 3,294 158 7,90 0 0 -435 158 4.8 4. PB Area 26 Officina de Corr Comun Rm Peak 255 3,0 8,425 12,067 830 16,27 0 0 0 -435 158 4.8 4. PB Area 27 Papeleria OCC Rm Peak 57 1,0 1,005 2,782 1116 13,52 0 0 0 -375 116 8,4 8 8. PB Area 29 Policia Processal Rm Peak 167 13,0 10,307 21,700 594 18,8 2 0 0 -375 116 8,4 8 8. PB Area 29 Policia Processal Rm Peak 173 3,0 7,978 9,883 515 27,80 0 0 -1,575 515 4,4 4. PB Area 30 PGR Rm Peak 173 3,0 6,169 8,104 386 22,30 0 0 -1,575 515 4,4 4. PB Area 30 PGR Rm Peak 173 1,0 2,015 2,385 10,00 0 0 -432 155 4,8 5. PB Area 32 Officina Rm Peak 173 1,0 2,015 2,385 155 2,380 0 0 0 -432 155 4,8 5. PB Area 32 Officina Rm Peak 173 1,0 2,015 2,385 1,033 165 8,05 0 0 -432 155 4,8 5. PB Area 32 Officina Rm Peak 173 1,0 2,015 2,385 1,033 1,034 0 0 0 -388 1,035 1,03 3,05 6,05 PB Area 32 Vestbulo de Acceso Publico Rm Peak 1,44 14,0 19,085 1,386 1,093 4,88 0 0 0 -3,805 147 20,3 20,00 PB Area 34 Vestbulo de Acceso Publico Rm Peak 1,44 14,0 19,085 1,386 1,093 4,88 0 0 0 -3,805 147 20,3 20,00 PB Area 34 Vestbulo de Acceso Publico Rm Peak 1,44 14,0 19,085 1,386 1,093 4,88 0 0 0 -3,805 147 20,3 20,00 PB Area 34 Vestbulo de Acceso Publico Rm Peak 1,44 14,0 19,085 1,386 1,093 4,88 0 0 0 -3,805 147 20,3 20,00 PB Area 34 Vestbulo de Acceso Publico Rm Peak 1,44 14,0 19,085 1,386 1,093 4,88 0 0 0 -3,805 147 20,3 20,00 PB Area 34 Vestbulo de Acceso Publico Rm Peak 1,44 14,0 19,085 1,386 1,093 4,88 0 0 0 -3,805 147 20,3 20,00 PB Area 34 Vestbulo de Acceso Publico Rm Peak 1,44 14,0 19,085 1,386 1,093 4,88 0 0 0 -3,805 147 20,3 20,00 PB Area 34 Vestbulo de Acceso Publico Rm Peak 1,44 14,0 19,085 1,386 1,093 4,88 | | PB Area 19 CECOM de Seguridad | Rm Peak | 419 | 2.0 | 25,205 | 28,499 | 2,091 | 32.88 | 0 | 0 | -4,698 | 2,091 | 0.7 | 0.7 |
| PB Area 22 CECOM Manthenimiento Rm Peak 383 2.0 20.447 21.717 1,828 29.58 0 0 0 -4.146 1,828 0.0 0 0 PB Area 22 Defensoria Rm Peak 57 3.0 4,768 7,309 276 32.10 0 0 -7.304 2.411 5.0 5 5 PB Area 23 Defensoria Rm Peak 57 3.0 4,768 7,309 276 32.10 0 0 0 -4.023 276 32.2 6 5 5 PB Area 25 Archivo Papeleria Defensoria Rm Peak 132 1.0 2.416 3.224 1158 7,90 0 0 0 -4.35 1158 4.8 4.8 4.9 PB Area 26 Archivo Papeleria Defensoria Rm Peak 132 1.0 2.416 3.224 1158 7,90 0 0 0 -4.35 1158 4.8 4.8 4.9 PB Area 27 Papeleria OCC Comun Rm Peak 255 3.0 9,425 12.057 630 116.27 0 0 -1,699 630 3.6 4.8 4.9 PB Area 27 Papeleria OCC Rm Peak 57 1.0 1,605 2,782 110 13.52 0 0 0 -3.75 116 6.4 6. PB Area 28 Sala de Videoconferencias Rm Peak 187 13.0 10.307 21.700 594 18.82 0 0 0 -6.644 54 18.3 18. PB Area 30 PGR Rm Peak 122 3.0 7,787 9,893 515 27.99 0 0 1.575 515 4.4 6. PB Area 30 PGR Rm Peak 132 3.0 6,199 8,104 385 22.39 0 0 0 -1,351 385 5.8 5. PB Area 30 Officina Rm Peak 127 1.0 2.385 3.03 165 8.06 0 0 -432 155 4.8 4. PB Area 30 Officina Rm Peak 127 1.0 2.385 3.03 165 2.39 10 0 0 -388 125 6.0 6. 6. PB Area 30 Officina Rm Peak 147 1.0 2.385 3.05 10.05 11.32 0 0 0 -3.888 125 6.0 6. 6. PB Area 30 Officina Rm Peak 147 1.0 2.385 3.05 11.00 1.005 3.1385 1.003 4.8 0 0 0 -3.605 11.003 7.005 7.0 | | PB Area 20 Coordinacion de Seguridad | Rm Peak | 309 | 2.0 | 5,272 | 7,027 | 348 | 7.41 | 0 | 0 | -1,489 | 348 | 4.3 | 4.3 |
| PB Area 23 Defensoria Rm Peak 809 18.0 37.317 47.475 2.411 19.88 0 0 0 -7.304 2.411 5.0 5. 5. PB Area 24 Cafe Defensoria Rm Peak 57 3.0 4.788 7.399 278 32.10 0 0 0 -1.023 278 8.2 8. PB Area 26 Officina de Corr Comun Rm Peak 255 3.0 9.425 12.057 830 18.27 0 0 0 -4.55 188 4.8 RP B Area 26 Officina de Corr Comun Rm Peak 255 3.0 9.425 12.057 830 18.27 0 0 0 -1.609 630 3.8 3. PB Area 27 Papieleria OCC Rm Peak 57 1.0 1.005 2.782 1116 13.52 0 0 -3.75 116 6.4 6. PB Area 28 Sala de Videoconferencias Rm Peak 187 13.0 10.307 2.1700 534 18.82 0 0 -6.644 534 18.3 18. PB Area 29 Policia Procesal Rm Peak 122 3.0 7.978 9.883 515 27.80 0 0 -1.575 515 4.4 4. PB Area 30 PGR Rm Peak 113 3.0 6.109 8.104 385 22.90 0 0 -1.575 515 4.4 4. PB Area 30 PGR Rm Peak 127 1.0 2.385 3.269 155 8.05 0 0 -4.321 155 4.8 4. PB Area 30 Officina Rm Peak 127 1.0 2.385 3.269 155 8.05 0 0 -4.832 155 4.8 4. PB Area 30 Victina Rm Peak 127 1.0 2.015 2.892 125 11.32 0 0 0 -3.88 125 6.0 6. PB Area 30 Vestibulo de Acceso Publico Rm Peak 14.44 1.0 19.055 3.1.368 1.003 4.88 0 0 0 -3.605 147 20.3 20. PB Area 31 Vestibulo de Acceso Publico Rm Peak 14.94 14.0 19.055 3.1.368 1.003 4.88 0 0 0 -3.605 147 20.3 20. | | PB Area 21 Lockers | Rm Peak | 137 | 2.0 | 4,954 | 6,335 | 318 | 15.29 | 0 | 0 | -2,560 | 318 | 4.7 | 4.7 |
| PB Area 24 Cafe Defensoria Rm Peak 57 3.0 4,768 7,399 276 32.10 0 0 -1,023 276 8.2 8. PB Area 26 Officina de Cort Cortum Rm Peak 132 1.0 2.416 3.224 185 7,90 0 0 0 -4,35 198 4.8 4. PB Area 26 Officina de Cort Cortum Rm Peak 256 3.0 9,425 12,067 630 18.27 0 0 0 -4,55 198 4.8 4. PB Area 27 Expeleria OCC Rm Peak 157 1.0 1,005 2,782 1116 13.52 0 0 -3,75 116 6.4 6. PB Area 28 Sala de Videoconferencias Rm Peak 157 1.0 1,005 2,782 1116 13.52 0 0 -3,75 116 6.4 6. PB Area 29 Policia Proceasi Rm Peak 157 1.0 1,005 2,782 116 18.2 0 0 -4,644 534 18.3 18. PB Area 29 Policia Proceasi Rm Peak 122 3.0 7,978 9,883 515 2,786 0 0 -1,575 515 4.4 4. PB Area 30 PGR Rm Peak 113 3.0 6,199 8,104 385 22.39 0 0 1 -1,351 385 5.8 5. PB Area 31 Officina Rm Peak 127 1.0 2,385 3,203 165 8.05 0 0 -4,322 155 4.8 5. PB Area 32 Officina Rm Peak 173 1.0 2,015 2,882 125 11,32 0 0 3 -3,888 125 6.0 6 6. PB Area 32 Vestbulo de Acceso Publico Rm Peak 1,444 14.0 19,085 31,388 1,093 4,88 0 0 0 -3,805 147 20.3 20. PB Area 34 Vestbulo de Acceso Publico Rm Peak 1,484 14.0 19,085 31,388 1,093 4,88 0 0 0 -3,805 147 20.3 20. PB Area 34 Vestbulo de Acceso Publico Rm Peak 1,484 14.0 19,085 31,388 1,093 4,88 0 0 0 -3,805 147 20.3 20. | | PB Area 22 CECOM Mantenimiento | Rm Peak | 363 | 2.0 | 20,447 | 21,717 | 1,628 | 29.58 | 0 | 0 | -4,148 | 1,628 | 0.9 | 0.9 |
| PB Area 25 Archivo Papeleria Defensoria Rm Peak 132 1.0 2.416 3.294 158 7.90 0 0 0 .435 158 4.8 4. PB Area 26 Officina de Corr Comun Rm Peak 255 3.0 9.425 11.0657 630 16.27 0 0 0 .1.699 630 3.6 3. PB Area 27 Papeleria OCC Rm Peak 57 1.0 1.905 2.782 110 13.52 0 0 .375 110 6.4 6. PB Area 28 Salia de Videoconferencias Rm Peak 187 13.0 10.307 21.700 594 18.82 0 0 .0 -6.644 534 18.3 18. PB Area 29 Policia Procesal Rm Peak 122 3.0 7,978 9.893 516 27.89 0 0 0 -1.575 515 4.4 4. PB Area 30 PGR Rm Peak 113 3.0 6.199 8.104 385 22.39 0 0 .1.351 385 5.8 FB Area 31 Officina Rm Peak 127 1.0 2.385 3.263 155 8.05 0 0 .432 155 4.8 4. PB Area 32 Officina Rm Peak 173 1.0 2.015 2.882 125 11.32 0 0 .388 125 6.0 6. PB Area 33 Vestibulo de Acceso Publico Rm Peak 1,484 14.0 19.085 31.358 1.003 4.88 0 0 0 -8.022 1.003 9.6 6.0 9. PB Area 34 Vestibulo de Acceso Publico Rm Peak 173 4.0 3.255 6.769 147 5.62 0 0 -3.805 147 20.3 20. | | PB Area 23 Defensoria | Rm Peak | 809 | 16.0 | 37,317 | 47,475 | 2,411 | 19.66 | 0 | 0 | -7,304 | 2,411 | 5.0 | 5.0 |
| PB Area 20 Oficina de Corr Comun Rm Peak 255 3.0 9,425 12.057 830 16.27 0 0 -1,689 630 3.6 3. PB Area 27 Expedients OCC Rm Peak 157 1.0 1,005 2.762 110 13.52 0 0 -375 110 6.4 6. PB Area 28 Saile de Videoconferencias Rm Peak 157 13.0 10.307 2,1700 534 18.82 0 0 -6,644 534 18.3 18. PB Area 20 Policia Processal Rm Peak 1122 3.0 7,978 9,883 515 27.80 0 0 -1,575 515 4.4 4. PB Area 30 PGR Rm Peak 113 3.0 6,109 8,104 385 22.30 0 0 0 -1,575 515 4.4 4. PB Area 31 Oficina Rm Peak 127 1.0 2,385 3,203 155 8.05 0 0 -432 155 4.8 5. PB Area 32 Oficina Rm Peak 73 1.0 2,015 2,882 125 11,32 0 0 -388 125 6.0 6. PB Area 32 Oficina Rm Peak 14,44 4.0 19,055 31,386 1,003 4.80 0 0 -3,805 127 9.0 9. PB Area 34 Vestbulo de Acceso Publico Rm Peak 14,84 4.0 19,055 31,386 1,003 4.80 0 0 -3,805 147 20.3 20. PB Area 34 Vestbulo de Acceso Publico Rm Peak 173 4.0 3,255 6,769 147 5.62 0 0 -3,805 147 20.3 20. | | PB Area 24 Cafe Defensoria | Rm Peak | 57 | 3.0 | 4,768 | 7,399 | 276 | 32.10 | 0 | 0 | -1,023 | 276 | 8.2 | 8.2 |
| PB Area 27 Papeleria OCC Rm Peak 57 1.0 1,905 2.782 116 13.52 0 0 3.375 116 6.4 6. 6 PB Area 28 Palada Videoconferencias Rm Peak 127 3.0 10,307 21,700 534 18.2 0 0 0 -6,644 54 18.3 18. 6 PB Area 29 Policia Procesal Rm Peak 122 3.0 7,778 0,893 515 27,89 0 0 0 -1,575 515 4.4 18. 6 PB Area 30 PGR Rm Peak 113 3.0 6,199 8,104 385 22,39 0 0 0 -1,351 385 5.8 5. 7 PB Area 30 Officina Rm Peak 127 1.0 2,385 3,283 155 8,05 0 0 0 -432 155 48. 6 PB Area 32 Officina Rm Peak 73 1.0 2,015 2,892 125 11,32 0 0 0 3,388 125 6.0 6. 6 PB Area 34 Officina Rm Peak 14,444 14,0 10,085 31,363 1,093 4.80 0 0 0 -6,022 1,093 60 9. PB Area 34 Lockers Rm Peak 173 4.0 3,255 6,769 147 5,62 0 0 3,360 147 20.3 20. | | PB Area 25 Archivo Papeleria Defensoria | Rm Peak | 132 | 1.0 | 2,416 | 3,294 | 158 | 7.90 | 0 | 0 | -435 | 158 | 4.8 | 4.8 |
| PB Area 32 Netibluo de Acceso Publico Rm Peak Rm R | | PB Area 26 Oficina de Corr Comun | Rm Peak | 255 | 3.0 | 9,425 | 12,057 | 630 | 16.27 | 0 | 0 | -1,669 | 630 | 3.6 | 3.6 |
| PB Area 3Q Policia Procesal Rm Peak 122 3.0 7,978 9,883 515 27,88 0 0 0 -1,575 515 4.4 4. 4. PB Area 3Q PORR Rm Peak 113 3.0 6,199 8,104 385 22,39 0 0 0 -1,351 355 5.8 5. PB Area 3Q Officina Rm Peak 127 1.0 2,385 3,283 155 8,05 0 0 -432 155 4.8 PB Area 3Q Officina Rm Peak 73 1.0 2,015 2,882 125 11,32 0 0 -388 125 6,0 6. PB Area 3Q Officina Rm Peak 14,44 14,0 19,055 3,1358 1,093 4,88 0 0 0 -4,022 1,093 9,6 PB Area 3Q Lockers Rm Peak 14,84 14,0 19,055 3,1358 1,093 4,88 0 0 0 -4,022 1,093 9,6 9 PB Area 3Q Lockers Rm Peak 173 4,0 3,265 6,769 147 5,62 0 0 -3,605 147 23 3 20. | | PB Area 27 Papeleria OCC | Rm Peak | 57 | 1.0 | 1,905 | 2,782 | 116 | 13.52 | 0 | 0 | -375 | 118 | 6.4 | 6.4 |
| PB Area 31 Officine Rm Peak 113 3.0 6,199 8,104 385 22.39 0 0 0 -1,351 385 5.8 5. PB Area 31 Officine Rm Peak 127 1.0 2,385 3.283 165 8.05 0 0 -432 155 4.8 4. 4. PB Area 32 Officine Rm Peak 73 1.0 2,015 2,892 125 11,32 0 0 -388 125 6.0 6.0 6. PB Area 33 Viestibulo de Acceso Publico Rm Peak 1,484 14.0 19,035 31,388 1,003 4.88 0 0 0 -4,022 1,003 9.6 9. PB Area 34 Lockers Rm Peak 173 4.0 3,255 6,759 147 5.62 0 0 0 -3,605 147 20.3 20. | | PB Area 28 Sala de Videoconferencias | Rm Peak | 187 | 13.0 | 10,307 | 21,700 | 534 | 18.82 | 0 | 0 | -6,644 | 534 | 18.3 | 18.3 |
| PB Area 31 Oficina Rm Peak 127 1.0 2.385 3.263 155 8.05 0 0 -432 155 4.8 4. 4. PB Area 32 Oficina Rm Peak 73 1.0 2.015 2.892 125 11.32 0 0 -388 125 6.0 6. 8. PB Area 33 Vestibulo de Acceso Publico Rm Peak 1.484 14.0 19.085 31.358 1.093 4.88 0 0 0 -9.022 1.093 9.6 PB Area 34 Lockers Rm Peak 173 4.0 3.255 6.759 147 5.62 0 0 -3.605 147 23 20. | | PB Area 29 Policia Procesal | Rm Peak | 122 | 3.0 | 7,978 | 9,883 | 515 | 27.88 | 0 | 0 | -1,575 | 515 | 4.4 | 4.4 |
| PB Area 32 Officine Rm Peak 73 1.0 2.015 2.892 1.25 11.32 0 0 3.838 1.25 6.0 6. 8. PB Area 34 Exblud de Acceso Publico Rm Peak 1.484 14.0 10.085 31.363 1.093 4.86 0 0 0 -0.022 1.093 90. 9. PB Area 34 Exblud de Acceso Publico Rm Peak 173 4.0 3.255 6.79 147 5.62 0 0 -3.605 147 2.03 20. | | PB Area 30 PGR | Rm Peak | 113 | 3.0 | 6,199 | 8,104 | 385 | 22.39 | 0 | 0 | -1,351 | 385 | 5.8 | 5.8 |
| PB Area 33 Vestibulo de Acceso Publico Rm Peak 1,484 14.0 19,085 31,368 1,093 4.88 0 0 0 -49,022 1,093 9.6 9. PB Area 34 Lockers Rm Peak 173 4.0 3,265 6,759 147 5.62 0 0 -3,605 147 20,3 20. | | PB Area 31 Oficina | Rm Peak | 127 | 1.0 | 2,385 | 3,263 | 155 | 8.05 | 0 | 0 | -432 | 155 | 4.8 | 4.8 |
| PB Area 33 Vestibulo de Acceso Publico Rm Peak 1.484 14.0 19.085 31.368 1.093 4.88 0 0 -4.022 1.093 9.6 9. PB Area 34 Lockers Rm Peak 173 4.0 3.265 6.759 147 5.62 0 0 -3.605 147 20.3 20. | | PB Area 32 Oficina | Rm Peak | 73 | 1.0 | 2,015 | 2,892 | 125 | 11.32 | 0 | 0 | -388 | 125 | 6.0 | 6.0 |
| PB Area 34 Lookers Rm Peak 173 4.0 3,255 6,759 147 5.62 0 0 -3,605 147 20.3 20. | | PB Area 33 Vestibulo de Acceso Publico | Rm Peak | 1,484 | 14.0 | 19,085 | | 1,093 | 4.88 | 0 | 0 | -9.022 | 1,093 | 9.6 | 9.6 |
| | | PB Area 34 Lockers | | 173 | 4.0 | | | 147 | 5.62 | 0 | 0 | | 147 | 20.3 | 20.3 |
| | | PB Area 35 Control de acceso | Rm Peak | 246 | 5.0 | 12,943 | 16,114 | 997 | 26.77 | 0 | 0 | -5,050 | 997 | 3.8 | 3.8 |

| | | | Floor Area | People | Coil Cooling Sensible | Coil Cooling Total | Space Design Max SA | Air Changes | VAV Minimum SA | VAV Minimum | Main Coil Heating Sensible | Heating Fan Max SA | | cent)A |
|-------|--|-----------|---------------|--------|-----------------------------|--------------------------|---------------------------|----------------|----------------------|----------------|----------------------------------|--------------------------|------|------------|
| stem | Zone Room ** | | ft² | # | Btu/h | Btu/h | cfm | ach/hr | cfm | % | Btu/h | cfm | Clg | Htg |
| | PB Area 36 Acceso Veh imputados | Rm Peak | 1,816 | 30.0 | 57,414 | 80,924 | 1,320 | 4.79 | 0 | 0 | -15,838 | 1,320 | 17.0 | 17.0 |
| | PB Area 37 Comision Nal de Seguridad | Rm Peak | 255 | 5.0 | 9,115 | 13,500 | 508 | 13.10 | 0 | 0 | -5,058 | 508 | 7.4 | 7.4 |
| | PB Area 38 Caseta | Rm Peak | 75 | 2.0 | 6,145 | 7,843 | 310 | 27.23 | 0 | 0 | -2,845 | 310 | 4.8 | 4.8 |
| nta B | aja | Sys Peak | 13,641 | 200.0 | 560,763 | 714,194 | 34,535 | | | | -153,751 | 34,535 | 4.3 | 4.3 |
| nta B | aja | Sys Block | 13,641 | 200.0 | 520,351 | 677,364 | 34,535 | | | | -153,750 | 34,535 | 4.3 | 4.3 |
| erna | tive 2 | | | | | | | | | | | | | |
| | N1 Area 01 Titular | Rm Peak | 243 | 3.0 | 17,790 | 19,732 | 1,300 | 35.21 | 0 | 0 | -7,712 | 1,300 | 1.7 | 1.7 |
| | N1 Area 02 Titular | Rm Peak | 237 | 3.0 | 18,171 | 20,113 | 1,338 | 37.24 | 0 | 0 | -7,228 | 1,338 | 1.7 | 1.7 |
| | N1 Area 03 Titular | Rm Peak | 237 | 3.0 | 18,171 | 20,113 | 1,338 | 37.24 | 0 | 0 | -7,228 | 1,338 | 1.7 | 1.7 |
| | N1 Area 04 Titular | Rm Peak | 237 | 3.0 | 18,171 | 20,113 | 1,338 | 37.24 | 0 | 0 | -7,228 | 1,338 | 1.7 | 1.7 |
| | N1 Area 05 Titular | Rm Peak | 237 | 3.0 | 18,226 | 20,168 | 1,342 | 37.37 | 0 | 0 | -7,225 | 1,342 | 1.7 | 1.7 |
| | N1 Area 06 Cafe | Rm Peak | 134 | 4.0 | 10,933 | 14,069 | 755 | 37.05 | 0 | 0 | -3,668 | 755 | 4.0 | 4.0 |
| | N1 Area 07 Papeleria | Rm Peak | 134 | 1.0 | 8,408 | 9,055 | 643 | 31.55 | 0 | 0 | -2,839 | 643 | 1.2 | 1.2 |
| | N1 Area 08 Secretaria y oficiales | Rm Peak | 542 | 12.0 | 29,850 | 38,616 | 1,989 | 24.21 | 0 | 0 | -13,851 | 1,989 | 4.5 | 4.5 |
| | N1 Area 09 Circulacion Titulares | Rm Peak | 2,094 | 20.0 | 40,548 | 57,508 | 2,493 | 7.85 | 0 | 0 | -31,932 | 2,493 | 6.0 | 6.0 |
| | N1 Area 10 Cafe | Rm Peak | 118 | 4.0 | 5,862 | 9,368 | 333 | 18.65 | 0 | 0 | -2,971 | 333 | 9.0 | 9.0 |
| | N1 Area 11 Papeleria | Rm Peak | 98 | 1.0 | 2,539 | 3,387 | 163 | 11.00 | 0 | 0 | -1,809 | 163 | 4.6 | 4.6 |
| | N1 Area 12 Papeleria | Rm Peak | 168 | 1.0 | 3,269 | 4,117 | 222 | 8.75 | 0 | 0 | -2,884 | 222 | 3.4 | 3.4 |
| | N1 Area 13 Circulacion Juzgado Ejecucion | Rm Peak | 444 | 5.0 | 28,000 | 27,986 | 2,071 | 30.78 | 0 | 0 | -9,928 | 2,071 | 1.8 | 1.8 |
| | N1 Area 14 Testigos de cargo | Rm Peak | 102 | 3.0 | 1,966 | 4,595 | 86 | 5.53 | 0 | 0 | -2,338 | 86 | 26.3 | 26.3 |
| | N1 Area 15 Testigos de descargo | Rm Peak | 102 | 3.0 | 1,966 | 4,595 | 86 | 5.53 | 0 | 0 | -2,338 | 86 | 26.3 | 26.3 |
| | N1 Area 16 Bodega | Rm Peak | 70 | 1.0 | 3,245 | 3,694 | 197 | 18.42 | 0 | 0 | -2,889 | 197 | 3.8 | 3.8 |
| | N1 Area 17 Vestibulo acceso funcionarios | Rm Peak | 451 | 5.0 | 9,405 | 13,645 | 532 | 7.79 | 0 | 0 | -15,737 | 532 | 7.0 | 7.0 |
| | N1 Area 18 Archivo | Rm Peak | 456 | 1.0 | 8,513 | 9,202 | 618 | 8.95 | 0 | 0 | -10,510 | 618 | 1.2 | 1.2 |
| | N1 Area 19 Videograbacion | Rm Peak | 138 | 2.0 | 26,246 | 27,625 | 2,115 | 101.17 | 0 | 0 | -6,058 | 2,115 | 0.7 | 0.7 |
| | N1 Area 20 Pasillo interior | Rm Peak | 1,298 | 12.0 | 23,307 | 32,713 | 1,385 | 7.04 | 0 | 0 | -35,656 | 1,385 | 6.5 | 6.5 |
| | N1 Area 21 Receso Titular | Rm Peak | 99 | 1.0 | 4,341 | 4,975 | 300 | 20.02 | 0 | 0 | -2,180 | 300 | 2.5 | 2.5 |
| | N1 Area 22 Exclusa testigo | Rm Peak | 68 | 1.0 | 1,279 | 2,127 | 71 | 6.91 | 0 | 0 | -2,308 | 71 | 10.5 | 10.5 |
| | N1 Area 23 Exclusa testigo | Rm Peak | 68 | 1.0 | 1,275 | 2,123 | 71 | 6.88 | 0 | 0 | -2,288 | 71 | 10.5 | 10.5 |
| | N1 Area 24 Receso Titular | Rm Peak | 93 | 1.0 | 2,487 | 3,335 | 159 | 11.31 | 0 | 0 | -1,731 | 159 | 4.7 | 4.7 |
| | N1 Area 25 Sala Juicio Oral 1 | Rm Peak | 1,128 | 45.0 | 36,626 | 76,067 | 1,837 | 10.73 | 0 | 0 | -32,127 | 1,837 | 18.4 | 18.4 |
| | N1 Area 26 Sala Juicio Oral 2 | Rm Peak | 1,085 | 45.0 | 37,779 | 77,220 | 1,687 | 10.25 | 0 | 0 | -31,764 | 1,687 | 20.0 | 20.0 |
| | N1 Area 27 Entrevista imputado | Rm Peak | 93 | 2.0 | 3,345 | 4,913 | 210 | 14.82 | 0 | 0 | -2,679 | 210 | 7.1 | 7.1 |
| | N1 Area 28 Resguardo imputado | Rm Peak | 65 | 3.0 | 2,006 | 4,550 | 103 | 10.54 | 0 | 0 | -3,348 | 103 | 21.8 | 21.8 |
| | N1 Area 29 Vestibulo Salas | Rm Peak | 451 | 10.0 | 8,429 | 16,908 | 384 | 5.62 | 0 | 0 | -11,510 | 384 | 19.5 | 19.5 |
| | N1 Area 30 Coordinacion custotios | Rm Peak | 957 | 10.0 | 25,302 | 33,782 | 1,455 | 10.03 | 0 | 0 | -31,768 | 1,455 | 5.2 | 5.2 |
| | N1 Area 31 Entrevista imputado | Rm Peak | 87 | 2.0 | 6,579 | 7,533 | 360 | 27.17 | 0 | 0 | -6,635 | 380 | 4.2 | 4.2 |
| | N1 Area 32 Resguardo imputado | Rm Peak | 52 | 3.0 | 2,050 | 4,594 | 82 | 10.39 | 0 | 0 | -3,048 | 82 | 27.4 | 27.4 |
| ner N | | Sys Peak | 11,785 | 214.0 | 424,083 | 596,542 | 27,065 | | | | -313,405 | 27,065 | 5.9 | 5.9 |
| ner N | ivel | Sys Block | 11,785 | 214.0 | 397,151 | 564,905 | 27,065 | | | | -313,405 | 27,065 | 5.9 | 5.9 |
| | | • | | | | | | | | | | | | |

This report does not display heating only systems.

oject Name: CJPF Celaya faset Name: CJPF CELAYA.TRC

Ejemplo de valores principales a considerar para la selección de equipos.

Room Checksums

PB Area 20 Coordinacion de Seguridad

| | d at Time: | Mo/Hr | 5 / 15 | Mo/Hr: 5 / 17 | | | | | | | ign Co | | | RATURES Cooling Heating | |
|------------------------------|--------------------------------|--------------------------------|-----------------------|----------------------------|----------------------------|----------------------------|----------------------------------|--------------|-----------------------------------|--------------------------------|---------------------|------------------------------|---------------------|--------------------------|-------------------|
| | utside Air: | OADB/WB/HR | 87 / 86 / 2 | | OADB: | 84 | | | OADB: 3 | leating Design 32 | | SADB Ra Plenum | 58.3 76.1 | 7: 6: | 2.1 9.0 |
| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) | Space Sensible Btu/h | Percent Of Total (%) | | | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Of Total | Return Ret/OA Fn MtrTD | 76.1 76.5 0.0 | 6 | 9.0 7.4 0.0 |
| velope Loads | Бшл | Blu/II | Dtu/II | (70) | Btu/II | (70) | Envelope Load | ls | Diu/II | Blu/II | | Fn BldTD | 0.0 | | 0.0 |
| Skylite Solar | 0 | 0 | 0 | 0 : | 0 | 0 | Skylite Solar | | 0 | 0 | 0.00 | Fn Frict | 0.0 | | 0.0 |
| Skylite Cond Roof Cond | 0 | 0 | 0 | 0 | 0 | 0 | Skylite Cond Roof Cond | | 0 | 0 | 0.00 | | | | = |
| Slass Solar | 0 | 0 | 0 | 0: | 0 | 0 | Glass Solar | | 0 | 0 | | ΔΙ | RFLOWS | | |
| 3lass/Door Cond | ō | ō | 0 | 0 : | 0 | 0 | : Glass/Door (| Cond | ō | ō | 0.00 | | Cooling | Hea | tir |
| Vall Cond | 0 | 0 | 0 | 0 : | 0 | 0 | | | 0 | 0 | 0.00 | Diffuser | 348 | nea | 34 |
| Partition/Door Floor | 125 0 | | 125 0 | 0: | 157 0 | 3 | Partition/Doo | or | -575 0 | -575 0 | | Terminal | 348 | | 34 |
| Adjacent Floor | 0 | 0 | 0 | 0: | 0 | 0 | Adjacent Flo | or | 0 | 0 | | Main Fan | 348 | | 34 |
| nfiltration | ő | | ŏ | 0 | ō | ő | Infiltration | | Ö | ō | 0.00 | Sec Fan | 0 | | |
| Sub Total ==> | 125 | 0 | 125 | 2: | 157 | 3 | Sub Total == | :> | -575 | -575 | 38.64 | Nom Vent | 15 | | |
| | | | | | | | | | | | | AHU Vent | 15 | | • |
| ternal Loads | | | | | | | Internal Loads | | | | | Infil | 0 | | |
| ights | 2,112 | 0 | 2,112 | 30 | 2,112 | 40 | Lights | | 0 | 0 | | Min Stop/Rh | 0 | | 34 |
| People Misc | 900 2,389 | 0 | 900 2,389 | 13 34 | 500 2,389 | 9 45 | People Misc | | 0 | 0 | | Return Exhaust | 348 15 | | 34 |
| Sub Total ==> | | 0 | | 77 | | 94 | Sub Total == | | 0 | 0 | | Rm Exh | 0 | | |
| nuo rotar ==> | 5,401 | U | 5,401 | " | 5,001 | 94 | Sub lotal == | - | U | 0 | 0.00 | Auxiliary | 0 | | |
| eiling Load | 105 | -105 | 0 | 0 | 139 | 3 | Ceiling Load | | -97 | 0 | 0.00 | Leakage Dwn | ō | | |
| ntilation Load | 0 | 0 | 1,515 | 22 | 0 | 0 | | | 0 | -519 | | Leakage Ups | 0 | | |
| lj Air Trans Heat | 0 | | 0 | 0 | 0 | 0 | Adj Air Trans F | | 0 | 0 | | | | | |
| humid. Ov Sizing | | | 0 | 0 | _ | | Ov/Undr Sizing Exhaust Heat |) | 0 | 0 13 | 0.00 -0.90 | | | | _ |
| //Undr Sizing thaust Heat | 0 | -15 | 0 -15 | 0: | 0 | 0 | : OA Preheat Dit | f | | 13 | | ENGIN | IEERING CI | (S | |
| ip. Fan Heat | | | 0 | 0: | | | RA Preheat Dif | | | 0 | 0.00 | | Cooling | Heati | |
| et. Fan Heat | | 0 | 0 | 0: | | | Additional Reh | | | . 0 | 0.00 | % OA | 4.3 | | 4.3 |
| ıct Heat Pkup | | 0 | 0 | 0 | | | System Plenur | | | -409 0 | | cfm/ft² | 1.12 | 1. | .12 |
| nderfir Sup Ht Pku | ıp | 0 | 0 | 0 | | | Underfir Sup F Supply Air Lea | | | 0 | 0.00 | cfm/ton ft²/ton | 594.25 528.47 | | |
| ipply Air Leakage | | U | 0 | 0 | | | Supply All Lea | kage | | U | 0.00 | Btu/hr-ft² | 22.71 | -A | .81 |
| rand Total ==> | 5,632 | -120 | 7,027 | 100.00 | 5,298 | 100.00 | Grand Total == | > | -672 | -1,489 | 100.00 | No. People | 2 | 7. | - |
| | | COOLING C | OII CELI | ECTION | | | | | AREAS | | ш | EATING COIL | CEL ECTIO | | = |
| | Total Capacity on MBh | | il Airflow cfm | Ente | DB/WB/HR °F gr/lb | Leave °F | DB/WB/HR °F gr/lb | Gro | oss Total | Glass ft ² (%) | п | | Coil Airflow | Ent °F | L |
| ain Clg 0 | 0.6 7.0 | 5.3 | 348 | 76.5 63 | 86.1 | 58.3 5 | 6.3 80.0 | Floor | 309 | | Main Htg | -1.5 | 348 | 67.4 | 72 |
| | 0.0 | 0.0 | | 0.0 | 0.0 | | | Part | 39 | | Aux Htg | 0.0 | | 0.0 | (|
| ot Vent 0 | 0.0 | 0.0 | 0 | 0.0 (| 0.0 | 0.0 | 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 | |
| | | 1 | \ | \ | | | | ExFlr | 0 | | | | | | |
| otal 0 |).6 7.0 | | \ | \ | _ | | | Roof Wall | 0 | | Humidif Opt Vent | 0.0 0.0 | 0 | 0.0 | |
| | R | | \ | | ` | | N. | Ext Door | 0 | 0 0 | Total | -1.5 | U | 0.0 | |
| | - | | - / | $\overline{}$ | <u> </u> | $\overline{}$ | | CAL DOO! | | 0 0 | Iotai | -1.5 | | | _ |
| | \ | | \ | \ | | | | | | | | | | | |
| | | | | ٦\ | | | | ` | | | | | | | |
| calor tot | al en TF | Ry BTU/F | ŀr | $ \ \ $ | \ | | ` | | | | | | | | |
| | | ., | - | 7 / | . \ | | | | | | | | | | |
| | | | | | <u> </u> | | | ` | \ \ | | | | | | |
| | cal | or sensib | le en | BTU/ | Hr | | | | | | | | | | |
| | cal | or sensib | le en | BTU/ | Hr | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | Γ | caudal | de ai | re en ft ³ | /min | | | | | | | |
| | | | | L | | | | , | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

PB Area 01 Juez Administrador

| | C | OOLING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PE | AK | | TEM | PERATURE | S | |
|------------------------------|-----------------|--------------------------------|--------------------------------|------------------------|---------------------|-----------------|----------------------------|----------------------|---------------|-----------------------------------|-----------------|-----------------------------|----------------------------|--------------------------------------|-------------------------|------|--------------|
| F | eaked a Outs | t Time: ide Air: | Mo/H OADB/WB/Hi | łr: 3/18 R: 75/75/1 | 62 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating D | esign) | | SADB Ra Plenum | Cooling 60.7 76.3 | | 71.7 69.0 |
| | s | Space iens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total | | Percent Of Total (%) | | | Space Peak Space Sens Btu/h | | il Peak ot Sens Btu/h | Percent Of Total (%) | Return Ret/OA Fn MtrTD | 76.3 76.3 0.0 | | 69.1 |
| Envelope Load | İs | Dia. | 21311 | Diam | (~) | 21311 | (70) | Envelope L | | 2.0.11 | | | (70) | Fn BldTD | 0.0 | | 0.0 |
| Skylite Solar | | 0 | 0 | 0 | 0; | 0 | 0 | | | 0 | | 0 | 0.00 | Fn Frict | 0.0 | | 0.0 |
| Skylite Cond | | 0 | 0 | 0 | 0; | 0 | 0 | Skylite C | | 0 | | 0 | 0.00 | | | | _ |
| Roof Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Roof Con | | 0 | | 0 | 0.00 | | IRFLOWS | | |
| Glass Solar Glass/Door Co | | 10,154 22 | 0 | 10,154 22 | 52 | 10,154 22 | 59 0 | Glass So Glass/Do | | -348 | | -348 | 0.00 8.92 | A | IRFLOWS | | |
| Wall Cond | ona | 738 | 785 | 1.524 | 8: | 738 | 4 | | | -346 -879 | | -1.828 | 46.86 | | Cooling | He | eatir |
| Partition/Door | | 74 | 700 | 74 | ů: | 74 | ō | | | -659 | | -859 | 16.88 | Diffuser | 1,310 | | 1,31 |
| Floor | | 0 | | , , | 0: | , , | ō | | 2001 | 000 | | -000 | 0.00 | Terminal | 1.310 | | 1.3 |
| Adjacent Floo | r | ŏ | 0 | ŏ | ŏ: | ŏ | ŏ | | Floor | ŏ | | ŏ | | Main Fan | 1,310 | | 1,3 |
| Infiltration | - | ō | - | ō | ō: | ō | ō | | | ō | | ō | 0.00 | Sec Fan | 0 |) | |
| Sub Total ==> | | 10.988 | 785 | 11.774 | 61 | 10.988 | 64 | Sub Total | ==> | -1.886 | | -2.835 | 72.67 | Nom Vent | 23 | | 2 |
| | | , | | | | , | | | | | | | | AHU Vent | 23 | | - 2 |
| Internal Loads | | | | | : | | | Internal Loa | ds | | | | | Infil | -0 | | • |
| Lights | | 1.824 | 0 | 1.824 | 9 | 1.824 | 11 | Lights | | 0 | | 0 | 0.00 | Min Stop/Rh | 0 | | |
| People | | 1,350 | ő | 1,350 | 7: | 750 | 4 | | | ő | | Ö | | Return | 1.310 | | 1.31 |
| Misc | | 3.413 | ő | 3.413 | 18 | 3.413 | 20 | Misc | | ō | | ō | 0.00 | Exhaust | 23 | | 2 |
| Sub Total ==> | | 6.587 | 0 | 6.587 | 34 | 5.987 | 35 | | | 0 | | 0 | 0.00 | Rm Exh | -0 | | |
| Sub rotar | | 0,007 | | 0,007 | 54 | 0,007 | 30 | July rota | | · · | | | 0.00 | Auxiliary | ō | | |
| Ceiling Load | | 112 | -112 | 0 | 0: | 112 | 1 | Ceiling Loa | d | -83 | | 0 | 0.00 | Leakage Dwn | 0 |) | |
| Ventilation Loa | d | 0 | 0 | 1.064 | 5: | 0 | Ó | Ventilation I | oad | 0 | | -778 | 19.94 | Leakage Ups | 0 |) | |
| Adj Air Trans H | leat | ō | | 0 | ō: | ō | ō | Adj Air Tran | s Heat | 0 | | 0 | 0 | | | | |
| Dehumid, Ov S | izina | | | 0 | 0: | | | Ov/Undr Siz | ina | 0 | | 0 | 0.00 | | | | _ |
| Ov/Undr Sizing | | 0 | | ŏ | ŏ: | 0 | 0 | Exhaust He | | | | 20 | -0.52 | ENGI | NEERING C | κs | |
| Exhaust Heat | | _ | -27 | -27 | ō: | _ | | OA Preheat | Diff. | | | 0 | | Litton | | | |
| Sup. Fan Heat | | | | 0 | 0: | | | RA Preheat | Diff. | | | 0 | | | Cooling | Hea | ating |
| Ret. Fan Heat | | | 0 | 0 | 0; | | | Additional F | | | | 0 | | % OA | 1.7 | | 1.7 |
| Duct Heat Pkuj | | | 0 | 0 | 0 | | | System Ple | | | | -309 | 7.91 | cfm/ft² | 4.90 | | 4.90 |
| Underfir Sup H | | | | 0 | 0 | | | Underfir Su | | | | 0 | 0.00 | cfm/ton | 810.59 | | |
| Supply Air Lea | kage | | 0 | 0 | 0 | | | Supply Air I | _eakage | | | 0 | 0.00 | ft²/ton | 165.28 | | |
| Grand Total == | :> | 17,687 | 647 | 19,397 | 100.00 | 17,087 | 100.00 | Grand Total | ==> | -1,969 | | -3,901 | 100.00 | Btu/hr-ft ² No. People | 72.60 3 | -1 | 4.60 |
| | | | COOLING | COIL SELI | CTION | | | | | AREAS | ; | | Н | EATING COIL | SELECTIO | N | = |
| | Tota | al Capacity | | oil Airflow | | DB/WB/HR | | DB/WB/HR | 1 | Gross Total | Glass | | | | Coil Airflow | Ent | |
| | ton | MBh | MBh | cfm | °F° | F gr/lb | °F | °F gr/lb | 1 | | ft ² | (%) | | MBh | cfm | °F | |
| Main Clg | 1.6 | 19.4 | 17.7 | 1.310 | 76.3 62. | 3 80.7 | 60.7 5 | 7.1 79.7 | Floor | 267 | | | Main Htg | -3.9 | 1.310 | 68.4 | 7 |
| Aux Clg | 0.0 | 0.0 | 0.0 | ., | | | | 0.0 | Part | 45 | | | Aux Hta | 0.0 | 0 | 0.0 | |
| Opt Vent | 0.0 | 0.0 | 0.0 | | | | 0.0 | | Int Doo | . 0 | | | Preheat | 0.0 | 0 | 0.0 | |
| Total | 4.0 | 40.4 | | | | | | - 1 | ExFIr Roof | 0 | 0 | 0 | | 0.0 | | 0.0 | |
| rotai | 1.6 | 19.4 | | | | | | | Wall | 393 | 129 | | Humidif Opt Vent | 0.0 | 0 | 0.0 | |
| | | | | | | | | | | | 0 | | | -3.9 | U | 0.0 | |
| | | | | | | | | | Ext Doo | r U | U | U | Total | -3.9 | | | |

Room Checksums

By Trane

| | CO | OLING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL F | PEAK | | TEM | PERATURE | S | |
|--------------------------------|--------------------|---------------------|-----------------------|-------------------------|---------------------|-----------------|---------------------|--------------------------------|----------|--------------------------|---------------|----------|---------------|------------------------------|-----------------------------|------|------------------|
| Pea | ked at ' Outsid | | | Hr: 4/17 IR: 82/82/2 | 06 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating 32 | Design | | SADB Ra Plenum | Cooling 59.8 | | 70. 69. |
| | Sei | Space ns. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Sensible | Percent Of Total | : | | Space Peak Space Sens | | Tot Sens | | Return Ret/OA Fn MtrTD | 76.4 76.4 76.5 0.0 | | 69. 68. 0. |
| nvelope Loads | | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | : : Envelope L | ande | Btu/h | | Btu/h | (%) | Fn BldTD | 0.0 | | Č |
| Skylite Solar | | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | 0 | 0.00 | Fn Frict | 0.0 | | i |
| Skylite Cond | | ō | ō | ō | 0: | ō | ō | | | ō | | ō | 0.00 | | | | _ |
| Roof Cond | | ŏ | ŏ | ŏ | ő: | ŏ | ŏ | | | ŏ | | ŏ | | | | | _ |
| Glass Solar | | 32.028 | 0 | 32.028 | 34 | 34.424 | 44 | Glass So | lar | 0 | | 0 | 0.00 | ll AI | RFLOWS | | |
| Glass/Door Cond | i | 217 | ō | 217 | 0 | 29 | 0 | Glass/Do | or Cond | -1.044 | | -1.044 | 7.42 | | 0 | | |
| Wall Cond | | 163 | 1.088 | 1.252 | 1: | 209 | 0 | : Wall Con | d | -229 | | -1.798 | 12.77 | | Cooling | | |
| Partition/Door | | 444 | | 444 | 0: | 207 | 0 | : Partition/ | Door | -1,866 | | -1,886 | 13.26 | Diffuser | 5,681 | | 5 |
| Floor | | 0 | | 0 | 0: | 0 | 0 | Floor | | | | . 0 | 0.00 | Terminal | 5,681 | | 5 |
| Adjacent Floor | | 0 | 0 | 0 | 0: | 0 | 0 | : Adjacent | Floor | 0 | | 0 | 0.00 | Main Fan | 5,681 | | 5 |
| Infiltration | | 0 | | 0 | 0: | 0 | 0 | Infiltration | 1 | 0 | | 0 | 0.00 | Sec Fan | 0 |) | |
| Sub Total ==> | | 32.852 | 1.088 | 33.940 | 36 | 34.868 | 44 | : Sub Tota | / ==> | -3.140 | | -4.709 | 33.45 | Nom Vent | 158 | | |
| | | | | | | | | | | | | | | AHU Vent | 158 | | |
| ternal Loads | | | | | : | | | Internal Loa | ids | | | | | Infil | | | |
| Lights | | 11.762 | 0 | 11.762 | 13 | 11.762 | 15 | | | 0 | | 0 | 0.00 | Min Stop/Rh | 0 | | |
| Lights People | | 9.450 | ö | 9.450 | 10 | 5,250 | 7 | | | ä | | 0 | 0.00 | Return | 5.681 | | 5. |
| Misc | | 25.768 | 0 | 25,768 | 28 | 25.768 | 33 | | | | | 0 | | Exhaust | 158 | | ٠, |
| | | | _ | | | | | | | _ | | _ | | Rm Exh | 108 | | |
| Sub Total ==> | | 46,980 | 0 | 46,980 | 50 | 42,780 | 55 | Sub Tota | /==> | 0 | | 0 | 0.00 | Auxiliary | 0 | | |
| -111 | | | | _ | _: | | | | | -538 | | 0 | 0.00 | | 0 | | |
| eiling Load entilation Load | | 752 | -752 | 0 | 0 | 720 | | Ceiling Loa Ventilation | | -038 | | -5.445 | 38.69 | Leakage Dwn | | | |
| | | 0 | 0 | 12,460 | 13 | 0 | 0 | : Adi Air Tran | | | | -0,440 | | Leakage Ups | 0 | | |
| dj Air Trans Hea | | 0 | | 0 | 0 | 0 | U | | | 0 | | - | 0 | | | | |
| ehumid. Ov Sizi | ng | | | 0 | 0: | | | Ov/Undr Siz | | 0 | | 0 | 0.00 | | | | _ |
| v/Undr Sizing | | 0 | | . 0 | 0; | 0 | 0 | Exhaust He | | | | 141 | -1.00 | ENGIN | IEERING C | KS | |
| xhaust Heat | | | -197 | -197 | 0: | | | : OA Preheat | | | | 0 | 0.00 | | Cooling | Hea | -4 |
| up. Fan Heat | | | _ | 0 | 0; | | | RA Preheat | | | | 0 | 0.00 | % OA | 2.8 | nea | au |
| et. Fan Heat | | | 0 | 0 | 0; | | | : Additional I : System Ple | | | | -4.083 | 0.00 28.86 | cfm/ft² | 3.30 | | 3 |
| uct Heat Pkup | | | 0 | 0 | 0 | | | | | | | -4,003 | | | | | ٥ |
| nderfir Sup Ht P | | | | | 0 | | | Underflr Su | | | | 0 | 0.00 | cfm/ton | 731.53 | | |
| upply Air Leaka | ge | | 0 | 0 | 0 | | | Supply Air | Leakage | | | U | 0.00 | ft²/ton | 221.90 | | |
| rand Total ==> | | 80,584 | 139 | 93,183 | 100.00 | 78,368 | 100.00 | Grand Tota | ==> | -3,678 | | -14,075 | 100.00 | Btu/hr-ft² No. People | 54.08 21 | - | -8. |
| | | | COOLING | COIL SELE | CTION | | | | | AREAS | s | | Н | EATING COIL | SELECTIO | N | = |
| | Total | Capacity | | Coil Airflow | Enter | B/WB/HR | | e DB/WB/HR | | Gross Total | Glass | | | Capacity | Coil Airflow | Ent | |
| | ton | MBh | MBh | cfm | °F °1 | gr/lb | °F | °F gr/lb | | | ft² | (%) | | MBh | cfm | °F | - |
| ain Clo | 7.8 | 93.2 | 77.6 | 5.681 | 76.5 62.3 | 82.8 | 59.8 5 | 7.0 80.8 | Floor | 1.723 | | | Main Hto | -14.1 | 5.681 | 68.0 | |
| ux Clg | 0.0 | 0.0 | 0.0 | 0,001 | | | | 0.0 0.0 | Part | 127 | | | Aux Htg | 0.0 | 0,001 | 0.0 | |
| pt Vent | 0.0 | 0.0 | 0.0 | 0 | | | 0.0 | - 1 | Int Door | 0 | | | Preheat | 0.0 | 0 | 0.0 | |
| pt vent | U.U | 0.0 | 0.0 | u | 0.0 0.0 | 0.0 | 0.0 | 0.0 0.0 | ExFIr | 0 | | | rreneat | 0.0 | 0 | 0.0 | |
| otal | 7.8 | 93.2 | | | | | | | Roof | 0 | 0 | 0 | Humidif | 0.0 | 0 | 0.0 | |
| tai | 7.6 | 83.2 | | | | | | | Wall | 650 | 388 | | | 0.0 | 0 | 0.0 | |
| | | | | | | | | | | | | | Opt Vent | | U | 0.0 | |
| | | | | | | | | | Ext Door | . 0 | 0 | 0 | Total | -14 1 | | | |

PB Area 03 Sala

| | COOLING | COIL PEAK | | | CLG SPACE | PLAN | | | TEATING! | COIL PEAK | | I EIVI | PERATURE | 5 |
|---------------------|------------------------------|-----------------------|------------------------|----------|---------------------|---------------|---------------------|----------|---------------------|----------------------|---------------------|------------------------|-------------------------|-------------------------|
| Pea | ked at Time: Outside Air: | Mo/H OADB/WB/H | Hr: 4/18 R: 79/79/1 | 84 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 60.1 76.4 | Heating 70.4 69.0 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net | Percent | | Percent | | | Space Peak | | k Percent | Return Ret/OA | 76.4 76.5 | 69.0 68.1 |
| | Btu/h | Btu/h | Total Btu/h | Of Total | Sensible Btu/h | Of Total | | | Space Sens Btu/h | Tot Sen | | Fn MtrTD | 0.0 | 0.0 |
| Envelope Loads | Blum | Blum | bium | (%) | DIU/II | (%) | Envelope Le | nade | Blum | Diu | h (%) | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | 0.00 | Fn Frict | 0.0 | 0.0 |
| Skylite Cond | ō | ō | ō | 0 | ō | ō | | | ō | | 0.00 | | | |
| Roof Cond | ő | ŏ | ŏ | 0: | ō | ō | | | ŏ | | 0.00 | | | |
| Glass Solar | 10,590 | 0 | 10,590 | 55 | 10,998 | 66 | Glass So | lar | 0 | | 0.00 | l A | IRFLOWS | |
| Glass/Door Cond | 51 | 0 | 51 | 0 | 17 | 0 | Glass/Do | or Cond | -348 | -34 | 8 13.53 | II | Cooling | Heating |
| Wall Cond | 72 | 484 | 556 | 3: | 62 | 0 | | | -78 | -59 | | D.77 | | |
| Partition/Door | 0 | | 0 | 0: | 0 | 0 | | Door | 0 | | 0.00 | Diffuser | 1,218 | |
| Floor | 0 | | 0 | 0 | 0 | 0 | | | 0 | | 0.00 | Terminal | 1,218 1,218 | |
| Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | 0.00 | Main Fan | -, | ., |
| Infiltration | 0 | | 0 | 0 | 0 | 0 | | | 0 | | 0.00 | Sec Fan | 0 | |
| Sub Total ==> | 10,713 | 484 | 11,197 | 58: | 11,075 | 67 | Sub Total | ==> | -425 | -94 | 7 36.81 | Nom Vent | 30 | |
| | | | | - : | | | | | | | | AHU Vent | 30 | |
| Internal Loads | | | | | | | Internal Loa | ids | | | | Infil | 0 | |
| Lights | 1,020 | 0 | 1,020 | 5 | 1,020 | 6 | Lights | | 0 | | 0.00 | Min Stop/Rh | 0 | |
| People | 1,800 | Ō | 1,800 | 9: | 1,000 | 6 | | | Ö | | 0.00 | Return | 1,218 | |
| Misc | 3,413 | 0 | 3,413 | 18 | 3,413 | 21 | Misc | | 0 | | 0.00 | Exhaust | 30 | |
| Sub Total ==> | 6.233 | 0 | 6.233 | 32 | 5.433 | 33 | Sub Total | ==> | 0 | | 0.00 | Rm Exh | 0 | |
| | -, | _ | | : | -, | | : | | _ | | | Auxiliary | 0 | |
| Ceiling Load | 68 | -68 | 0 | 0 | 62 | 0 | Ceiling Loa | d | -47 | | 0.00 | Leakage Dwn | 0 | |
| Ventilation Load | 0 | 0 | 1.897 | 10: | 0 | 0 | Ventilation I | Load | 0 | -1,03 | 7 40.30 | Leakage Ups | 0 | |
| Adj Air Trans Heat | t o | | . 0 | 0: | 0 | 0 | : Adj Air Tran | s Heat | 0 | | 0 0 | . | | |
| Dehumid, Ov Sizir | 10 | | 0 | 0: | | | Ov/Undr Siz | ina | 0 | | 0.00 | _ | | |
| Ov/Undr Sizing | | | ō | ō: | 0 | 0 | Exhaust He | at | | 2 | 7 -1.05 | ENGIN | IEERING CI | KS |
| Exhaust Heat | | -39 | -39 | 0 | | | OA Preheat | Diff. | | | 0.00 | | | |
| Sup. Fan Heat | | | 0 | 0; | | | : RA Preheat | Diff. | | | 0.00 | 11 | Cooling | Heating |
| Ret. Fan Heat | | 0 | 0 | 0: | | | : Additional F | Reheat | | | 0.00 | % OA | 2.5 | 2.5 |
| Duct Heat Pkup | | 0 | 0 | 0 | | | System Ple | | | -61 | | cfm/ft² | 8.15 | 8.15 |
| Underflr Sup Ht P | | | 0 | 0 | | | Underfir Su | | | | 0.00 | cfm/ton | 757.82 | |
| Supply Air Leakag | je | 0 | 0 | 0 | | | Supply Air l | Leakage | | | 0.00 | ft²/ton | 92.98 | |
| | | | | | | | | | | | | Btu/hr-ft ² | 129.06 | -17.22 |
| Grand Total ==> | 17,014 | 377 | 19,288 | 100.00 | 16,570 | 100.00 | Grand Total | ==> | -471 | -2,57 | 4 100.00 | No. People | 4 | |
| | | COOLING | | | | | | | AREAS | | Н | EATING COIL | | |
| | Total Capacity ton MBh | Sens Cap. C MBh | oil Airflow | | DB/WB/HR F gr/lb | Leave °F | °F gr/lb | | Gross Total | Glass ft² (%) | | Capacity MBh | Coil Airflow cfm | Ent Lv |
| M-i- 01- | | | 4.010 | 70 5 00 | - | 00.4.5 | - 1 | F1 | 440 | , | M-1- 11/ | | | |
| Main Clg Aux Clg | 1.6 19.3 0.0 0.0 | 16.7 0.0 | 1,218 | | | 60.1 5 0.0 | 7.0 80.4 0.0 0.0 | Floor | 149 0 | | Main Htg Aux Htg | -2.6 0.0 | 1,218 | 68.1 70. 0.0 0. |
| | | | | | | | | 1 | _ | | | | _ | |
| Opt Vent | 0.0 0.0 | 0.0 | 0 | 0.0 0 | .0 0.0 | 0.0 | 0.0 0.0 | Int Door | Ō | | Preheat | 0.0 | 0 | 0.0 0. |
| Total | 1.6 19.3 | | | | | | - 1 | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 0. |
| | | | | | | | | Wall | 217 | 129 60 | Opt Vent | 0.0 | 0 | 0.0 0. |
| | | | | | | | | | | 0 0 | | | | |

Room Checksums

By Trane

| | COOLING (| OIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL F | PEAK | | TEM | PERATURE | S | |
|-------------------|-----------------------------|-----------------------|------------------------|------------|----------------------|----------|----------------------|----------|---------------------|--------|-------------------|-----------------|--------------------------|-------------------------|-----------|--------------|
| | ed at Time: Outside Air: | Mo/H OADB/WB/H | Hr: 5/15 R: 87/88/2 | 37 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | | Design | | SADB Ra Plenum | Cooling 59.0 76.1 | | 70.4 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net | Percent | Space | Percent | | | Space Peak | | Coil Peak | | Return Ret/OA | 76.1 76.5 | 6 | 69.0 67.7 |
| | Btu/h | Btu/h | Total Btu/h | Of Total : | Sensible Btu/h | Of Total | | | Space Sens Btu/h | | Tot Sens Btu/h | Of Total (%) | Fn MtrTD | 0.0 | | 0.0 |
| nvelope Loads | Dium | Dium | blum | (%) | DIU/II | (%) | Envelope L | ande | Blum | | Diu/II | (%) | Fn BldTD | 0.0 | | 0.0 |
| Skylite Solar | 0 | 0 | 0 | 0: | 0 | 0 | Skylite S | | 0 | | 0 | 0.00 | Fn Friet | 0.0 | | 0. |
| Skylite Cond | ō | ō | ō | 0: | ō | 0 | Skylite C | | ō | | ō | 0.00 | | | | |
| Roof Cond | ŏ | ŏ | ŏ | ō: | ŏ | ō: | Roof Cor | | ŏ | | ŏ | 0.00 | | | | _ |
| Glass Solar | 0 | 0 | 0 | 0 | 0 | 0 | Glass Sc | lar | 0 | | 0 | 0.00 | AI | RFLOWS | | |
| Glass/Door Cond | Ö | Ö | ō | ō: | ō | 0 | Glass/Do | or Cond | Ō | | ō | 0.00 | | Cooling | He | 40 |
| Wall Cond | 0 | 0 | 0 | 0: | 0 | 0 | Wall Con | d | 0 | | 0 | 0.00 | | | | |
| Partition/Door | 0 | | 0 | 0: | 0 | 0: | Partition/ | Door | 0 | | 0 | 0.00 | Diffuser | 212 | | 2 |
| Floor | 0 | | 0 | 0: | 0 | 0 | Floor | | 0 | | 0 | 0.00 | Terminal | 212 | | 2 |
| Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | | 0 | | 0 | 0.00 | Main Fan | 212 | | 2 |
| Infiltration | 0 | | 0 | 0 | 0 | 0 | Infiltratio | | 0 | | 0 | 0.00 | Sec Fan | 0 | | |
| Sub Total ==> | 0 | 0 | 0 | 0: | 0 | 0 : | Sub Tota | / ==> | 0 | | 0 | 0.00 | Nom Vent | 8 | | |
| | | | | | | | | | | | | | AHU Vent | 8 | | |
| nternal Loads | | | | | | | Internal Lo | ads | | | | | Infil | 0 | | |
| Lights | 1,538 | 0 | 1,538 | 39 | 1,538 | 50 | Lights | | 0 | | 0 | 0.00 | Min Stop/Rh | 0 | | |
| People | 450 | Ō | 450 | 11: | 250 | 8 | People | | ō | | ō | 0.00 | Return | 212 | | - 2 |
| Misc | 1,195 | 0 | 1,195 | 30 | 1,195 | 39 | Misc | | 0 | | 0 | 0.00 | Exhaust | 8 | | |
| Sub Total ==> | 3.183 | 0 | 3.183 | 81 | 2.983 | 97 | Sub Tota | / ==> | 0 | | 0 | 0.00 | Rm Exh | 0 | | |
| | | | | : | | | | | | | | | Auxiliary | 0 | | |
| eiling Load | 77 | -77 | 0 | 0 | 105 | 3 | Ceiling Loa | d | -70 | | 0 | 0.00 | Leakage Dwn | 0 | | |
| entilation Load | 0 | 0 | 757 | 19 | 0 | 0 | Ventilation | Load | 0 | | -259 | 50.58 | Leakage Ups | 0 | | |
| dj Air Trans Heat | 0 | | 0 | 0: | 0 | 0 | Adj Air Trai | is Heat | 0 | | 0 | 0 | | | | |
| ehumid. Ov Sizin | g | | 0 | 0: | | | Ov/Undr Si | zing | 0 | | 0 | 0.00 | | | | = |
| v/Undr Sizing | | | 0 | 0 | 0 | 0 | Exhaust He | at | | | 7 | -1.31 | FNGIN | IEERING C | KS | |
| xhaust Heat | | -7 | -7 | 0 | | | OA Preheat | | | | 0 | 0.00 | | | | |
| up. Fan Heat | | | 0 | 0: | | | RA Preheat | Diff. | | | 0 | 0.00 | II | Cooling | Heat | |
| let. Fan Heat | | 0 | 0 | 0; | | | Additional | | | | . 0 | 0.00 | % OA | 3.5 | | 3 |
| uct Heat Pkup | | 0 | 0 | 0 | | | System Ple | | | | -260 | 50.73 | cfm/ft² | 0.94 | | 0.8 |
| nderfir Sup Ht Pk | | | 0 | 0 | | | Underfir Su | | | | 0 | 0.00 | cfm/ton | 645.59 | | |
| upply Air Leakage | e | 0 | 0 | 0 | | | Supply Air | Leakage | | | 0 | 0.00 | ft²/ton | 687.52 | | |
| Grand Total ==> | 3,259 | -84 | 3,933 | 100.00 | 3,088 | 100.00 | Grand Tota | ==> | -70 | | -513 | 100.00 | Btu/hr-ft* No. People | 17.45 1 | -2 | 2.2 |
| | T | COOLING | | | DOWN TO | | DD4WD4:- | | AREAS | | | Н | EATING COIL | | | Ξ |
| | Total Capacity ton MBh | Sens Cap. C MBh | oil Airflow cfm | | DB/WB/HR °F gr/lb | | DB/WB/HR °F gr/lb | ' | Gross Total | Glas: | (%) | | Capacity MBh | Coil Airflow cfm | Ent °F | |
| lain Clg | 0.3 3.9 | 3.1 | 212 | 76.5 63 | 3.1 84.9 | 59.0 56 | 3.6 80.4 | Floor | 225 | | - 11 | Main Htg | -0.5 | 212 | 67.7 | |
| ux Clg | 0.0 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | Part | 0 | | - 11 | Aux Htg | 0.0 | 0 | 0.0 | |
| • | 0.0 0.0 | 0.0 | 0 | 0.0 0 | 0.0 | 0.0 | 0.0 | Int Door | 0 | | | Preheat | 0.0 | 0 | 0.0 | |
| pt vent | 0.0 | 0.0 | | . 5.6 6 | 0.0 | 3.0 | 2.0 0.0 | ExFir | ŏ | | - 11 | reneat | 0.0 | | 5.0 | |
| otal | 0.3 3.9 | | | | | | | Roof | ő | 0 | 0 1 | Humidif | 0.0 | 0 | 0.0 | |
| | 5.0 | | | | | | | Wall | ŏ | ŏ | | Opt Vent | 0.0 | ŏ | 0.0 | |
| | | | | | | | | | 0 | 0 | 0 | | | | | |

By Trane

PB Area 05 Consultorio Medico

| | COOLIN | IG C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PEAK | | TEM | PERATURE | S | |
|-----------------------------------|-------------------------------|-------------|-----------------------|------------------------|----------|------------------------|------------|--------------------------|----------|-----------------|----------------------|----------------|--------------------------|-------------------------|-----------|----------------------|
| Pe | aked at Time: Outside Air: | | Mo/Hr: OADB/WB/HR: | 12 / 14 73 / 73 / 1 | 49 | Mo/Hr: OADB: | | : | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 61.0 75.2 | | ting 71.3 39.0 |
| | | ace | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil Pea | k Percent | Return | 75.2 | | 39.0 |
| | Sens. + I | | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | Tot Sen | | Ret/OA | 75.1 | | 38.4 |
| | B | tu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | | | Btu/h | Btu | h (%) | Fn MtrTD | 0.0 | | 0.0 |
| Envelope Loads | | 0 | 0 | 0 | 0 | 0 | _ | : Envelope L | | 0 | | 0 0.00 | Fn BldTD Fn Frict | 0.0 | | 0.0 |
| Skylite Solar Skylite Cond | | 0 | 0 | 0 | 0. | | 0 | | | 0 | | 0 0.00 | Fn Frict | 0.0 | | 0.0 |
| Roof Cond | | ŏ | 0 | 0 | 0 | | 0 | | | ĕ | | 0.00 | | | | = |
| Glass Solar | 12.0 | | ō | 12.666 | 62 | 12,688 | 68 | | | ō | | 0.00 | ll a | IRFLOWS | | |
| Glass/Door Cor | | -47 | ō | -47 | 0 | | 0 | : Glass/Do | or Cond | -435 | -43 | 5 11.33 | | Cooling | u. | ating |
| Wall Cond | | 308 | 449 | 757 | 4 | | 2 | | | -669 | -1,62 | | Diffuser | 1.460 | | 1.460 |
| Partition/Door | - | 142 | | -142 | -1 | | -1 | | Door | -594 | -59 | | Terminal | 1,460 | | 1.460 |
| Floor Adiacent Floor | | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | 0 0.00 | Main Fan | 1,460 | | 1,460 |
| Infiltration | | 0 | U | 0 | 0 | | 0 | | | Ü | | 0 0.00 | Sec Fan | ., | | 0 |
| Sub Total ==> | 12. | _ | 449 | 13.235 | 65 | 12.788 | 69 | | | -1.699 | -2.65 | | Nom Vent | 23 | | 23 |
| Sub rotar> | 12, | ,00 | 440 | 10,230 | | 12,700 | 00 | : 000 7010 | | -1,000 | 2,00 | 0 00.10 | AHU Vent | 23 | | 23 |
| Internal Loads | | | | | | | | Internal Loa | ads | | | | Infil | 0 | | 0 |
| Lights | 1.0 | 880 | 0 | 1.660 | 8 | 1.680 | 9 | Lights | | 0 | | 0.00 | Min Stop/Rh | 0 | | ō |
| People | | 350 | ŏ | 1,350 | 7 | | 4 | | | ŏ | | 0.00 | Return | 1,460 | 1 | 1,460 |
| Misc | 3,- | 413 | 0 | 3,413 | 17 | 3,413 | 18 | Misc | | 0 | | 0.00 | Exhaust | 23 | | 23 |
| Sub Total ==> | 6,- | 423 | 0 | 6,423 | 31 | 5,823 | 31 | : Sub Tota | / ==> | 0 | | 0.00 | Rm Exh | 0 | | 0 |
| | | | | | | | | | | | | | Auxiliary | 0 | | 0 |
| Ceiling Load | | 14 | -14 | 0 | 0 | 14 | | Ceiling Loa | | -78 0 | | 0.00 | Leakage Dwn | 0 | | 0 |
| Ventilation Load | | 0 | 0 | 844 | 4: | | 0 | | | 0 | -77 | 8 20.25 0 0 | Leakage Ups | 0 | | 0 |
| Adj Air Trans He | | 0 | | 0 | 0 | 0 | 0 | | | 0 | | 0 0.00 | | | | |
| Dehumid. Ov Siz Ov/Undr Sizing | ing | 0 | | 0 | 0 | 0 | | Ov/Undr Si Exhaust He | | U | | 0 -0.53 | ENGI | UEEDING C | 14.0 | \neg |
| Exhaust Heat | | U | -4 | -4 | 0 | | U | : OA Preheat | | | | 0.00 | ENGI | NEERING C | K5 | |
| Sup. Fan Heat | | | | Ö | 0 | | | : RA Preheat | | | | 0.00 | | Cooling | Heat | |
| Ret. Fan Heat | | | 0 | 0 | 0 | | | Additional | | | | 0.00 | % OA | 1.5 | | 1.5 |
| Duct Heat Pkup | | | 0 | 0 | 0 | | | : System Ple | | | -42 | | cfm/ft² | 6.00 | 6 | 3.00 |
| Underfir Sup Ht | | | _ | 0 | 0 | | | Underfir Su | | | | 0.00 | cfm/ton | 854.74 | | |
| Supply Air Leak | ige | | 0 | 0 | 0 | | | Supply Air | Leakage | | | 0.00 | ft²/ton | 142.36 | | ! |
| Grand Total ==> | 19, | 223 | 432 | 20,498 | 100.00 | 18,623 | 100.00 | Grand Tota | / ==> | -1,775 | -3,84 | 2 100.00 | Btu/hr-ft² No. People | 84.29 3 | -15 | 5.80 |
| | | | COOLING CO | | | | | | | AREAS | | Н | EATING COIL | | | _ |
| | Total Capa ton N | city 1Bh | Sens Cap. Coi MBh | Airflow cfm | | r DB/WB/HR °F gr/lb | Leav °F | e DB/WB/HR °F gr/lb | | Gross Total | Glass ft² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
| Main Clg | 1.7 2 | 0.5 | 19.0 | 1,460 | 75.1 6 | 1.9 80.6 | 61.0 5 | 78.6 | Floor | 243 | | Main Htg | -3.8 | 1,460 | 68.4 | 71.3 |
| Aux Clg | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 0.0 | 0.0 | 0.0 0.0 | Part | 40 | | Aux Htg | 0.0 | . 0 | 0.0 | 0.0 |
| Opt Vent | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 0.0 | 0.0 | 0.0 0.0 | Int Door | r 0 | | Preheat | 0.0 | 0 | 0.0 | 0.0 |
| Total | 1.7 2 | 0.5 | | | | | | | Roof | ō | 0 0 | Humidif | 0.0 | 0 | 0.0 | 0.0 |
| | | | | | | | | | Wall | 397 | 161 41 | Opt Vent | 0.0 | 0 | 0.0 | 0.0 |
| | | | | | | | | | Ext Doo | r 0 | 0 0 | Total | -3.8 | | | |

Room Checksums

| | COC | DLING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL P | EAK | | TEM | PERATURE | S | |
|-----------------------------|-----------------------|--------------------|-----------------------|-----------------------|----------|---------------------|---------------------|----------------------|------------|--------------------------|---------------|-------------|---------------------|--------------------------|-------------------------|-----------|--------------|
| Pe | aked at Ti Outside | | Mo/H OADB/WB/HF | r: 5/15 R: 87/88/2 | 37 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating 32 | Design | | SADB Ra Plenum | Cooling 51.9 78.1 | | ting 89.5 |
| | Sens | Space s. + Lat. | Plenum Sens. + Lat | Net Total | Of Total | Sensible | Percent Of Total | | | Space Peak Space Sens | | Tot Sens | Percent Of Total | Return Ret/OA | 76.1 78.4 | - 6 | 89.0 81.0 |
| Envelope Loads | | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | Envelope | Loade | Btu/h | | Btu/h | (%) | Fn MtrTD Fn BldTD | 0.0 | | 0.0 |
| Skylite Solar | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite | Solar | 0 | | 0 | 0.00 | Fn Frict | 0.0 | | 0.0 |
| Skylite Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite | | 0 | | 0 | | | | | _ |
| Roof Cond | | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | 0 | | | IDEL OWE | | |
| Glass Solar | | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | 0 | | A | IRFLOWS | | |
| Glass/Door Cor | d | 0 | 0 | 0 | 0 | 0 | 0 | | oor Cond | 0 | | 0 | | | Cooling | He | atin |
| Wall Cond Partition/Door | | 0 228 | 0 | 0 228 | 0: 7: | 0 319 | 0 22 | | | -1.200 | | 4 000 | | Diffuser | 69 | | 6 |
| Floor | | 228 | | 228 | ή: | 319 | - 22 | | VDoor | -1,200 0 | | -1,200 0 | | Terminal | 69 | | 66 |
| Adjacent Floor | | Ö | 0 | 0 | 0: | Ü | 0 | | t Floor | 0 | | 0 | | Main Fan | 69 | | 64 |
| Infiltration | | 0 | U | 0 | 0: | 0 | 0 | | | 0 | | 0 | | Sec Fan | 0 | | (|
| Sub Total ==> | | 228 | 0 | 228 | 7: | 319 | 22 | | | -1.200 | | -1,200 | | Nom Vent | 15 | | 15 |
| Sub local> | | 220 | U | 220 | · : | 218 | 22 | . 500 10. | aı | -1,200 | | -1,200 | 00.07 | AHU Vent | 15 | | 15 |
| Internal Loads | | | | | | | | Internal L | ads | | | | | | 0 | | 10 |
| | | | _ | | | | | | | _ | | _ | | Infil | 0 | | |
| Lights | | 598 | 0 | 596 | 19 | 596 | 41 | Lights | | 0 | | 0 | | Min Stop/Rh | 69 | | 69 |
| People | | 900 | 0 | 900 | 28 | 500 0 | 34 0 | People Misc | | 0 | | 0 | | Return Exhaust | 15 | | 15 |
| Misc | | - | _ | _ | | _ | | | | _ | | - | | | 10 | | (|
| Sub Total ==> | | 1,496 | 0 | 1,496 | 46 | 1,096 | 75 | Sub To | a/ ==> | 0 | | 0 | 0.00 | Rm Exh Auxiliary | 0 | | Ċ |
| Ceiling Load | | 30 | -30 | 0 | 0: | 39 | 3 | Ceiling Lo | ad | -27 | | 0 | 0.00 | Leakage Dwn | ō | | Č |
| Ventilation Load | | 0 | 0 | 1.512 | 47 | 0 | 0 | | | -0 | | -519 | | Leakage Ups | 0 | | |
| Adj Air Trans He | at | 0 | | 0 | 0: | ő | | Adj Air Tra | | 0 | | | 0 | Leakage ops | | | |
| Dehumid. Ov Siz | | | | 0 | 0: | | | Ov/Undr S | | 0 | | 0 | 0.00 | | | | _ |
| Ov/Undr Sizina | 9 | 0 | | 0 | 0: | 0 | 0 | Exhaust H | | - | | 13 | | ENGU | NEERING C | νe | |
| Exhaust Heat | | | -15 | -15 | ő: | | · | OA Prehe | | | | 0 | | LINGII | | | |
| Sup. Fan Heat | | | | 0 | 0: | | | RA Prehe | | | | 0 | 0.00 | | Cooling | Hea | |
| Ret. Fan Heat | | | 0 | 0 | 0: | | | Additiona | Reheat | | | 0 | | % OA | 21.6 | | 21.6 |
| Duct Heat Pkup | | | 0 | 0 | 0: | | | System P | enum Heat | | | -89 | 4.98 | cfm/ft² | 0.79 | (| 0.79 |
| Underfir Sup Ht | kup | | | 0 | 0 | | | Underfir S | up Ht Pkup | | | 0 | | cfm/ton | 258.14 | | |
| Supply Air Leaka | ge | | 0 | 0 | 0 | | | Supply Ai | r Leakage | | | 0 | 0.00 | ft²/ton | 325.37 | | |
| Grand Total ==> | | 1,755 | -44 | 3,222 | 100.00 | 1,455 | 100.00 | Grand To: | al ==> | -1,227 | | -1,795 | 100.00 | Btu/hr-ft² No. People | 36.88 2 | -20 | 0.54 |
| | | | COOLING | COIL SELE | CTION | | | | | AREAS | | | Н | EATING COIL | SELECTIO | N | = |
| | Total C ton | apacity MBh | Sens Cap. C MBh | oil Airflow cfm | | DB/WB/HR F gr/lb | Leave °F | DB/WB/HF °F gr/lb | | Gross Total | Glass ft² | (%) | | Capacity MBh | Coil Airflow cfm | Ent °F | Ly |
| Main Clg | 0.3 | 3.2 | 1.5 | 69 | 78.4 68. | 7 113.7 | 51.9 5 | 1.9 70.3 | Floor | 87 | | - 11 | Main Htg | -1.8 | 69 | 61.0 | 89 |
| Aux Clg | 0.0 | 0.0 | 0.0 | | 0.0 | 0 0.0 | | 0.0 | Part | 81 | | | Aux Htg | 0.0 | 0 | 0.0 | 0 |
| Opt Vent | 0.0 | 0.0 | 0.0 | | 0.0 0.0 | 0 00 | 0.0 | 0.0 0.0 | Int Door | 0 | | | Preheat | 0.0 | 0 | 0.0 | 0 |
| | | 5.0 | 0.0 | | | | 3.0 | | ExFir | ŏ | | - 11 | | 0.0 | | | - |
| Total | 0.3 | 3.2 | | | | | | | Roof | ō | 0 | 0 1 | Humidif | 0.0 | 0 | 0.0 | 0 |
| | | | | | | | | | Wall | ō | ō | | Opt Vent | 0.0 | ō | 0.0 | 0. |
| | | | | | | | | | | . 0 | 0 | 0 | Total | -1.8 | | | |

| | 0001111 | | | | | | BE 417 | | | | | | | | DED . T DE | _ | |
|---------------------------------|--------------------|------|-----------------------|--------------|------------|-----------|----------|------------------------------|----------|-------------|-----------|--------|----------|------------------------|--------------|------|-------|
| | COOLING | i CO | | | | CLG SPACE | | | | HEATING (| COIL PE | :AK | | TEM | PERATURE | S | |
| Pea | ked at Time: | | | Hr: 5/11 | : | Mo/Hr: | | : | | | Heating D | esign) | | | Cooling | Hea | |
| | Outside Air: | | OADB/WB/H | IR: 75/75/1 | 82 ; | OADB: | 68 | : | | OADB: | 32 | | | SADB | 59.6 | | 72.0 |
| | | | | | | | | | | | | | | Ra Plenum | 74.9 | | 69.0 |
| | Spac Sens. + La | | Plenum Sens. + Lat | Net | Percent | Space | Percent | | | Space Peak | | | Percent | Return | 74.9 | | 69.0 |
| | | | | Total | Of Total : | Sensible | Of Total | : | | Space Sens | To | | Of Total | Ret/OA En MtrTD | 74.9 0.0 | , | 67.5 |
| | Btu | /h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | | Btu/h | (%) | Fn Mtr I D | 0.0 | | 0.0 |
| Envelope Loads Skylite Solar | | 0 | 0 | 0 | 0 | 0 | 0 | : Envelope L : Skylite Si | | 0 | | 0 | 0.00 | Fn Big I D | 0.0 | | 0.0 |
| Skylite Solar Skylite Cond | | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | 0 | | Fn Frict | 0.0 | | U.U |
| Roof Cond | | 0 | Ö | 0 | 0: | 0 | 0 | | | 0 | | 0 | | | | | _ |
| Glass Solar | 3.90 | | ň | 3.931 | 33 | 5.124 | 48 | | | o o | | ő | | Δ | IRFLOWS | | |
| Glass/Door Cond | | 14 | ŏ | -14 | ~ : | -46 | - 0 | | | -172 | | -172 | | _ ^ | | | |
| Wall Cond | 12 | | 140 | 264 | 2: | -86 | -1 | | | -428 | | -895 | 29.28 | | Cooling | | ating |
| Partition/Door | -16 | | | -168 | -1: | -282 | -3 | | | -704 | | -704 | 23.04 | Diffuser | 752 | | 752 |
| Floor | | 0 | | 0 | 0: | 0 | ō | | | 0 | | 0 | 0.00 | Terminal | 752 | | 752 |
| Adjacent Floor | | ō | 0 | ō | 0 | ō | ō | | Floor | ō | | ō | 0.00 | Main Fan | 752 | | 752 |
| Infiltration | | 0 | | 0 | 0 | 0 | 0 | Infiltration | 1 | 0 | | 0 | 0.00 | Sec Fan | 0 | | 0 |
| Sub Total ==> | 3,87 | 3 | 140 | 4,013 | 33 | 4,730 | 45 | : Sub Tota | ==> | -1,305 | | -1,771 | 57.96 | Nom Vent | 30 | | 30 |
| | | | | | : | | | : | | | | | | AHU Vent | 30 | | 30 |
| Internal Loads | | | | | | | | Internal Loa | ds | | | | | Infil | 0 | | 0 |
| Lights | 1.48 | 51 | 0 | 1.451 | 12 | 1.451 | 14 | Lights | | 0 | | 0 | 0.00 | Min Stop/Rh | 0 | | 0 |
| People | 1.80 | | ŏ | 1.800 | 15 | 1.000 | | | | ŏ | | ŏ | | Return | 752 | | 752 |
| Misc | 3.41 | 3 | 0 | 3,413 | 28 | 3,413 | 32 | | | ō | | ō | 0.00 | Exhaust | 30 | | 30 |
| Sub Total ==> | 6.66 | la. | 0 | 6.664 | 55 | 5.884 | 56 | Sub Tota | ==> | 0 | | 0 | 0.00 | Rm Exh | 0 | | 0 |
| 000 7000 | 0,00 | | | 0,007 | | 0,004 | | | | | | | 0.00 | Auxiliary | 0 | | 0 |
| Ceiling Load | | -6 | 6 | 0 | 0: | -28 | 0 | Ceiling Loa | d | -66 | | 0 | 0.00 | Leakage Dwn | 0 | | 0 |
| Ventilation Load | | 0 | 0 | 1,407 | 12 | 0 | 0 | Ventilation | Load | 0 | | -1,037 | 33.94 | Leakage Ups | 0 | | 0 |
| Adj Air Trans Hea | t | 0 | | 0 | 0: | 0 | 0 | : Adj Air Tran | s Heat | 0 | | 0 | 0 | | | | |
| Dehumid. Ov Sizi | ng | | | 0 | 0: | | | Ov/Undr Siz | ing | 0 | | 0 | 0.00 | | | | |
| Ov/Undr Sizing | | 0 | | ō | ō: | 0 | 0 | Exhaust He | at | | | 27 | -0.88 | FNGII | NEERING C | KS | |
| Exhaust Heat | | | 3 | 3 | 0 | | | OA Preheat | Diff. | | | 0 | 0.00 | | | | _ |
| Sup. Fan Heat | | | | 0 | 0; | | | ; RA Preheat | | | | 0 | 0.00 | | Cooling | Hea | |
| Ret. Fan Heat | | | 0 | 0 | 0; | | | Additional F | Reheat | | | 0 | | % OA | 4.0 | | 4.0 |
| Duct Heat Pkup | | | 0 | 0 | 0 | | | System Ple | | | | -274 | 8.98 | cfm/ft² | 3.54 | - 3 | 3.54 |
| Underfir Sup Ht P | | | _ | 0 | 0 | | | Underfir Su | | | | 0 | 0.00 | cfm/ton | 746.98 | | |
| Supply Air Leaka | ge | | 0 | 0 | 0 | | | Supply Air | Leakage | | | 0 | 0.00 | ft²/ton | 211.08 | | |
| | | | | | | | | | | | | | | Btu/hr-ft ² | 56.85 | -14 | 4.37 |
| Grand Total ==> | 10,53 | 31 | 149 | 12,088 | 100.00 | 10,588 | 100.00 | Grand Total | ==> | -1,371 | | -3,056 | 100.00 | No. People | 4 | | |
| | | | | COIL SELE | | | | | | AREAS | | | Н | EATING COIL | | | |
| | Total Capaci | | | Coil Airflow | | DB/WB/HR | | e DB/WB/HR | | Gross Total | Glass | - 11 | | | Coil Airflow | Ent | |
| | ton ME | ßh | MBh | cfm | °F | °F gr/lb | °F | °F gr/lb | | | ft² | (%) | | MBh | cfm | °F | ٩F |
| Main Clg | 1.0 12 | 1 | 9.9 | 752 | 74.9 62 | .3 82.8 | 59.6 5 | 6.6 79.2 | Floor | 213 | | - 11 | Main Htg | -3.1 | 752 | 87 S | 72.0 |
| Aux Clg | | .0 | 0.0 | 7.52 | | 0.0 | | 0.0 0.0 | Part | 48 | | | Aux Hta | 0.0 | 7.52 | 0.0 | 0.0 |
| Opt Vent | | .0 | 0.0 | 0 | | | | 0.0 0.0 | Int Door | | | - 11 | Preheat | 0.0 | 0 | 0.0 | 0.0 |
| Opt vent | 0.0 0 | .u | 0.0 | U | 0.0 0 | 0.0 | 0.0 | 0.0 | ExFir | | | - 11 | rreneat | 0.0 | U | 0.0 | U.L |
| Total | 1.0 12 | 1 | | | | | | | Roof | Ö | 0 | 0 | Humidif | 0.0 | 0 | 0.0 | 0.0 |
| routi | 1.0 12 | | | | | | | | Wall | 193 | 64 | | Opt Vent | 0.0 | Ö | 0.0 | 0.0 |
| | | | | | | | | | Ext Doo | | 0 | | Total | -3.1 | | 2.0 | |
| | | | | | | | | | | | | | | | | | |

Room Checksums

By Trane

| | COOLIN | 3 CO | IL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | TEM | PERATURE | S |
|-----------------------------------|------------------------------|------|-----------------------|-------------------------------|---------------------|-------------------|---------------------|------------------------|-------------------|--------------------------|------------------------------|-------------------------|--------------------------|-------------------------|-----------|
| | ked at Time: Outside Air: | | | Hr: 5 / 15 HR: 87 / 86 / 2 | 37 | Mo/Hr: : | | | | Mo/Hr: I OADB: | leating Design 32 | | SADB Ra Plenum | Cooling 52.1 76.1 | Heat 7 |
| | Spa Sens. + L | | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | k Percent s Of Total | Return Ret/OA | 76.1 78.3 | 6 |
| | Btu | /h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/ | h (%) | Fn MtrTD | 0.0 | |
| nvelope Loads | | | | | | | | Envelope Lo | | | | | Fn BldTD | 0.0 | |
| Skylite Solar | | 0 | 0 | 0 | 0: | 0 | 0 | Skylite So | | 0 | | 0.00 | Fn Frict | 0.0 | |
| Skylite Cond Roof Cond | | 0 | 0 | 0 | 0: | 0 | 0 | Skylite Co Roof Con | | 0 | | 0.00 | | | |
| Glass Solar | | 0 | 0 | 0 | 0: | 0 | 0 | Glass Sol | | 0 | | 0.00 | ΙΙ Δ | IRFLOWS | |
| Glass/Door Cond | | Ö | 0 | 0 | 0 | 0 | 0 | Glass/Do | | 0 | | 0.00 | ^ | | |
| Wall Cond | | ŏ | ő | ŏ | 0 | ő | ő | Wall Con | | 0 | | 0.00 | | Cooling | |
| Partition/Door | 2 | | - | 261 | 1 | 328 | 4 | Partition/(| | -1.200 | -1.20 | | Diffuser | 433 | |
| Floor | - | 0 | | 0 | 0 | 0 | Ö | Floor | | 0 | | 0.00 | Terminal | 433 | |
| Adjacent Floor | | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | Floor | 0 | | 0.00 | Main Fan | 433 | |
| Infiltration | | 0 | | 0 | 0 | 0 | 0 | Infiltration | | 0 | | 0.00 | Sec Fan | 0 | |
| Sub Total ==> | 2 | 31 | 0 | 261 | 1 | 328 | 4 | Sub Total | ==> | -1,200 | -1,20 | 0 25.44 | Nom Vent | 90 | |
| | | | | | 1 | | | | | | | | AHU Vent | 90 | |
| ternal Loads | | | | | | | | Internal Loa | ds | | | | Infil | 0 | |
| ights | 2.1 | 19 | 0 | 2,149 | 11 | 2.149 | 24 | Lights | | 0 | | 0.00 | Min Stop/Rh | 0 | |
| People | 5,4 | 00 | 0 | 5,400 | 27 | 3,000 | 33 | People | | 0 | | 0.00 | Return | 433 | |
| Misc | 3,4 | 13 | 0 | 3,413 | 17 | 3,413 | 38 | Misc | | 0 | | 0.00 | Exhaust | 90 | |
| Sub Total ==> | 10,9 | 62 | 0 | 10,962 | 54 | 8,562 | 95 | Sub Total | ==> | 0 | | 0.00 | Rm Exh | 0 | |
| eiling Load | 1 | 17 | -107 | 0 | 0 | 142 | 2 | Ceiling Load | 4 | -98 | | 0.00 | Auxiliary Leakage Dwn | 0 | |
| entilation Load | 1 | 0 | -107 | 9.074 | 45 | 142 | 0 | Ventilation I | | -90 | -3,11 | | Leakage Ups | 0 | |
| di Air Trans Heat | | 0 | U | 9,074 | 0: | 0 | | Adj Air Tran | | 0 | | 0 0 | Leakage Ups | U | |
| ehumid. Ov Sizin | | U | | - | | U | U | Ov/Undr Siz | | 0 | | 0.00 | | | |
| enumia. Ov Sizir v/Undr Sizina | ıg | 0 | | 0 | 0 | 0 | 0 | Exhaust He | | U | 8 | | =11011 | NEERING C | |
| xhaust Heat | | U | -88 | -88 | 0 | U | U | OA Preheat | | | | 0.00 | ENGIN | NEEKING C | NS |
| up. Fan Heat | | | 00 | 0 | 0: | | | RA Preheat | | | | 0.00 | | Cooling | Heat |
| et. Fan Heat | | | 0 | ő | 0: | | | Additional F | | | | 0.00 | % OA | 20.8 | 2 |
| uct Heat Pkup | | | ō | ō | 0 | | | System Plei | num Heat | | -48 | 7 10.31 | cfm/ft² | 1.38 | 1 |
| nderfir Sup Ht Pi | kup | | | 0 | 0 : | | | Underfir Su | p Ht Pkup | | | 0.00 | cfm/ton | 257.12 | |
| upply Air Leakag | je . | | 0 | 0 | 0 | | | Supply Air I | _eakage | | | 0.00 | ft²/ton | 186.95 | |
| rand Total ==> | 11,3 | 80 | -195 | 20,209 | 100.00 | 9,031 | 100.00 | Grand Total | ==> | -1,298 | -4,71 | 7 100.00 | Btu/hr·ft² No. People | 64.19 12 | -14 |
| | | | COOL INC | COIL SELE | CTION | | | | | AREAS | | | EATING COIL | SELECTIO | |
| | Total Capac | ty | Sens Cap. | Coil Airflow | Enter | DB/WB/HR | | DB/WB/HR | | Gross Total | Glass ft ² (%) | " | | Coil Airflow | Ent °F |
| | ton Mi | | MBh | cfm | | | | | | | ft² (%) | | | cfm | |
| | 1.7 20 | | 9.7 | 433 | | | 52.1 5 | | Floor | 315 | | Main Htg | -4.7 | 433 | |
| 0 | | .0 | 0.0 | 0 | 0.0 0. | | | 0.0 0.0 | Part | 81 | | Aux Htg | 0.0 | 0 | 0.0 |
| ot Vent | 0.0 | .0 | 0.0 | 0 | 0.0 0. | 0.0 | 0.0 | 0.0 | Int Door ExFIr | 0 | | Preheat | 0.0 | 0 | 0.0 |
| ital | 1.7 20 | 2 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| tai | 1.7 20 | . 2 | | | | | | | Wall | 0 | 0 0 | Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | | | | | | | | |

PB Area 09 Papeleria

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING (| COIL PEAK | | TEMI | PERATURE | s |
|--|--------------------------------|--------------------------------|----------------------------------|----------------------------|----------------------------|----------------------------|---|---------------|-----------------------------------|------------------|---------------------|---|--------------------------|-------------------------|
| | ked at Time: Outside Air: | Mo | o/Hr: 5 / 15 /HR: 87 / 86 / 2 | 37 | Mo/Hr: OADB: | 5 / 18 | | | | Heating Design | | SADB | Cooling 57.8 76.1 | Heating 70.2 69.0 |
| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) | Space Sensible Btu/h | Percent Of Total (%) | | | Space Peak Space Sens Btu/h | | Percent Of Total | Ra Plenum Return Ret/OA Fn MtrTD | 76.1 76.7 0.0 | 69.0 66.9 0.0 |
| Envelope Loads Skylite Solar | 0 | 0 | 0 | 0 | 0 | 0 | Envelope Le Skylite Sc | | 0 | (| 0.00 | Fn BldTD Fn Frict | 0.0 0.0 | 0.0 |
| Skylite Cond Roof Cond Glass Solar | 0 | 0 0 0 | 0 0 0 | 0 | 0 0 0 | 0 0 0 | Roof Con | d | 0 | (| 0.00 | | IRFLOWS | |
| Glass/Door Cond Wall Cond | | 0 | 0 | 0: | 0 | 0 | Glass/Do | or Cond | 0 | (| 0.00 | | Cooling | Heating |
| Partition/Door Floor | 0 | U | 0 | 0: | 0 | 0 | Partition/I | | 0 | (| 0.00 | Diffuser Terminal | 131 131 | 131 131 |
| Adjacent Floor Infiltration | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | | 0 | (| 0.00 | Main Fan Sec Fan | 131 | 131 |
| Sub Total ==> | 0 | 0 | 0 | 0 | 0 | 0 | Sub Total | | 0 | (| 0.00 | Nom Vent AHU Vent | 8 | 8 |
| Internal Loads Lights | 568 | 0 | 568 | 19 | 568 | 28 | Internal Loa Lights | ds | 0 | (| 0.00 | Infil MinStop/Rh | 0 | Ö |
| People Misc | 450 1,195 | 0 | 450 1,195 | 15 40 | 250 1,195 | 12 58 | People Misc | | 0 | (| | Return Exhaust | 131 8 | 131 |
| Sub Total ==> | 2,213 | 0 | 2,213 | 75 | 2,013 | 98 | | | 0 | (| | Rm Exh Auxiliary | 0 | 0 |
| Ceiling Load Ventilation Load Adj Air Trans Heat | 28 0 | -28 0 | 0 757 0 | 0 26 0 | 39 0 | 0 | Ceiling Load Ventilation I Adj Air Tran | oad | -26 0 0 | -259 (| 65.50 | Leakage Dwn Leakage Ups | 0 | |
| Dehumid. Ov Sizir Ov/Undr Sizing | | | 0 | 0 | 0 | - | Ov/Undr Siz | ing | 0 | 0 | 0.00 | FNGIN | NEERING CI | K S |
| Exhaust Heat Sup. Fan Heat | | -7 | -7 0 | 0 | | | OA Preheat RA Preheat | Diff. | | (| 0.00 | % OA | Cooling 5.7 | Heating 5.7 |
| Ret. Fan Heat Duct Heat Pkup Underfir Sup Ht Pi | kup. | 0 | 0 0 0 | 0: 0: 0: | | | Additional F System Plei Underfir Su | ium Heat | | -143 (| 36.20 | cfm/ft² | 1.57 529.78 | 1.57 |
| Supply Air Leakag | | 0 | 0 | 0 | | | Supply Air I | | | Č | | ft²/ton Btu/hr-ft² | 337.28 35.58 | -4.75 |
| Grand Total ==> | 2,241 | -36 | 2,963 | 100.00 | 2,052 | 100.00 | Grand Total | ==> | -26 | -396 | 100.00 | No. People | 1 | |
| | Total Capacity | COOLING Sens Cap. MBh | COIL SELE Coil Airflow | Ente | r DB/WB/HR °F gr/lb | Leave °F | DB/WB/HR °F gr/lb | | AREAS Gross Total | Glass ft² (%) | HE | EATING COIL Capacity MBh | SELECTIO Coil Airflow | N Ent Ly |
| Main Clg Aux Clg | 0.3 3.0 0.0 0.0 | 2.1 | 131 | 76.7 63 | g | 57.8 5 | | Floor Part | 83 0 | (74) | Main Htg Aux Htg | -0.4 0.0 | | 66.9 70. 0.0 0. |
| Opt Vent | 0.0 0.0 | 0.0 | C | | 0.0 0.0 | | 0.0 0.0 | Int Doo | _ | | Preheat | 0.0 | 0 | 0.0 0. |
| Total | 0.3 3.0 | | | | | | | Roof Wall | 0 | 0 0 | Humidif Opt Vent | 0.0 0.0 | 0 | 0.0 0. 0.0 0. |
| | | | | | | | | Ext Doo | r 0 | 0 0 | Total | -0.4 | | |

Room Checksums By Trane

| | COOLING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PI | EAK | | TEMP | ERATURE | S | |
|---------------------------------------|---------------------------|--------------------|-----------------------------|----------|---------------------|-------------|--------------------------------|----------|-----------------|--------------------------|----------|--------------|-------------------|-------------------------|-----------|-------------------|
| | d at Time: utside Air: | Mo/F OADB/WB/H | r: 5 / 11 R: 75 / 75 / 1 | 62 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating 32 | Design | | SADB Ra Plenum | Cooling 59.1 74.9 | | ing 4.7 9.0 |
| | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | С | oil Peak | Percent | Return | 74.9 | | 9.0 9.0 |
| | Sens. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | 1 | ot Sens | | Ret/OA | 74.9 | | 7.3 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | | Btu/h | (%) | Fn MtrTD | 0.0 | | 0.0 |
| Envelope Loads | 0 | | 0 | | | 0 | Envelope L | | 0 | | 0 | 0.00 | Fn BldTD | 0.0 | | 0. |
| Skylite Solar Skylite Cond | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | 0 | 0.00 | Fn Frict | 0.0 | | U. |
| Roof Cond | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | 0 | 0.00 | | | | = |
| Glass Solar | 9.763 | ő | 9.763 | 49 | 11.270 | 69 | | | 0 | | ő | 0.00 | AIF | RFLOWS | | |
| Glass/Door Cond | -138 | Ö | -138 | -1 | -413 | -3 | | | -1,746 | | -1,746 | 22.89 | 7 | | Hea | |
| Wall Cond | 33 | 234 | 267 | 1 | 2 | 0 | Wall Con- | d | -114 | | -895 | 11.73 | | Cooling | | |
| Partition/Door | -655 | | -655 | -3: | -1,132 | -7 | | Door | -2,754 | | -2,754 | 36.09 | Diffuser | 1,135 | | ,1 |
| Floor | 0 | | 0 | 0 | 0 | 0 | | | 0 | | 0 | 0.00 | Terminal | 1,135 1,135 | | 1,1 |
| Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | 0 | 0.00 | Main Fan | -, | 1 | , 1. |
| Infiltration | 0 | | 0 | 0 | 0 | 0 | | | 0 | | 0 | 0.00 | Sec Fan | 0 | | |
| Sub Total ==> | 9,003 | 234 | 9,237 | 47 | 9,727 | 59 | Sub Total | ==> | -4,614 | | -5,395 | 70.72 | Nom Vent | 53 | | |
| | | | | : | | | Internal Loa | rde | | | | | AHU Vent | 53 | | |
| nternal Loads | | | | | | | | ius | | | | | Infil | 0 | | |
| Lights | 5,003 | 0 | 5,003 | 25 | 5,003 | 31 | | | 0 | | 0 | 0.00 | Min Stop/Rh | 0 | | .1 |
| People Misc | 3,150 0 | 0 | 3,150 0 | 16 | 1,750 0 | 11 0 | | | 0 | | 0 | 0.00 | Return Exhaust | 1,135 53 | | 1, 15 |
| | | | | | _ | | | | _ | | 0 | | Rm Exh | 0 | | |
| Sub Total ==> | 8,153 | 0 | 8,153 | 41 | 6,753 | 41 | Sub Total | ==> | 0 | | U | 0.00 | Auxiliary | 0 | | |
| Ceiling Load | -22 | 22 | 0 | 0 | -88 | -1 | Ceiling Loa | d | -229 | | 0 | 0.00 | Leakage Dwn | 0 | | |
| Ventilation Load | 0 | 0 | 2,463 | 12 | 0 | 0 | Ventilation | Load | 0 | | -1,815 | 23.79 | Leakage Ups | 0 | 1 | |
| Adj Air Trans Heat | 0 | | 0 | 0 | 0 | 0 | Adj Air Tran | s Heat | 0 | | 0 | 0 | | | | |
| Dehumid. Ov Sizing | | | 0 | 0 | | | Ov/Undr Siz | ing | 0 | | 0 | 0.00 | | | | = |
| Ov/Undr Sizing | 0 | | 0 | 0: | 0 | 0 | | | | | 47 | -0.62 | ENGINI | EERING C | KS | |
| Exhaust Heat | | 5 | 5 | 0 ; | | | OA Preheat | | | | 0 | 0.00 | | Cooling | Heati | in |
| Sup. Fan Heat | | | 0 | 0: | | | RA Preheat | | | | 0 | 0.00 | % OA | 4.6 | | an 4. |
| Ret. Fan Heat | | 0 | 0 | 0: | | | : Additional I : System Ple | | | | -466 | 0.00 6.11 | cfm/ft² | 1.55 | | .5 |
| Duct Heat Pkup Underfir Sup Ht Pku | ın. | U | 0 | 0: | | | Underfir Su | | | | 0 | 0.00 | cfm/ton | 686.12 | | |
| Supply Air Leakage | ib. | 0 | 0 | 0 | | | Supply Air | | | | 0 | 0.00 | ft²/ton | 442.89 | | |
| supply All Leakage | | 0 | Ü | 0: | | | Supply All | Leakage | | | U | 0.00 | Btu/hr-ft² | 27.09 | -10. | 4 |
| Grand Total ==> | 17,133 | 261 | 19,857 | 100.00 | 16,391 | 100.00 | Grand Total | ==> | -4,843 | | -7,629 | 100.00 | No. People | 7 | | |
| | | COOLING | COIL SELE | спои | | | | | AREAS | 3 | | HE | ATING COIL | SELECTIO | N | - |
| | otal Capacity on MBh | Sens Cap. C MBh | oil Airflow cfm | | DB/WB/HR F gr/lb | Leave °F | BB/WB/HR F gr/lb | | Gross Total | Glass ft ² | (%) | | Capacity C MBh | Coil Airflow cfm | Ent *F | |
| Main Clg 1 | .7 19.9 | 16.0 | 1,135 | 74.9 62 | 4 83.3 | 59.1 5 | 6.2 78.0 | Floor | 733 | | | Main Htg | -7.6 | 1,135 | 67.3 | |
| | .0 0.0 | 0.0 | ,,,,,, | | | | 0.0 0.0 | Part | 187 | | | Aux Htg | 0.0 | 0 | 0.0 | |
| | .0 0.0 | 0.0 | 0 | 0.0 0 | 0 0.0 | | 0.0 0.0 | Int Door | 0 | | | Preheat | 0.0 | 0 | 0.0 | |
| , | 3.0 | | | | | | 2.0 | ExFlr | ő | | | | | Ü | | |
| Total 1 | .7 19.9 | | | | | | | Roof | ō | 0 | 0 | Humidif | 0.0 | 0 | 0.0 | |
| | | | | | | | | Wall | 324 | 193 | 60 | Opt Vent | 0.0 | 0 | 0.0 | |
| | | | | | | | | | | | | | | | | |

By Trane

| | COOLING | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | TEM | PERATURE | S |
|-------------------------------|-----------------------------|-----------------------|------------------------------------|---------------------|-------------------|---------------------|---------------|--------------------------|--------------------------|-----------------------|---------------------|--------------------------|-------------------------|-------------------|
| | ed at Time: Outside Air: | | o/Hr: 5 / 15 3/HR: 87 / 86 / 2: | 37 | Mo/Hr: OADB: | | | | Mo/Hr: F OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 56.3 76.1 | Heati 70 69 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | Coil Peak Tot Sens | Percent Of Total | Return Ret/OA | 76.1 77.1 | 69 65 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | (|
| nvelope Loads | 0 | 0 | 0 | | | | Envelope | | | | | Fn BldTD | 0.0 | (|
| Skylite Solar Skylite Cond | 0 | 0 | 0 | 0: | 0 | 0 | | Cond | 0 | 0 | 0.00 | Fn Frict | 0.0 | (|
| Roof Cond | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | 0 | 0.00 | | | |
| Glass Solar | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | 0 | 0.00 | ll 🛕 | IRFLOWS | |
| Glass/Door Cond | 0 | 0 | 0 | 0 | 0 | 0 | | Door Cond | 0 | 0 | 0.00 | ^ | | |
| Wall Cond | ŏ | 0 | 0 | 0: | 0 | 0 | | | 0 | 0 | 0.00 | | Cooling | Heat |
| Partition/Door | 0 | | 0 | 0: | 0 | 0 | | on/Door | 0 | 0 | 0.00 | Diffuser | 320 | |
| Floor | ů. | | 0 | 0: | 0 | 0 | | JII/DOOI | 0 | 0 | 0.00 | Terminal | 320 | |
| Adiacent Floor | 0 | 0 | 0 | 0: | 0 | 0 | | ent Floor | 0 | 0 | 0.00 | Main Fan | 320 | |
| nfiltration | 0 | 0 | Ö | 0: | 0 | 0 | | | 0 | 0 | 0.00 | Sec Fan | (| |
| Sub Total ==> | 0 | 0 | 0 | 0: | o o | 0 | | otal ==> | 0 | 0 | 0.00 | Nom Vent | 30 | |
| Sub Total ==> | U | U | U | 0 : | U | U | | otar === | U | U | 0.00 | | 30 | |
| | | | | | | | Internal | oade | | | | AHU Vent | | |
| ernal Loads | | | | | | | | Louds | | | | Infil | (| |
| ights | 950 | 0 | 950 | 10 | 950 | 17 | | | 0 | 0 | 0.00 | Min Stop/Rh | (| |
| People People | 1,800 | 0 | 1,800 | 20 | 1,000 | 18 | | 9 | 0 | 0 | | Return | 320 | |
| Misc | 3,413 | 0 | 3,413 | 37 | 3,413 | 63 | : Misc | | 0 | 0 | 0.00 | Exhaust | 30 | |
| Sub Total ==> | 6,163 | 0 | 6,163 | 67 | 5,363 | 99 | Sub Ti | otai ==> | 0 | 0 | 0.00 | Rm Exh | (| |
| eiling Load | 47 | -47 | 0 | 0 | 65 | | Ceilina L | and | -43 | 0 | 0.00 | Auxiliary Leakage Dwn | (| |
| entilation Load | | -47 | | | 0 | 0 | | | -43 0 | -1.037 | 77.39 | | (| |
| dj Air Trans Heat | 0 | U | 3,027 | 33 : | 0 | | : Adj Air T | | 0 | -1,037 | | Leakage Ups | , | |
| | 0 | | 0 | | 0 | 0 | | | - | | | | | |
| ehumid. Ov Sizing | | | 0 | 0 ; | | | Ov/Undr | | 0 | 0 | 0.00 | | | |
| //Undr Sizing | 0 | -29 | .0 | 0: | 0 | 0 | Exhaust | | | 27 0 | -2.01 0.00 | ENGII | NEERING C | KS |
| chaust Heat | | -29 | -29 | | | | : OA Preh | | | | | | Cooling | Heati |
| ıp. Fan Heat | | 0 | 0 | 0: | | | : RA Preh | | | 0 | 0.00 | % OA | 9.4 | rieau |
| et. Fan Heat | | 0 | 0 | 0: | | | | ai Keneat Plenum Heat | | -330 | 24.62 | cfm/ft² | 2.30 | 2. |
| ict Heat Pkup | | U | 0 | 0: | | | | Sup Ht Pkup | | -550 | 0.00 | cfm/ton | 418.62 | 2. |
| nderfir Sup Ht Pki | | 0 | 0 | 0: | | | | | | 0 | 0.00 | | | |
| upply Air Leakage | 9 | U | 0 | 0 ; | | | Supply A | ir Leakage | | U | 0.00 | ft²/ton | 182.25 | |
| rand Total ==> | 6,210 | -77 | 9,160 | 100.00 | 5,428 | 100.00 | : Grand Te | otal ==> | -43 | -1,340 | 100.00 | Btu/hr·ft² No. People | 65.84 4 | -9. |
| | | | | | | | | | | | | <u> </u> | | |
| | | | G COIL SELE | | | | | _11 | AREAS | | н | EATING COIL | | |
| | Total Capacity | Sens Cap. | Coil Airflow | | DB/WB/HR | | DB/WB/F | | Gross Total | Glass | | | Coil Airflow | Ent |
| 1 | ton MBh | MBh | cfm | °F | °F gr/lb | °F | °F gr/l | b | | ft² (%) | | MBh | cfm | °F |
| in Cla | 0.8 9.2 | 5.7 | 320 | 77.1 65 | 5.0 94.2 | 56.3 5 | 5.1 77. | 5 Floor | 139 | | Main Htg | -1.3 | 320 | 65.5 |
| | 0.0 0.0 | 0.0 | 0 | | 0.0 0.0 | | 0.0 0. | | 0 | | Aux Htg | 0.0 | 0 | 0.0 |
| | 0.0 0.0 | 0.0 | 0 | | | | 0.0 0. | - | | | Preheat | 0.0 | 0 | 0.0 |
| bragur (| U.U U.U | 0.0 | U | 0.0 (| 7.0 0.0 | 0.0 | v.v U. | UII IIILDO | J1 U | | rielleat | 0.0 | U | U.U |

Room Checksums By Trane

Floor Part Int Door ExFIr Roof Wall Ext Door

0.0 0.0 -1.3

0 0.0 0 0.0

8.0

9.2

Total

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | COIL PEAK | | TEMP | PERATURE | S |
|---------------------------------|------------------------------|-----------------------|-----------------------------------|---------------------|-------------------|---------------------|-------------------------|----------|--------------------------|----------------------|-------------------------|-------------------------------|--------------------------|--------------------|
| Pea | ked at Time: Outside Air: | | o/Hr: 5 / 15 3/HR: 87 / 86 / 2 | 37 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB | Cooling 54.9 76.1 | Heatir 70 69 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | k Percent s Of Total | Ra Plenum Return Ret/OA | 76.1 77.6 | 69 63 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/ | h (%) | Fn MtrTD | 0.0 | 0 |
| Envelope Loads Skylite Solar | 0 | 0 | 0 | 0 | 0 | 0 | Envelope L Skylite S | | 0 | | 0.00 | Fn BldTD | 0.0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0: | 0 | 0 | Skylite C | | 0 | | 0.00 | Fn Frict | 0.0 | U |
| Roof Cond | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | 0.00 | | | |
| Glass Solar | n n | 0 | ő | 0 | 0 | ő | Glass So | | 0 | | 0.00 | II AII | RFLOWS | |
| Glass/Door Cone | | 0 | ő | 0 | 0 | 0 | Glass/Do | | 0 | | 0.00 | | | |
| Wall Cond | ō | ō | ō | ō: | ō | 0 | | | ō | | 0.00 | | Cooling | |
| Partition/Door | ō | | ō | 0 | ō | ō | Partition/ | Door | ō | | 0.00 | Diffuser | 323 | ; |
| Floor | ō | | ō | 0 | ō | ō | Floor | | ō | | 0.00 | Terminal | 323 | : |
| Adjacent Floor | 0 | 0 | 0 | 0: | 0 | 0 | Adiacent | Floor | 0 | | 0.00 | Main Fan | 323 | : |
| Infiltration | 0 | | 0 | 0 | 0 | 0 | Infiltration | 1 | 0 | | 0.00 | Sec Fan | C | |
| Sub Total ==> | 0 | 0 | 0 | 0: | 0 | 0 | Sub Tota | ==> | 0 | | 0.00 | Nom Vent | 45 | |
| | | | | | | | | | | | | AHU Vent | 45 | |
| nternal Loads | | | | | | | Internal Loa | ids | | | | Infil | C | |
| Lights | 931 | 0 | 931 | 8 | 931 | 16 | Lights | | 0 | | 0.00 | Min Stop/Rh | Č | |
| People | 2.700 | 0 | 2.700 | 23 | 1,500 | 25 | People | | 0 | | 0.00 | Return | 323 | |
| Misc | 3,413 | 0 | 3,413 | 30 | 3.413 | 58 | Misc | | 0 | | 0.00 | Exhaust | 45 | |
| Sub Total ==> | 7.044 | 0 | 7.044 | 61 | 5.844 | 99 | Sub Tota | / | 0 | | 0.00 | Rm Exh | C | |
| Sub Iolai | 7,044 | U | 7,044 | 01 | 3,044 | 33 | Sub rota | | U | | 0.00 | Auxiliary | C | |
| Ceiling Load | 46 | -46 | 0 | 0: | 64 | 1 | Ceiling Loa | d | -43 | | 0.00 | Leakage Dwn | C | |
| entilation Load | 0 | 0 | 4.538 | 39 | 0 | 0 | Ventilation | Load | 0 | -1,55 | 6 84.21 | Leakage Ups | C | |
| Adj Air Trans Hea | t o | | 0 | 0 | 0 | 0 | Adj Air Trar | s Heat | 0 | | 0 0 | | | |
| Dehumid. Ov Sizi | na | | 0 | 0: | | | Ov/Undr Siz | rina | 0 | | 0.00 | | | |
| Ov/Undr Sizing | 0 | | ő | 0 | 0 | 0 | Exhaust He | | | 4 | 0 -2.18 | FNGIN | EERING C | KS |
| Exhaust Heat | - | -44 | -44 | ō: | - | - | OA Preheat | Diff. | | | 0.00 | Litolit | | |
| Sup. Fan Heat | | | 0 | 0: | | | RA Preheat | Diff. | | | 0.00 | | Cooling | Heatir |
| Ret. Fan Heat | | 0 | 0 | 0: | | | Additional I | | | | 0.00 | % OA | 13.9 | 13 |
| Ouct Heat Pkup | | 0 | 0 | 0 | | | System Ple | | | -33 | | cfm/ft² | 2.37 | 2.3 |
| Jnderfir Sup Ht P | | | 0 | 0 | | | Underfir Su | | | | 0.00 | cfm/ton | 335.78 | |
| Supply Air Leaka | je | 0 | 0 | 0 | | | Supply Air | Leakage | | | 0.00 | ft²/ton | 141.90 | |
| Grand Total ==> | 7,091 | -90 | 11,538 | 100.00 | 5,908 | 100.00 | Grand Tota | / ==> | -43 | -1,84 | 7 100.00 | Btu/hr·ft² No. People | 84.57 6 | -13.5 |
| | Total Capacity | COOLIN | G COIL SELI | | r DB/WB/HR | Long | DB/WB/HR | | AREAS Gross Total | Glass | н | EATING COIL | SELECTIC Coil Airflow | N Ent |
| | ton MBh | Sens Cap. MBh | cfir | | °F gr/lb | °F | °F gr/lb | | GIUSS IUIAI | ft² (%) | | MBh | cfm | °F |
| lain Clg | 1.0 11.5 | 6.3 | 323 | | | 54.9 5 | | Floor | 136 | | Main Htg | -1.9 | 323 | |
| ux Clg | 0.0 0.0 | 0.0 | (| 0.0 | 0.0 0.0 | 0.0 | 0.0 | Part | 0 | | Aux Htg | 0.0 | 0 | 0.0 |
| pt Vent | 0.0 0.0 | 0.0 | (| 0.0 (| 0.0 0.0 | 0.0 | 0.0 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 |
| | | | | | | | -7- | ExFlr | ō | | 1 | | | |
| otal | 1.0 11.5 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | | | | | | | | Wall | 0 | 0 0 | Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | Ext Door | . 0 | 0 0 | Total | -1.9 | | |

By Trane

PB Area 13 Bodega

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | TEM | PERATURE | S |
|---------------------------|------------------------------|-----------|-----------------------------------|----------|------------------------|-------------|------------------------|------------|-------------------|------------------------------|----------|-------------------|-------------------------|-------------------------|
| Pea | ked at Time: Outside Air: | | o/Hr: 11 / 18 /HR: 70 / 70 / 1 | 38 | Mo/Hr: OADB: | | | | Mo/Hr: F OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 59.6 75.9 | Heating 77.9 69.0 |
| | Space | | Net | Percent | Space | Percent | | | Space Peak | Coil Peak | Percent | Return | 75.9 | 69.0 |
| | Sens. + Lat. | | Total | Of Total | Sensible | Of Total | | | Space Sens | | Of Total | Ret/OA | 75.7 | 67.7 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | : | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | 0.0 |
| Envelope Loads | | | | | | | Envelope L | | | | | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | 0 | | Fn Frict | 0.0 | 0.0 |
| Skylite Cond Roof Cond | 0 | | 0 | 0 | | 0 | Skylite Co Roof Con | | 0 | 0 | 0.00 | | | |
| Glass Solar | 0 | 0 | 0 | 0: | | 0 | Glass So | | 0 | 0 | 0.00 | | IRFLOWS | |
| Glass/Door Cond | | 0 | 0 | 0 | | 0 | Glass/Do | | 0 | 0 | | ^ | | |
| Wall Cond | 992 | | 1.524 | 40 | | 34 | Wall Con | | -755 | -1.157 | 59.92 | | Cooling | |
| Partition/Door | -26 | | -26 | -1: | | -1 | Partition/ | | -714 | -714 | 37.01 | Diffuser | 208 | 208 |
| Floor | -20 | | -20 | 0 | | 0 | Floor | | -/14 | -714 | 0.00 | Terminal | 208 | 208 |
| Adjacent Floor | Ö | 0 | ő | 0: | | 0 | Adiacent | Floor | 0 | Ö | 0.00 | Main Fan | 208 | 208 |
| Infiltration | ō | | ō | ō: | | ő | Infiltration | | Ö | ō | 0.00 | Sec Fan | 0 | (|
| Sub Total ==> | 966 | 532 | 1.498 | 39 | 966 | 33 | Sub Tota | / ==> | -1,469 | -1,871 | 96.93 | Nom Vent | 8 | |
| Odb rotar == | | | ., | | | | | | | | | AHU Vent | 8 | |
| Internal Loads | | | | | | | Internal Loa | ads | | | | Infil | 0 | i |
| Lights | 481 | 0 | 481 | 13 | 481 | 17 | Lights | | 0 | 0 | 0.00 | Min Stop/Rh | 0 | |
| People | 450 | | 450 | 12 | | 9 | People | | 0 | 0 | | Return | 208 | 208 |
| Misc | 1.195 | | 1.195 | 31 | 1.195 | 41 | Misc | | 0 | ŏ | | Exhaust | 200 | |
| Sub Total ==> | 2,126 | | 2,126 | 55 | ., | 66 | Sub Tota | / | 0 | 0 | | Rm Exh | ō | i |
| Sub Iolai ==> | 2,120 | U | 2,120 | 20 | 1,920 | 00 | SUD TOTAL | / ==> | U | U | 0.00 | Auxiliary | 0 | i |
| Ceiling Load | 21 | -21 | 0 | 0 | 21 | 1 | Ceiling Loa | d | -22 | 0 | 0.00 | Leakage Dwn | 0 | |
| Ventilation Load | 0 | | 217 | 6 | | 'n | Ventilation | | 0 | -259 | 13.43 | Leakage Ups | 0 | i |
| Adi Air Trans Hea | | | 0 | 0: | | n | Adj Air Tran | is Heat | 0 | 0 | 0 | Loundy ope | | |
| Dehumid. Ov Sizi | | | 0 | 0: | | U | Ov/Undr Siz | | 0 | 0 | 0.00 | | | |
| Ov/Undr Sizing | .9 | | 0 | 0 | | 0 | Exhaust He | | | 7 | -0.35 | ENGI | NEERING C | v c |
| Exhaust Heat | | -6 | -6 | ő: | | U | OA Preheat | | | ò | 0.00 | ENGII | NEEKING C | |
| Sup. Fan Heat | | _ | 0 | 0: | | | RA Preheat | | | ō | 0.00 | | Cooling | Heating |
| Ret. Fan Heat | | 0 | 0 | 0: | | | Additional i | Reheat | | 0 | 0.00 | % OA | 3.6 | 3.6 |
| Duct Heat Pkup | | 0 | 0 | 0: | | | System Ple | num Heat | | 193 | -10.01 | cfm/ft² | 2.95 | 2.95 |
| Underflr Sup Ht P | kup | | 0 | 0 | | | Underfir Su | ip Ht Pkup | | 0 | 0.00 | cfm/ton | 650.79 | |
| Supply Air Leakag | je | 0 | 0 | 0 | | | Supply Air | Leakage | | 0 | 0.00 | ft²/ton | 220.62 | |
| | | | | | | | | | | | | Btu/hr-ft² | 54.39 | -27.39 |
| Grand Total ==> | 3,113 | 504 | 3,833 | 100.00 | 2,913 | 100.00 | Grand Tota | / ==> | -1,491 | -1,930 | 100.00 | No. People | 1 | |
| | | COOLING | G COIL SELE | СПОИ | | | | | AREAS | | н | EATING COIL | SELECTIO | N |
| | Total Capacity ton MBh | | Coil Airflow cfm | | r DB/WB/HR °F gr/lb | Leave °F | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent Ly |
| Main Clg | 0.3 3.8 | 3.4 | 208 | 75.7 62 | 2.3 81.6 | 59.6 5 | 5.8 75.2 | Floor | 70 | | Main Htg | -1.9 | 208 | 67.7 77. |
| Aux Clg | 0.0 0.0 | | 200 | | 0.0 0.0 | | 0.0 0.0 | Part | 48 | | Aux Htg | 0.0 | 0 | 0.0 |
| Opt Vent | 0.0 0.0 | | 0 | | 0.0 0.0 | | 0.0 0.0 | Int Door | | | Preheat | 0.0 | 0 | 0.0 0 |
| Opt vent | 0.0 0.0 | 0.0 | | 0.0 (| 0.0 | 0.0 | 0.0 | ExFlr | 0 | | riciidat | 0.0 | U | 0.0 0 |
| Total | 0.3 3.8 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 0 |
| - out | 5.0 | | | | | | | Wall | 166 | | Opt Vent | 0.0 | 0 | 0.0 0 |
| | | | | | | | | Ext Doo | | | Total | -1.9 | | |
| | | | | | | | | EXT DOO | , , | 0 0 | rotar | -1.9 | | |

Room Checksums

By Trane

| | COOL | ING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PE | EAK | | TEM | PERATURE | S | |
|-------------------------------|----------------------------|-----------------|-----------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------|--------------------------|--------------------------|--------|---------------------|--------------------------|-------------------------|-----------|-------------|
| Pea | iked at Time Outside Ai | | Mo/Hi OADB/WB/HF | : 5/13 : 83/83/2 | 14 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating D | Design | | SADB Ra Plenum | Cooling 59.8 75.5 | | 73.: 69. |
| | Sens. | Space + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | | Percent Of Total | Return Ret/OA | 75.5 75.8 | (| 69. 67. |
| | | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | | Btu/h | (%) | Fn MtrTD | 0.0 | | 0 |
| nvelope Loads | | | | | | | | Envelope L | | | | | | Fn BldTD | 0.0 | | 0 |
| Skylite Solar | | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | 0 | | Fn Frict | 0.0 | | 0 |
| Skylite Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite C | | 0 | | 0 | | | | | = |
| Roof Cond | | 0 | 1,577 | 1,577 | 10 | 0 | 0 | Roof Cor | | 0 | | -1,942 | 38.44 | | IRFLOWS | | |
| Glass Solar Glass/Door Con | | 6,708 277 | 0 | 6,708 277 | 42 | 11,909 -766 | 86 -6 | Glass So | | -2.358 | | -2.358 | 0.00 46.69 | A | IRFLOWS | | |
| Wall Cond | u | 97 | 248 | 346 | 2: | -700 | -0 -2 | Wall Con | | -2,358 -459 | | -2,358 | 33.18 | | Cooling | He | at |
| Partition/Door | | 0 | 240 | 0 | 0: | -209 | 0 | Partition/ | | -459 | | -1,070 | 0.00 | Diffuser | 997 | | ç |
| Floor | | ő | | ő | 0: | ő | 0 | | Door | o o | | ő | | Terminal | 997 | | 9 |
| Adjacent Floor | | ō | 0 | ő | 0 | 0 | 0 | Adjacent | Floor | 0 | | ő | 0.00 | Main Fan | 997 | | 9 |
| Infiltration | | ő | | ő | ő: | ŏ | ő: | Infiltration | | ŏ | | ŏ | | Sec Fan | 0 | | |
| Sub Total ==> | | 7.082 | 1,825 | 8,907 | 56 | 10,934 | 79 | | | -2,818 | | -5.976 | | Nom Vent | 38 | | |
| oub rotar | | ,,,,,, | 1,020 | 0,001 | | 10,004 | | | | 2,010 | | -, | | AHU Vent | 38 | | |
| iternal Loads | | | | | | | | Internal Loa | ads | | | | | Infil | 0 | | |
| Lights | | 1.677 | 0 | 1.677 | 10 | 1.677 | 12 | Lights | | 0 | | 0 | 0.00 | Min Stop/Rh | 0 | | |
| People | | 2.250 | 0 | 2,250 | 14 | 1,250 | 9 | | | 0 | | ő | | Return | 997 | | |
| Misc | | 0 | 0 | 2,250 | 0 | 1,230 | 0 | Misc | | 0 | | ő | | Exhaust | 38 | | |
| Sub Total ==> | | 3.927 | 0 | 3.927 | 25 | 2.927 | 21 | Sub Tota | | 0 | | 0 | | Rm Exh | 0 | | |
| Sub lotal ==> | | 3,927 | U | 3,927 | 25 | 2,921 | 21 | SUD TOTAL | /==> | U | | U | 0.00 | Auxiliary | ō | | |
| Ceiling Load | | 39 | -39 | 0 | 0: | -33 | 0 | Ceiling Loa | d | -77 | | 0 | 0.00 | Leakage Dwn | ō | | |
| entilation Load | | 0 | 0 | 3,162 | 20 | 0 | 0 | Ventilation | Load | 0 | | -1,296 | 25.67 | Leakage Ups | 0 | | |
| dj Air Trans Hea | ıt | 0 | _ | 0 | 0: | 0 | 0 | Adj Air Trar | is Heat | 0 | | 0 | 0 | | _ | | |
| ehumid. Ov Siz | na | - | | 0 | 0: | - | - : | Ov/Undr Siz | zina | 0 | | 0 | 0.00 | | | | = |
| v/Undr Sizing | | 0 | | ō | 0 | 0 | 0 : | Exhaust He | | _ | | 34 | -0.67 | FNGIN | NEERING C | κs | |
| xhaust Heat | | | -17 | -17 | ő: | | | OA Preheat | Diff. | | | 0 | 0.00 | Livon | | | |
| up. Fan Heat | | | | 0 | 0: | | | RA Preheat | Diff. | | | 0 | 0.00 | | Cooling | Hea | |
| tet. Fan Heat | | | 0 | 0 | 0: | | : | Additional I | | | | . 0 | | % OA | 3.8 | | 3 |
| uct Heat Pkup | | | 0 | 0 | 0 | | | System Ple | | | | 2,188 | -43.32 | cfm/ft² | 4.06 | | 4.0 |
| nderfir Sup Ht F | | | | 0 | 0 | | | Underfir Su | | | | 0 | | cfm/ton | 748.44 | | |
| upply Air Leaka | ge | | 0 | 0 | 0 : | | | Supply Air | Leakage | | | 0 | 0.00 | ft²/ton | 184.49 | | |
| irand Total ==> | 1 | 1,049 | 1,768 | 15,979 | 100.00 | 13,827 | 100.00 | Grand Tota | / ==> | -2,894 | | -5,050 | 100.00 | Btu/hr-ft² No. People | 65.05 5 | -20 | 0.5 |
| | | | COOLING C | OIL SELF | CTION | | | | | AREAS | 3 | | н | EATING COIL | SELECTIO | N | = |
| | Total Car ton | acity MBh | Sens Cap. Co MBh | oil Airflow cfm | | DB/WB/HR F gr/lb | | DB/WB/HR *F gr/lb | | Gross Total | Glass ft ² | (%) | | Capacity MBh | Coil Airflow cfm | Ent °F | |
| ain Clg | 1.3 | 16.0 | 12.1 | 997 | 75.8 62 | .9 84.6 | 59.8 57 | 7.3 82.2 | Floor | 246 | | | Main Htg | -5.1 | 997 | 67.6 | |
| ux Cla | 0.0 | 0.0 | 0.0 | 0 | 0.0 0 | | | 0.0 | Part | 0 | | | Aux Hta | 0.0 | 0 | 0.0 | |
| pt Vent | 0.0 | 0.0 | 0.0 | 0 | 0.0 0 | | | 0.0 0.0 | Int Door | 0 | | - 11 | Preheat | 0.0 | 0 | 0.0 | |
| pt vont | 0.0 | 0.0 | 0.0 | | 0.0 0 | .0.0 | 0.0 | 0.0 | ExFlr | 0 | | | Silout | 0.0 | U | 0.0 | |
| otal | 1.3 | 16.0 | | | | | | | Roof | 246 | 0 | 0 | Humidif | 0.0 | 0 | 0.0 | |
| | | | | | | | | | Wall | 504 | 261 | | Opt Vent | 0.0 | ő | 0.0 | |
| | | | | | | | | | | | | | | | | | |

PB Area 15 Vestibulo acceso funcionarios

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING (| OIL PEAK | | TEM | PERATURE | S | |
|-------------------------------|------------------------------|---------------------|-------------------------|----------|---------------------|-------------|------------------------------|---------------|-----------------|------------------------------|----------|------------------------|-------------------------|-----------|----------------------|
| Pea | ked at Time: Outside Air: | Mo/Hr OADB/WB/HR | 5 / 16 : 86 / 85 / 2 | 31 | Mo/Hr: OADB: | | : | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 57.4 76.3 | | ting 31.0 59.0 |
| | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil Peal | Percent | Return | 76.3 | | 59.0 |
| | Sens. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | Tot Sens | of Total | Ret/OA | 76.9 | 6 | 6.8 |
| | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | | | Btu/h | Btu/f | 1 (%) | Fn MtrTD | 0.0 | | 0.0 |
| Envelope Loads | | | | | | | Envelope Lo | | | | | Fn BldTD | 0.0 | | 0.0 |
| Skylite Solar | 0 | | 0 | 0 | 0 | 0 | Skylite So | | 0 | (| | Fn Frict | 0.0 | | 0.0 |
| Skylite Cond | 0 | | 0 | 0 | 0 | 0 | Skylite Co | | 0 | 9 | | | | | = |
| Roof Cond Glass Solar | 0 | | 0 | 0 | 0 | 0 | Roof Con Glass Sol | | 0 | (| | | IRFLOWS | | |
| Glass/Door Cond | | | 0 | 0 | 0 | 0 | Glass/Do | | 0 | | | ^ | | | |
| Wall Cond | 152 | 80 | 232 | 2 | 141 | 1 | | | -161 | -246 | | | Cooling | Hea | ating |
| Partition/Door | 1.465 | 00 | 1.465 | 10 | 1.580 | 16 | Partition/ | | -5.937 | -5.937 | | Diffuser | 622 | | 622 |
| Floor | 0,400 | | 0 | 0: | 0 | 0 | Floor | 5001 | 0,007 | 0,00 | | Terminal | 622 | | 622 |
| Adjacent Floor | 0 | 0 | 0 | 0 | Ō | 0 | Adjacent | Floor | 0 | i | 0.00 | Main Fan | 622 | | 622 |
| Infiltration | 0 | | 0 | 0 | 0 | 0 | Infiltration | | 0 | Ċ | 0.00 | Sec Fan | 0 | | 0 |
| Sub Total ==> | 1,616 | 80 | 1,696 | 12: | 1,721 | 17 | Sub Total | ==> | -6,098 | -6,184 | 76.60 | Nom Vent | 38 | | 38 |
| | | | | | | | | | | | | AHU Vent | 38 | | 38 |
| Internal Loads | | | | - : | | | Internal Loa | ds | | | | Infil | 0 | | 0 |
| Lights | 3.348 | 0 | 3.348 | 23 | 3.348 | 34 | Lights | | 0 | (| 0.00 | Min Stop/Rh | 0 | | 0 |
| People | 2,250 | 0 | 2,250 | 16 | 1,250 | 13 | People | | 0 | (| 0.00 | Return | 622 | | 622 |
| Misc | 3,413 | 0 | 3,413 | 24 | 3,413 | 34 | Misc | | 0 | (| 0.00 | Exhaust | 38 | | 38 |
| Sub Total ==> | 9,011 | 0 | 9,011 | 63 | 8,011 | 80 | Sub Total | ==> | 0 | (| 0.00 | Rm Exh | 0 | | 0 |
| | | | | | | | | | | | | Auxiliary | 0 | | 0 |
| Ceiling Load | 199 | -199 | 0 | 0 | 221 | | Ceiling Load | | -153 | | | Leakage Dwn | 0 | | 0 |
| Ventilation Load | . 0 | | 3,612 | 25 | 0 | 0 | Ventilation I | | 0 | -1,296 | | Leakage Ups | 0 | | 0 |
| Adj Air Trans Hea | - 0 | | 0 | 0 | 0 | 0 | Adj Air Tran | | 0 | (| | | | | |
| Dehumid. Ov Sizi | | | 0 | 0 | | | Ov/Undr Siz | | 0 | | | | | | |
| Ov/Undr Sizing | 0 | -44 | 0 -44 | 0: | 0 | 0 | Exhaust He | | | 34 | | ENGI | NEERING C | KS | |
| Exhaust Heat Sup. Fan Heat | | -44 | -44 | 0: | | | : OA Preheat : RA Preheat | | | | | | Cooling | Heat | tina |
| Ret. Fan Heat | | 0 | 0 | 0: | | | Additional F | | | , | | % OA | 6.0 | | 6.0 |
| Duct Heat Pkup | | ő | 0 | 0: | | | System Plei | | | -626 | | cfm/ft² | 1.27 | 1 | 1.27 |
| Underfir Sup Ht P | kup | | ő | 0 | | | Underfir Su | | | (| 0.00 | cfm/ton | 523.25 | | |
| Supply Air Leakage | ie . | 0 | 0 | 0 | | | Supply Air I | _eakage | | (| 0.00 | ft²/ton | 412.28 | | |
| | | | | - : | | | | - | | | | Btu/hr-ft ² | 29.11 | -16 | 5.46 |
| Grand Total ==> | 10,826 | -163 | 14,275 | 100.00 | 9,952 | 100.00 | Grand Total | ==> | -6,251 | -8,072 | 100.00 | No. People | 5 | | |
| | | COOLING C | | | | | | | AREAS | | Н | EATING COIL | | | |
| | Total Capacity ton MBh | Sens Cap. Co MBh | il Airflow cfm | | DB/WB/HR F gr/lb | Leave °F | *F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
| Main Clg | 1.2 14.3 | 10.0 | 622 | 76.9 63 | .9 88.5 | 57.4 5 | 5.9 79.5 | Floor | 490 | | Main Htg | -8.1 | 622 | 66.8 | 81.0 |
| Aux Clg | 0.0 0.0 | 0.0 | 0 | | .0 0.0 | | 0.0 0.0 | Part | 403 | | Aux Htg | 0.0 | 0 | 0.0 | 0.0 |
| Opt Vent | 0.0 0.0 | 0.0 | 0 | 0.0 0 | .0 0.0 | 0.0 | 0.0 0.0 | Int Door | 0 0 | | Preheat | 0.0 | 0 | 0.0 | 0.0 |
| Total | 1.2 14.3 | | | | | | | ExFIr Roof | Ō | 0 0 | Humidif | 0.0 | 0 | 0.0 | 0.0 |
| | | | | | | | | Wall | 35 | 0 0 | Opt Vent | 0.0 | 0 | 0.0 | 0.0 |
| | | | | | | | | | | | | | | | |

Room Checksums By Trane

| PR | Area | 16 | Pasillo | sanitarios |
|----|------|----|---------|------------|

| | COOL | NG C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING O | COIL PEAK | | TEM | PERATURE | s | |
|--------------------|------------------|--------------|--------------------|---------------------|----------|------------------------|----------|----------------------|------------|-------------|------------------------------|----------|------------------------|---------------------|-----------|------|
| Peak | ed at Time | | Mo/ | Hr: 5 / 16 | | Mo/Hr: | 5/17 | | | Mo/Hr | Heating Design | | | Cooling | Heati | ina |
| | Outside Air | | | R: 86/85/2 | 31 | OADB: | | | | OADB: | | | SADB | 56.3 | | 0.4 |
| | Outoido / ui | | O/LDD/11D/1 | 0070072 | ٠. : | O/LDD. | - | | | O/IDD. | 02 | | Ra Plenum | 76.3 | | 9.0 |
| | c | pace | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil Dook | Percent | Return | 76.3 | | 9.0 |
| | Sens. + | | Sens. + Lat | | | | | | | | | | Ret/OA | 77.1 | | 5.7 |
| | | | | Total | Of Total | Sensible | Of Total | | | Space Sens | | Of Total | | 0.0 | | 0.0 |
| | - | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | | | Btu/h | Btu/h | (%) | Fn MtrTD | | | |
| Envelope Loads | | | | | | | | Envelope L | | | | | Fn BldTD | 0.0 | | 0.0 |
| Skylite Solar | | 0 | 0 | 0 | 0 : | 0 | 0 | Skylite S | | 0 | 0 | | Fn Frict | 0.0 | (| 0.0 |
| Skylite Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite C | | 0 | 0 | | | | | _ |
| Roof Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Roof Co | | 0 | 0 | | | | | |
| Glass Solar | | 325 | 0 | 325 | 3 | 286 | 4 | Glass So | | 0 | 0 | | A | IRFLOWS | | |
| Glass/Door Cond | | 83 | 0 | 83 | 1; | 74 | 1 : | | | -292 | -292 | | | Cooling | Heat | tina |
| Wall Cond | | 18 | 122 | 140 | 1; | 17 | 0 | Wall Cor | | -19 | -150 | | Diffuser | 422 | | 422 |
| Partition/Door | 1 | 1,812 | | 1,812 | 16 | 1,955 | 27 | Partition | /Door | -7,347 | -7,347 | 77.72 | | | | |
| Floor | | 0 | | 0 | 0 | 0 | 0 | Floor | | 0 | 0 | | Terminal | 422 | | 422 |
| Adjacent Floor | | 0 | 0 | 0 | 0 | 0 | 0 | Adjacen | t Floor | 0 | 0 | | Main Fan | 422 | ! | 422 |
| Infiltration | | 0 | | 0 | 0 | 0 | 0 | Infiltratio | n | 0 | 0 | 0.00 | Sec Fan | C |) | 0 |
| Sub Total ==> | 2 | 2.238 | 122 | 2.360 | 20 | 2.331 | 32 | Sub Tota | a/ ==> | -7,658 | -7,789 | 82.39 | Nom Vent | 38 | 1 | 38 |
| 000 1010 | _ | , | | -, | | _, | | | | -, | ., | | AHU Vent | 38 | | 38 |
| Internal Loads | | | | | | | | Internal Lo | ads | | | | | | | 0 |
| | | | | | | | | | | | | | Infil | | | |
| Lights | | 3,381 | 0 | 3,381 | 29 | 3,381 | 47 | Lights | | 0 | 0 | | Min Stop/Rh | C | | 0 |
| People | 2 | 2,250 | 0 | 2,250 | 19 | 1,250 | 17 | People | | 0 | 0 | | Return | 422 | | 422 |
| Misc | | 0 | 0 | 0 | 0 | 0 | 0 | Misc | | 0 | 0 | 0.00 | Exhaust | 38 | | 38 |
| Sub Total ==> | 5 | 5.631 | 0 | 5.631 | 49 | 4.631 | 64 | Sub Tota | a/ ==> | 0 | 0 | 0.00 | Rm Exh | C |) | 0 |
| | | , | | -, | | ., | | | | | | | Auxiliary | C |) | 0 |
| Ceiling Load | | 201 | -201 | 0 | 0 : | 223 | 3 | Ceiling Loa | ad | -155 | 0 | 0.00 | Leakage Dwn | C |) | 0 |
| Ventilation Load | | 0 | 0 | 3.610 | 31 | 0 | 0 | Ventilation | Load | 0 | -1,296 | 13.71 | Leakage Ups | 0 | 1 | 0 |
| Adi Air Trans Heat | | ō | - | 0,010 | 0 | 0 | 0 | Adi Air Tra | ns Heat | 0 | | 0 | Leanings ope | | | - |
| Dehumid, Ov Sizin | | U | | 0 | 0 | | | Ov/Undr Si | | 0 | 0 | | | | | _ |
| Ov/Undr Sizing | ıy | 0 | | 0 | 0 | 0 | | Exhaust He | | U | 34 | | ENOU | UEEDING O | | |
| Exhaust Heat | | U | -44 | -44 | 0: | U | U | OA Prehea | | | 0 | | ENGI | NEERING C | K5 | |
| Sup. Fan Heat | | | -44 | 0 | 0 | | | RA Prehea | | | 0 | | | Cooling | Heati | ina |
| Ret. Fan Heat | | | 0 | 0 | 0: | | | Additional | | | 0 | | % OA | 8.9 | | 8.9 |
| | | | 0 | 0 | 0: | | | System Ple | | | -402 | | cfm/ft² | 0.85 | | .85 |
| Duct Heat Pkup | | | U | 0 | 0: | | | | | | -402 | | | 437.69 | 0. | .00 |
| Underfir Sup Ht Pi | | | | | | | | Underfir S | | | | | cfm/ton | | | |
| Supply Air Leakag | e | | 0 | 0 | 0 | | | Supply Air | Leakage | | 0 | 0.00 | ft²/ton | 514.23 | | |
| | | | | | | | | | | | | | Btu/hr-ft ² | 23.34 | -19. | .09 |
| Grand Total ==> | | 3,070 | -123 | 11,558 | 100.00 | 7,185 | 100.00 | Grand Tota | a/ ==> | -7,813 | -9,454 | 100.00 | No. People | 5 | | |
| | | | COOLING | | | | | | | AREAS | | Н | EATING COIL | | | _ |
| | Total Cap ton | acity MBh | Sens Cap. (MBh | Coil Airflow cfm | | r DB/WB/HR °F gr/lb | | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F | Lv |
| Main Clg | 1.0 | 11.6 | 7.3 | 422 | 77.1 64 | 1.8 92.9 | 56.3 55 | 5.3 78.5 | Floor | 495 | ,, | Main Htg | -9.5 | 422 | 65.7 | 90. |
| Aux Clg | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | Part | 498 | | Aux Htg | 0.0 | 0 | 0.0 | 0. |
| Opt Vent | 0.0 | 0.0 | 0.0 | 0 | | | | 0.0 | Int Door | | | Preheat | 0.0 | 0 | 0.0 | 0. |
| | | | 0.0 | | 5.0 | 0.0 | 2.0 | 0.0 | ExFlr | ŏ | | | 0.0 | | | ٠. |
| Total | 1.0 | 11.6 | | | | | | | Roof | Ō | 0 0 | Humidif | 0.0 | 0 | 0.0 | 0. |
| | | | | | | | | | Wall | 54 | | Opt Vent | 0.0 | ő | 0.0 | 0. |
| | | | | | | | | | Ext Doo | | | Total | -9.5 | · | | ٥. |
| | | | | | | | | | II EXL DOO | | 0 0 | IOLAI | -9.5 | | | |

By Trane

PB Area 17 Bodeg

| PB Area 17 Bo | dega | | | | | | | | | | | | 1 | | | |
|---|------------------------------|-------------|-----------------------------|----------------------------------|----------------------------|----------------------------|---------------------|---|--------------------------|-----------------------------------|----------------------|--------------------------------------|---------------------------------|---------------------------------|----------------|----------------------|
| | COOLING | COIL | PEAK | | | CLG SPACE | PEAK | | | HEATING (| COIL PEAK | | TEM | IPERATURE | S | |
| | ked at Time: Outside Air: | 0 | | o/Hr: 5 / 16 /HR: 86 / 85 / 2 | 31 | Mo/Hr: OADB: | | : | | Mo/Hr: OADB: | Heating Design 32 | n | SADB Ra Plenum | Cooling 58.1 76.3 | | ting 78.3 69.0 |
| | Spa Sens. + La Btu | t. Sen | Plenum s. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) | Space Sensible Btu/h | Percent Of Total | i. | | Space Peak Space Sens Btu/h | | ak Percent ns Of Total I/h (%) | Return Ret/OA Fn MtrTD | 76.3 76.7 0.0 | | 69.0 67.3 0.0 |
| Envelope Loads Skylite Solar Skylite Cond | | 0 | 0 | 0 | 0: | 0 | (70) | Envelope L Skylite S | olar | 0 | Dit | 0 0.00 | Fn BldTD Fn Frict | 0.0 0.0 | | 0.0 |
| Roof Cond Glass Solar | | 0 | 0 | 0 | 0 | 0 | 0 | Roof Cor Glass So | d lar | 0 | | 0 0.00 | | IRFLOWS | | |
| Glass/Door Cond Wall Cond Partition/Door | | 0 | 0 | 0 296 | 0: | 0 319 | 13 | Wall Con Partition/ | d | -1,200 | -1,2 | 0 0.00 00 73.53 | Diffuser | Cooling 164 | | ating 164 |
| Floor Adjacent Floor Infiltration | | 0 0 0 | 0 | 0 0 0 | 0 0 0 | ō | 0 | Adjacent | | 0 0 0 | | 0 0.00 0 0.00 0 0.00 | Terminal Main Fan Sec Fan | 164 164 0 | | 164 164 0 |
| Sub Total ==> Internal Loads | 2! | 16 | 0 | 296 | 9 | 319 | 13 | Sub Tota | | -1,200 | -1,2 | 00 73.53 | AHU Vent | 8 8 | | 8 8 0 |
| Lights People | 7(4: | | 0 | 709 450 | 21 13 | 709 250 | 28 10 | Lights | | 0 | | 0 0.00 0 0.00 | Infil Min Stop/Rh Return | 164 | | 0 164 |
| Misc Sub Total ==> | 1,19 2,39 | | 0 | 1,195 2,353 | 36 70 | 1,195 2,153 | 47 85 | | / ==> | 0 | | 0 0.00 0 0.00 | Exhaust Rm Exh Auxiliary | 8 0 | | 8 0 0 |
| Ceiling Load Ventilation Load | | 0 | -42 0 | 0 723 | 0 21 | 0 | 2 | Ventilation | Load | -32 0 | -2 | 0 0.00 59 15.89 0 0 | Leakage Dwn Leakage Ups | C C | | 0 |
| Adj Air Trans Heat Dehumid. Ov Sizir Ov/Undr Sizing | | 0 | | 0 0 0 | 0 0 0 | _ | (| | ting at | 0 | | 0 0.00 7 -0.41 | ENGI | NEERING C | KS | |
| Exhaust Heat Sup. Fan Heat Ret. Fan Heat | | | -9 0 | -9 0 0 | 0 : 0 : 0 : | | | OA Preheat RA Preheat Additional | Diff. Reheat | | | 0 0.00 0 0.00 0 0.00 | % OA | Cooling 4.6 | | ting 4.6 |
| Duct Heat Pkup Underfir Sup Ht P Supply Air Leakag | | | 0 | 0 0 0 | 0 0 0 | | | System Ple Underfir Su Supply Air | p Ht Pkup | | -1 | 80 11.00 0 0.00 0 0.00 | cfm/ft² cfm/ton ft²/ton | 1.58 585.59 370.49 | | 1.58 |
| Grand Total ==> | 2,69 | 1 | -51 | 3,363 | 100.00 | 2,519 | 100.00 | Grand Tota | / ==> | -1,233 | -1,6 | 32 100.00 | Btu/hr-ft² No. People | 32.39 1 | -1 | 5.72 |
| | Total Capaci | y Ser | OOLING ns Cap. MBh | COIL SELE Coil Airflow | Ente | r DB/WB/HR °F gr/lb | Leav °F | e DB/WB/HR °F gr/lb | | AREAS Gross Total | Glass ft² (%) | Н | IEATING COIL Capacity MBh | SELECTIO Coil Airflow cfm | N Ent °F | Lvg °F |
| Main Clg Aux Clg | | 0 | 2.5 0.0 | 164 | 0.0 | 0.0 0.0 | | 0.0 0.0 | Floor Part | 104 81 | | Main Htg Aux Htg | -1.6 0.0 | 0 | 67.3 0.0 | 78.3 0.0 |
| Opt Vent Total | 0.0 0 | 4 | 0.0 | O | 0.0 (| 0.0 0.0 | 0.0 | 0.0 0.0 | Int Doo ExFIr Roof | 0 | 0 0 | Preheat Humidif | 0.0 | 0 | 0.0 | 0.0 |
| | | | | | | | | | Wall Ext Doo | 0 or 0 | 0 0 | Opt Vent Total | 0.0 -1.6 | 0 | 0.0 | 0.0 |

Valores para la selección del equipo de precisión del Site

| | COOLING | OIL PEAK | | CI | G SPACE | PEAK | | | HEATING C | OIL PEAK | | TEM | PERATURE | S |
|---|--------------------------------|--------------------------------|-----------------------|----------------------------|----------------------------|----------------------------|--|---------------------------|-----------------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------|----------------------|
| Pea | aked at Time: Outside Air: | Mo/H OADB/WB/HF | r: 5/20 R: 73/73/1 | 49 | Mo/Hr: OADB: | | | | Mo/Hr: H OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 55.0 76.3 | Heatin 70. 69. |
| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) | Space Sensible Btu/h | Percent Of Total (%) | | | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) | Return Ret/OA Fn MtrTD | 76.3 76.3 0.0 | 69. 68. 0. |
| Envelope Loads Skylite Solar Skylite Cond | 0 | 0 | 0 | 0: | 0 | 0 | Envelope L Skylite S Skylite C | olar | 0 | 0 | 0.00 | Fn BldTD Fn Frict | 0.0 0.0 | 0. |
| Roof Cond Glass Solar | 0 | 0 | 0 | 0: / | 0 | 0 | Roof Cor Glass So | nd Har | 0 | 0 | 0.00 | А | IRFLOWS | |
| Glass/Door Con Wall Cond Partition/Door | 1,668 0 | 889 | 2,557 0 | 0 3 0 | 1,668 0 | 2 | Glass/Do Wall Con Partition/ | d | -1,200 0 | -1,838 0 | 28.63 0.00 | Diffuser | Cooling 5,013 | 5,0 |
| Floor Adjacent Floor Infiltration | 0 0 0 | 0 | 0 0 0 | ď | 0 0 0 | 0 | Floor Adjacent Infiltration | | 0 | 0 0 0 | 0.00 | Terminal Main Fan Sec Fan | 5,013 5,013 0 | |
| Sub Total ==> | 1,668 | 889 | 2,557 | ß | 1,668 | 2 | Sub Tota | | -1,200 | -1,838 | 28.63 | Nom Vent AHU Vent | 15 15 | |
| nternal Loads Lights People | 4,853 900 | 0 | 4,853 900 | 5 | 4,853 500 | 5 1 | Lights | aus | 0 | 0 | | Infil Min Stop/Rh Return | 0 0 5.013 | 5,0 |
| Misc Sub Total ==> | 83,900 89,653 | 0 | 83,900 89,653 | 90 96 | 83,900 89,253 | 92 98 | Misc Sub Tota | /==> | 0 | 0 | | Exhaust Rm Exh Auxiliary | 15 0 | |
| Ceiling Load /entilation Load | 289 0 | -289 0 | 0 730 | 0 | 289 0 | 0 | Ceiling Loa Ventilation | Load | -222 0 | 0 -519 | 8.08 | Leakage Dwn Leakage Ups | 0 | |
| Adj Air Trans Hea Dehumid. Ov Sizi Dv/Undr Sizing | | | ŷ | 0: | 0 | - | Adj Air Trai Ov/Undr Si Exhaust He | zing | 0 | 0 0 13 | 0.00 | ENGI | NEERING C | v e |
| xhaust Heat Sup. Fan Heat | Ü | -18 0 | -14 | 0: 0: 0: | Ü | · | OA Preheat RA Preheat Additional | Diff. | | 0 | 0.00 | % OA | Cooling 0.3 | Heatin 0. |
| Ret. Fan Heat Ouct Heat Pkup Jnderfir Sup Ht F | | Ō | /8 | 0: | | | System Ple Underfir St | num Heat ıp Ht Pkup | | -4,078 0 | 63.51 0.00 | cfm/ft² cfm/ton | 7.05 647.39 | 7.0 |
| Supply Air Leaka Grand Total ==> | ge 91,610 | 0 582 | 92,923 | 100.00 | 91,210 | 100.00 | Supply Air Grand Tota | | -1,422 | -6,422 | | ft²/ton Btu/hr-ft² No. People | 91.81 130.71 2 | -9.0 |
| | | COOLING | | | | | | | AREAS | | Н | EATING COIL | | |
| - | Total Capacity ton MBh | MBh | oil Airflow cfm | | gr/lb | °F | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | MBh | Coil Airflow cfm | ent °F |
| Main Clg Aux Clg Opt Vent | 7.7 92.9 0.0 0.0 0.0 0.0 | 91.8 0.0 0.0 | 5,013 (| 0.0 0.0 | 60.0 0.0 0.0 | | D.6 60.0 D.0 0.0 D.0 0.0 | Floor Part Int Door | 711 0 | | Main Htg Aux Htg Preheat | -6.4 0.0 0.0 | 5,013 0 | 68.9 : 0.0 0.0 |
| Total | 7.7 92.9 | 0.0 | | 0.0 0.0 | 0.0 | 0.0 | J.U U.U | ExFIr Roof | 0 | | Humidif | 0.0 | 0 | 0.0 |
| · · | 32.3 | | | | | | | Wall | 265 | | Opt Vent | 0.0 | 0 | 0.0 |

PB Area 19 CECOM de Seguridad

| | COOLING | COIL | PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PE | AK | | TEM | PERATURE | S | |
|--|-------------------------------|--------|------------------------------|------------------------------|----------------------------|-------------------------------|----------------------------|------------------------|----------|-----------------------------------|------------------|-------------|----------------------------|------------------------------|-------------------------|-----------|-------------------|
| Pe | aked at Time: Outside Air: | c | | lr: 4 / 18 R: 79 / 79 / 1 | 84 | Mo/Hr: OADB: | | : | | Mo/Hr: OADB: | Heating De 32 | esign | | SADB Ra Plenum | Cooling 61.8 76.4 | | ng 1.2 9.0 |
| | Spac Sens. + La Btu | t. Ser | Plenum ns. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) | Space Sensible Btu/h | Percent Of Total (%) | 1 | | Space Peak Space Sens Btu/h | | | Percent Of Total (%) | Return Ret/OA Fn MtrTD | 76.4 76.5 0.0 | 69 | 9.0 8.8 0.0 |
| Envelope Loads Skylite Solar | | 0 | 0 | 0 | 0 | 0 | 0 | | lar | 0 | | 0 | 0.00 | Fn BldTD Fn Frict | 0.0 0.0 | | 0.0 0.0 |
| Skylite Cond Roof Cond Glass Solar | | 0 | 0 0 0 | 0 0 10.590 | 0 : 0 : 40 : | 0 0 10.996 | 0 0 44 | Roof Con | d | 0 0 0 | | 0 0 0 | 0.00 0.00 0.00 | | IRFLOWS | | = |
| Glass/Door Co | | | 0 | 51 | 0: | 10,996 | 0 | | | -348 | | -348 | 7.41 | _ ^ | | Una | 4: |
| Wall Cond | 7 | 2 | 484 | 556 | 2: | 62 | 0 | : Wall Con | 1 | -76 | | -599 | 12.75 | D.W. | Cooling 2.091 | | |
| Partition/Door | 37 | | | 374 | 1 | 204 | 1 | | Door | -1,763 | | -1,763 | 37.52 | Diffuser Terminal | 2,091 | | .09 .09 |
| Floor | | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | 0 | 0.00 | Main Fan | 2,091 | | 091 |
| Adjacent Floor Infiltration | | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | 0 | | Sec Fan | 2,031 | | ,00 |
| Sub Total ==> | 11,08 | | 484 | 11,572 | 44: | 11,279 | 45 | | | -2,188 | | -2.710 | 57.69 | Nom Vent | 15 | | 1 |
| oub rotar === | 11,00 | | 404 | 11,572 | | 11,270 | 40 | | | 2,100 | | _, | 01100 | AHU Vent | 15 | | 15 |
| Internal Loads | | | | | | | | Internal Loa | ds | | | | | Infil | | | |
| Lights | 2.86 | 2 | 0 | 2.862 | 11 | 2.862 | 11 | Lights | | 0 | | 0 | 0.00 | Min Stop/Rh | ō | | - |
| People | 90 | | Ö | 900 | 3: | 500 | 2 | | | Ö | | ő | | Return | 2,091 | 2 | 09 |
| Misc | 10,23 | 9 | 0 | 10,239 | 39 | 10,239 | 41 | Misc | | 0 | | 0 | 0.00 | Exhaust | 15 | | 1 |
| Sub Total ==> | 14,00 | 1 | 0 | 14,001 | 53 | 13,601 | 54 | Sub Total | ==> | 0 | | 0 | 0.00 | Rm Exh | 0 | | - |
| | | | | | | | | | | | | | | Auxiliary | 0 | | |
| Ceiling Load Ventilation Load | 19 | | -190 | 0 | 0 | 175 | 1 | | | -131 0 | | -519 | 0.00 11.04 | Leakage Dwn | 0 | | |
| Adi Air Trans He | | 0 | 0 | 946 | 4 : 0 : | 0 | 0 | Adj Air Tran | | 0 | | -519 | 0 | Leakage Ups | 0 | | |
| Dehumid, Ov Si | | 0 | | 0 | 0: | 0 | U | Ov/Undr Siz | | 0 | | 0 | | | | | _ |
| Ov/Undr Sizing | | D | | 0 | 0: | 0 | 0 | | | U | | 13 | -0.29 | ENGIN | NEERING C | V.C | |
| Exhaust Heat | | U | -20 | -20 | 0: | U | U | OA Preheat | | | | 0 | 0.00 | ENGIR | NEERING C | K5 | |
| Sup. Fan Heat | | | | 0 | 0: | | | RA Preheat | | | | 0 | 0.00 | | Cooling | Heati | |
| Ret. Fan Heat | | | 0 | Ō | 0: | | | Additional I | Reheat | | | . 0 | 0.00 | % OA | 0.7 | | 0.7 |
| Duct Heat Pkup | | | 0 | 0 | 0: | | | System Ple | | | | -1,483 | 31.56 | cfm/ft² | 4.99 | 4. | 99 |
| Underfir Sup Ht | | | | 0 | 0 | | | Underfir Su | | | | 0 | | cfm/ton | 946.95 | | |
| Supply Air Leak | age | | 0 | 0 | 0 ; | | | Supply Air | _eakage | | | 0 | 0.00 | ft²/ton | 189.88 | | |
| Grand Total ==> | 25,27 | 9 | 274 | 26,499 | 100.00 | 25,056 | 100.00 | Grand Tota | ==> | -2,318 | | -4,698 | 100.00 | Btu/hr·ft² No. People | 63.20 2 | -11. | 20 |
| | | | | COIL SELE | | | | | | AREAS | | | Н | EATING COIL | | | = |
| | Total Capacit ton ME | | ns Cap. C MBh | oil Airflow cfm | | r DB/WB/HR °F gr/lb | Leav °F | e DB/WB/HR °F gr/lb | | Gross Total | Glass | %) | | Capacity MBh | Coil Airflow cfm | Ent °F | Ly |
| Main Cla | 2.2 26. | 5 | 25.2 | 2.091 | 76.5 62 | .3 80.3 | 61.8 5 | 57.6 80.3 | Floor | 419 | | - [] | Main Htg | -4.7 | 2.091 | 68.8 | 71 |
| Aux Clg | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | Part | 120 | | - [] | Aux Htg | 0.0 | 0 | 0.0 | 0 |
| Opt Vent | 0.0 | 0 | 0.0 | 0 | 0.0 0 | 0.0 | 0.0 | 0.0 0.0 | Int Door | 0 | | | Preheat | 0.0 | 0 | 0.0 | 0 |
| Total | 2.2 26. | 5 | | | | | | | Roof | 0 | 0 | | Humidif | 0.0 | 0 | 0.0 | 0 |
| | | | | | | | | | Wall | 217 | 129 | 60 | Opt Vent | 0.0 | 0 | 0.0 | 0 |
| | | | | | | | | | Ext Doo | r 0 | 0 | 0 | Total | -4.7 | | | |

Room Checksums

By Trane

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING (| COIL P | EAK | | TEMP | ERATURE | S | |
|-------------------------------|-----------------------------|-----------------------|-----------------------------|---------------------|-------------------|---------------------|--------------|------------|--------------------------|-----------------|----------------------|----------|--------------------------------------|----------------------|------|----------------|
| | ed at Time: Outside Air: | Mo/H OADB/WB/HF | r: 5 / 15 t: 87 / 86 / 2 | 37 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating I 32 | Design | | SADB | Cooling 58.3 | | 72. |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | oil Peak fot Sens | | Ra Plenum Return Ret/OA | 76.1 76.1 76.5 | | 69 69 67 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | | Btu/h | (%) | Fn MtrTD | 0.0 | | 0 |
| nvelope Loads | | | 0 | | 0 | | Envelope I | | | | | 0.00 | Fn BldTD | 0.0 | | (|
| Skylite Solar Skylite Cond | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | 0 | 0.00 | Fn Frict | 0.0 | | (|
| Roof Cond | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | 0 | 0.00 | | | | = |
| Glass Solar | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | 0 | 0.00 | Δ11 | RFLOWS | | |
| Glass/Door Cond | 0 | 0 | 0 | 0 | 0 | ő | | oor Cond | 0 | | 0 | 0.00 | _ All | | | |
| Wall Cond | ő | ő | 0 | 0: | 0 | 0 | | | 0 | | ő | 0.00 | | Cooling | | ea |
| Partition/Door | 125 | | 125 | 2: | 157 | 3 | | | -575 | | -575 | 38.64 | Diffuser | 348 | | |
| Floor | 0 | | 0 | 0: | 0 | ő | | 5001 | 0 | | 0 | 0.00 | Terminal | 348 | | |
| Adjacent Floor | ō | 0 | 0 | 0: | 0 | 0 | | t Floor | ō | | ō | 0.00 | Main Fan | 348 | | |
| Infiltration | ō | | ō | 0: | ō | ō | | | 0 | | ō | 0.00 | Sec Fan | 0 | | |
| Sub Total ==> | 125 | 0 | 125 | 2 | 157 | 3 | Sub Total | a/ ==> | -575 | | -575 | 38.64 | Nom Vent | 15 | | |
| | | | | | | | | | | | | | AHU Vent | 15 | | |
| ternal Loads | | | | : | | | Internal Lo | ads | | | | | Infil | | | |
| ights | 2.112 | 0 | 2.112 | 30 | 2.112 | 40 | Lights | | 0 | | 0 | 0.00 | Min Stop/Rh | 0 | | |
| eople | 900 | 0 | 900 | 13 | 500 | 9 | | | 0 | | 0 | 0.00 | Return | 348 | | |
| Misc | 2.389 | 0 | 2,389 | 34 | 2.389 | 45 | | | 0 | | 0 | 0.00 | Exhaust | 15 | | |
| Sub Total ==> | 5.401 | 0 | 5.401 | 77 | 5.001 | 94 | | 1 | 0 | | 0 | 0.00 | Rm Exh | 0 | | |
| Sub Total ==> | 5,401 | U | 5,401 | " | 5,001 | 94 | Sub lott | 11 ==> | U | | U | 0.00 | Auxiliary | ō | | |
| eiling Load | 105 | -105 | 0 | 0 : | 139 | 3 | Ceiling Lo | ad | -97 | | 0 | 0.00 | Leakage Dwn | 0 | | |
| entilation Load | 0 | 0 | 1.515 | 22 | 0 | 0 | Ventilation | | 0 | | -519 | 34.82 | Leakage Ups | 0 | | |
| di Air Trans Heat | . 0 | | 0 | 0: | 0 | 0 | Adj Air Tra | ns Heat | 0 | | 0 | 0 | Louinago opo | | | |
| ehumid. Ov Sizir | | | 0 | 0 | | U | Ov/Undr S | | 0 | | 0 | 0.00 | | | | = |
| //Undr Sizing | . 0 | | 0 | 0: | 0 | 0 | Exhaust H | | | | 13 | -0.90 | ENCIN | EERING C | ve | |
| chaust Heat | U | -15 | -15 | 0: | U | U | OA Prehea | | | | 0 | 0.00 | ENGIN | EERING C | N3 | |
| Jp. Fan Heat | | | 0 | 0: | | | RA Prehea | | | | ō | 0.00 | | Cooling | Hea | at |
| et. Fan Heat | | 0 | 0 | 0: | | | Additional | Reheat | | | 0 | 0.00 | % OA | 4.3 | | |
| ict Heat Pkup | | 0 | 0 | 0: | | | : System Ple | enum Heat | | | -409 | 27.44 | cfm/ft² | 1.12 | | 1 |
| derfir Sup Ht Pi | кир | | 0 | 0 | | | Underfir S | up Ht Pkup | | | 0 | 0.00 | cfm/ton | 594.25 | | |
| pply Air Leakag | e | 0 | 0 | 0 : | | | Supply Air | Leakage | | | 0 | 0.00 | ft²/ton | 528.47 | | |
| rand Total ==> | 5,632 | -120 | 7,027 | 100.00 | 5,298 | 100.00 | Grand Total | a/ ==> | -672 | | -1,489 | 100.00 | Btu/hr·ft ² No. People | 22.71 2 | - | -4 |
| | | COOLING | OII SELE | CTION | | | | 1 | AREAS | | | ш | EATING COIL | SELECTIO | N | = |
| | Total Capacity | | oil Airflow | | DB/WB/HR | Leav | e DB/WB/HR | II a | Gross Total | Glass | | | Capacity (| | Ent | |
| | ton MBh | MBh | cfm | | °F gr/lb | °F | °F gr/lb | | oross rotar | | (%) | | MBh | cfm | °F | |
| in Cla | 0.6 7.0 | 5.3 | 348 | 76.5 63 | .4 86.1 | 58.3 5 | 6.3 80.0 | Floor | 309 | | | Main Hta | -1.5 | 348 | 67.4 | |
| ıx Cla | 0.0 0.0 | 0.0 | 340 | | | | 0.0 0.0 | Part | 39 | | | Aux Hta | 0.0 | 0 | 0.0 | |
| ot Vent | 0.0 0.0 | 0.0 | , | | | | 0.0 0.0 | Int Door | 0 | | | Preheat | 0.0 | 0 | 0.0 | |
| r vent | 0.0 | 0.0 | | u.0 u | .0 0.0 | 0.0 | 0.0 | ExFlr | 0 | | | rieneal | 0.0 | U | 0.0 | |
| tal | 0.6 7.0 | | | | | | | Roof | 0 | 0 | 0 | Humidif | 0.0 | 0 | 0.0 | |
| tar | 0.0 7.0 | | | | | | | Wall | 0 | Ö | | Opt Vent | 0.0 | 0 | 0.0 | |
| | | | | | | | | | - | - | - 11 | | | | | |

PB Area 21 Lockers

| | COOLING | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING O | OIL PEAK | | TEM | PERATURE | s |
|--------------------|------------------------------|-----------------------|-------------------------------|--------------|-------------------|--------------|---------------------------|----------|---------------------|----------------------|-----------------|-------------------------------|----------------------|----------------------|
| | ked at Time: Outside Air: | | Hr: 5 / 18 IR: 80 / 80 / 1 | 94 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB | Cooling 58.4 | Heating 76.1 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net | Percent | Space | Percent | | | Space Peak | Coil Peak | | Ra Plenum Return Ret/OA | 76.5 76.5 76.7 | 69.0 69.0 67.3 |
| | Btu/h | Btu/h | Total Btu/h | Of Total (%) | Sensible Btu/h | Of Total (%) | | | Space Sens Btu/h | lot Sens Btu/h | Of Total (%) | Fn MtrTD | 0.0 | 0.0 |
| Envelope Loads | Blu/II | Blu/II | Blu/II | (%) | Blu/II | (70) | Envelope Le | nade | Blu/II | Blu/II | (70) | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar | 0 | 0 | 0 | 0: | 0 | 0 | Skylite So | | 0 | 0 | 0.00 | Fn Frict | 0.0 | 0.0 |
| Skylite Cond | o o | ō | ō | 0: | 0 | 0 | Skylite Co | | Ö | Ö | | 1111100 | 0.0 | 0.0 |
| Roof Cond | Ō | Ō | ō | 0: | Ō | 0 | Roof Con | | Ō | 0 | | | | |
| Glass Solar | 2,663 | 0 | 2,663 | 42 | 2,797 | 58 | Glass Sol | lar | 0 | 0 | | A | IRFLOWS | |
| Glass/Door Cond | | 0 | 16 | 0 : | 13 | 0 | Glass/Do | | -87 | -87 | | | Cooling | Heating |
| Wall Cond | 205 | 223 | 429 | 7: | 198 | 4 : | | | -211 | -443 | | Diffuser | 318 | 318 |
| Partition/Door | 355 | | 355 | 6: | 303 | 6 | Partition/I | Door | -1,429 | -1,429 | | | | 318 |
| Floor | 0 | | 0 | 0 | 0 | 0 | | | 0 | 0 | | Terminal Main Fan | 318 318 | 318 318 |
| Adjacent Floor | 0 | 0 | 0 | 0 : | 0 | 0 | Adjacent | | 0 | 0 | | Sec Fan | 0 | |
| Infiltration | | 222 | 0 | 0 : | 0 | 0 | Infiltration Sub Total | | -1.726 | 0 | | | | 0 |
| Sub Total ==> | 3,240 | 223 | 3,464 | 55 : | 3,311 | 69 | Sub rotal | ==> | -1,726 | -1,959 | 76.52 | Nom Vent | 15 | 15 |
| Internal Locate | | | | | | | Internal Loa | ude | | | | AHU Vent | 15 | 15 0 |
| Internal Loads | | | | | | | | ius | | _ | | Infil | 0 | |
| Lights | 937 | 0 | 937 | 15 | 937 | 19 | Lights | | 0 | 0 | | Min Stop/Rh | 0 | 0 318 |
| People | 900 | 0 | 900 | 14 | 500 | 10 | | | 0 | 0 | | Return | 318 15 | 15 |
| Misc | 0 | 0 | 0 | 0 | 0 | 0 | Misc | | 0 | 0 | | Exhaust | 15 | 15 |
| Sub Total ==> | 1,837 | 0 | 1,837 | 29 | 1,437 | 30 | Sub Total | ==> | 0 | 0 | 0.00 | Rm Exh Auxiliary | 0 | 0 |
| Ceiling Load | 64 | -64 | 0 | 0: | 62 | 1 | Ceiling Loa | d | -43 | 0 | 0.00 | Leakage Dwn | 0 | 0 |
| Ventilation Load | 0 | 0 | 1.055 | 17 | 0 | 0 | Ventilation I | Load | 0 | -519 | 20.26 | Leakage Ups | 0 | 0 |
| Adj Air Trans Heat | . 0 | | 0 | 0: | 0 | 0 | Adj Air Tran | s Heat | 0 | 0 | 0 | | | |
| Dehumid, Ov Sizin | na | | 0 | 0: | | - : | Ov/Undr Siz | zina | 0 | 0 | 0.00 | | | |
| Ov/Undr Sizing | 0 | | ō | 0: | 0 | 0 | Exhaust He | at | | 13 | | ENGIN | NEERING CI | KS |
| Exhaust Heat | | -20 | -20 | 0 : | | | OA Preheat | | | 0 | | | | |
| Sup. Fan Heat | | | 0 | 0: | | | RA Preheat | | | 0 | | | Cooling | Heating |
| Ret. Fan Heat | | 0 | 0 | 0: | | | Additional F | | | 0 | | % OA | 4.7 | 4.7 |
| Duct Heat Pkup | | 0 | 0 | 0: | | | System Plea | | | -96 | | cfm/ft² | 2.32 | 2.32 |
| Underfir Sup Ht Pi | | | 0 | 0 | | | Underfir Su | | | 0 | | cfm/ton | 603.26 | |
| Supply Air Leakag | je | 0 | 0 | 0 | | | Supply Air I | Leakage | | 0 | 0.00 | ft²/ton Btu/hr-ft² | 260.06 46.14 | -18.64 |
| Grand Total ==> | 5,142 | 139 | 6,335 | 100.00 | 4,810 | 100.00 | Grand Total | / ==> | -1,769 | -2,560 | 100.00 | No. People | 40.14 | -18.04 |
| | | COOLING | COIL SELE | спои | | | | | AREAS | | н | EATING COIL | SELECTIO | N |
| | Total Capacity | Sens Cap. | Coil Airflow | | DB/WB/HR | | DB/WB/HR | | Gross Total | Glass | | Capacity | Coil Airflow | Ent Lvg |
| | ton MBh | MBh | cfm | °F | °F gr/lb | °F | °F gr/lb | | | ft² (%) | | MBh | cfm | °F °F |
| Main Clg | 0.5 6.3 | 5.0 | 318 | 76.7 63 | 1.2 84.7 | 58.4 56 | 6.2 79.1 | Floor | 137 | | Main Htg | -2.6 | 318 | 67.3 76.1 |
| | 0.0 0.0 | 0.0 | 310 | | 0.0 0.0 | | 0.0 0.0 | Part | 97 | | Aux Htg | 0.0 | 0 | 0.0 0.0 |
| | 0.0 0.0 | 0.0 | 0 | | 0.0 | | 0.0 0.0 | Int Door | | | Preheat | 0.0 | 0 | 0.0 0.0 |
| Opt vent | 0.0 | 0.0 | 0 | 0.0 0 | 0.0 | 0.0 | 0.0 | ExFlr | 0 | | reneat | 0.0 | 0 | 0.0 0.0 |
| Total | 0.5 6.3 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 0.0 |
| | | | | | | | | Wall | 96 | 32 34 | Opt Vent | 0.0 | 0 | 0.0 0.0 |
| | | | | | | | | Ext Doo | r 0 | 0 0 | Total | -2.6 | | |
| | | | | | | | | 2.11 200 | . • | - " | | | | |

Room Checksums

| | COOLING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PEAK | | TEMP | PERATURE: | S |
|--------------------------------|---------------------------|-------------------|------------------------------|----------|---------------------|----------|----------------------|--------------|-----------------|----------------------|---------------------|--------------------------|-------------------------|-------------------------|
| | d at Time: utside Air: | Mo/F OADB/WB/H | lr: 6 / 18 R: 78 / 78 / 1 | 81 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 61.4 76.4 | Heating 71.5 69.0 |
| | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil Peak | Percent | Return | 76.4 | 69.0 |
| | Sens. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | Tot Sens | Of Total | Ret/OA | 76.4 | 68.7 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | : | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | 0.0 |
| Envelope Loads | | | | | | | Envelope L | | | | 0.00 | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar | 0 | 0 | 0 | 0 : | 0 | 0 | Skylite S | | 0 | 0 | | Fn Frict | 0.0 | 0.0 |
| Skylite Cond | 0 | 0 | 0 | 0 | 0 | 0 | Skylite C | | 0 | 0 | | | | |
| Roof Cond | | 0 | | 0 | | | Roof Co | | | 0 | | | RFLOWS | |
| Glass Solar Glass/Door Cond | 6,382 | | 6,382 | 29 | 6,382 | 32 | Glass So | | -349 | -349 | | All | RELOWS | |
| Wall Cond | 43 64 | 0 427 | 43 490 | 0; | 43 64 | 0 | Glass/Do | | -349 -77 | -349 -601 | | | Cooling | Heatin |
| Partition/Door | 291 | 427 | 291 | 1 | 291 | 1 | | | -1.642 | -1.642 | | Diffuser | 1,628 | 1,62 |
| Floor | 291 | | 291 | 0 | 291 | 0 | | Door | -1,042 | -1,042 | | Terminal | 1.628 | 1.62 |
| Adjacent Floor | 0 | 0 | 0 | 0: | 0 | 0 | Adjacent | Floor | 0 | 0 | | Main Fan | 1,628 | 1,62 |
| Infiltration | 0 | U | 0 | 0: | 0 | 0 | Infiltratio | | 0 | 0 | | Sec Fan | 0 | |
| | 6.779 | 427 | 7.206 | 33 | 6.779 | 34 | Sub Tota | | -2.068 | -2.593 | | | 15 | |
| Sub Total ==> | 6,779 | 427 | 7,206 | 33 | 6,779 | 34 | Sub rote | / ==> | -2,000 | -2,593 | 02.34 | Nom Vent | | |
| | | | | : | | | Internal Lo | ade | | | | AHU Vent | 15 | |
| nternal Loads | | | | | | | | ids | | | | Infil | 0 | |
| Lights | 2,477 | 0 | 2,477 | 11 | 2,477 | 12 | Lights | | 0 | 0 | | Min Stop/Rh | 0 | |
| People | 900 | 0 | 900 | 4 | 500 | 2 | People | | 0 | 0 | | Return | 1,628 | |
| Misc | 10,239 | 0 | 10,239 | 47 | 10,239 | 51 | Misc | | 0 | 0 | 0.00 | Exhaust | 15 | |
| Sub Total ==> | 13,616 | 0 | 13,616 | 63 | 13,216 | 66 | Sub Tota | ==> | 0 | 0 | 0.00 | Rm Exh | 0 | |
| | | | | - : | | | | | | | | Auxiliary | 0 | |
| Ceiling Load | 163 | -163 | 0 | 0 | 163 | 1 | Ceiling Loa | | -113 | 0 | | Leakage Dwn | 0 | |
| Ventilation Load | 0 | 0 | 914 | 4: | 0 | 0 | Ventilation | | 0 | -519 | | Leakage Ups | 0 | |
| Adj Air Trans Heat | 0 | | 0 | 0 | 0 | 0 | Adj Air Tra | ıs Heat | 0 | 0 | | | | |
| Dehumid. Ov Sizing | | | 0 | 0 | | | Ov/Undr Si | zing | 0 | 0 | | | | |
| Ov/Undr Sizing | 0 | | 0 | 0 : | 0 | 0 | Exhaust He | at | | 13 | | ENGIN | EERING CH | KS |
| Exhaust Heat | | -19 | -19 | 0 | | | OA Preheat | | | 0 | | | | |
| Sup. Fan Heat | | | 0 | 0; | | | RA Preheat | | | 0 | | | Cooling | Heating |
| Ret. Fan Heat | | 0 | 0 | 0: | | | Additional | | | 0 | | % OA | 0.9 | 0.9 |
| Duct Heat Pkup | | 0 | 0 | 0 | | | System Ple | | | -1,048 | | cfm/ft² | 4.49 | 4.49 |
| Underfir Sup Ht Pku | р | | 0 | 0 | | | Underfir Si | | | 0 | | cfm/ton | 899.44 | |
| Supply Air Leakage | | 0 | 0 | 0 ; | | | Supply Air | Leakage | | 0 | 0.00 | ft²/ton | 200.49 | |
| Grand Total ==> | 20,558 | 245 | 21,717 | 100.00 | 20,158 | 100.00 | Grand Tota | / ==> | -2,181 | -4,146 | 100.00 | Btu/hr·ft² No. People | 59.85 2 | -11.43 |
| | | COOLING | COIL SELE | CTION | | | | | AREAS | | | EATING COIL | SELECTION | N |
| T to | otal Capacity on MBh | | coil Airflow | Enter | DB/WB/HR = gr/lb | | DB/WB/HR °F gr/lb | | Gross Total | Glass ft² (%) | " | | Coil Airflow cfm | Ent L |
| Main Clg 1. | .8 21.7 | 20.5 | 1.628 | 76.4 62. | 3 80.3 | 61.4 5 | 7.5 80.3 | Floor | 363 | | Main Htg | -4.2 | 1,628 | 68.7 7 |
| Aux Clg 0 | | 0.0 | 1,020 | | | | 0.0 | Part | 111 | | Aux Htg | 0.0 | | 0.0 |
| Opt Vent 0. | | 0.0 | | | | | 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 |
| ADEAGUE U | 0.0 | U.U | | 0.0 0. | 0.0 | 0.0 | u.u u.u | | 0 | | rieneat | 0.0 | U | 0.0 |
| | | | | | | | | | | | | | | |
| Total 1 | 0 217 | | | | | | | ExFir | | 0 0 | Llumidif | 0.0 | 0 | 0.0 |
| Total 1. | .8 21.7 | | | | | | | Roof Wall | 0 217 | 0 0 130 60 | Humidif Opt Vent | 0.0 | 0 | 0.0 |

PB Area 23 Defensoria

| PB Area 23 De | rensoria | | | | | | | | | | | | | | |
|--|--------------------------------|--------------------------------|----------------------------------|----------------------------|----------------------------|----------------------------|--|-----------------|-----------------------------------|-----------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------|------------------|
| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PEAK | | TEM | PERATURE | S | |
| Pea | ked at Time: Outside Air: | | /Hr: 6 / 18 /HR: 78 / 78 / 1 | 81 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 58.3 76.4 | Heatir 70 69 | 0.5 |
| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) | Space Sensible Btu/h | Percent Of Total (%) | : | | Space Peak Space Sens Btu/h | Coil Pea Tot Sen Btu/ | | Return Ret/OA Fn MtrTD | 76.4 76.5 0.0 | 69 67 | 9.0 |
| Envelope Loads Skylite Solar Skylite Cond | 0 | 0 | 0 | 0: | 0 | 0 | | olar | 0 | | 0 0.00 | Fn BldTD Fn Frict | 0.0 0.0 | |).0).0 |
| Roof Cond Glass Solar Glass/Door Cond | 0 12,711 1 86 | 0 0 0 | 0 12,711 86 | 0: 27: 0: | 0 12,711 86 | 0 35 0 | Glass So | lar | 0 0 -696 | | 0 0.00 0 0.00 6 9.53 | А | IRFLOWS | | |
| Wall Cond Partition/Door Floor | 127 0 | 850 | 977 0 | 2: 0: 0: | 127 0 | 0 | Wall Con | d | -153 0 | -1,19 | | Diffuser Terminal | 2,411 2,411 | 2, | ,411 ,411 |
| Adjacent Floor Infiltration | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent Infiltratio | n | 0 | | 0.00 0 0.00 | Main Fan Sec Fan | 2,411 0 | 2, | 411 0 |
| Sub Total ==> Internal Loads | 12,925 | 850 | 13,775 | 29 | 12,925 | 35 | Sub Tota | | -849 | -1,89 | 4 25.93 | Nom Vent AHU Vent Infil | 120 120 0 | | 120 120 0 |
| Lights People Misc | 5,520 7,200 13,823 | 0 0 0 | 5,520 7,200 13.823 | 12 15 29 | 5,520 4,000 13.823 | 15 11 38 | People | | 0 0 0 | | 0 0.00 0 0.00 0 0.00 | Min Stop/Rh Return Exhaust | 0 2,411 120 | 2, | 0 411, 120 |
| Sub Total ==> Ceiling Load | 26,542 362 | -362 | 26,542 | 56 | 23,342 | 64 | | | 0 -252 | | 0 0.00 | Rm Exh Auxiliary Leakage Dwn | 0 | | 0 |
| Ventilation Load Adj Air Trans Hea | t 0 | -362 | 7,312 0 | 15 0 | 0 0 | 0 | Ventilation Adj Air Trai | Load ns Heat | 0 | -4,14 | 9 56.80 0 0 | Leakage Ups | 0 | | 0 |
| Dehumid. Ov Sizi Ov/Undr Sizing Exhaust Heat | ng 0 | -154 | 0 0 -154 | 0: 0: | 0 | 0 | Ov/Undr Si Exhaust He OA Preheat | eat | 0 | 10 | 0 0.00 8 -1.47 0 0.00 | ENGI | NEERING CI | | |
| Sup. Fan Heat Ret. Fan Heat Duct Heat Pkup | | 0 | 0 0 0 | 0: 0: 0: | | | : RA Preheat : Additional : System Ple | Reheat | | | 0 0.00 0 0.00 9 18.74 | % OA cfm/ft² | Cooling 5.0 2.98 | Heatir 5 2.9 | 5.0 |
| Underfir Sup Ht P Supply Air Leaka | | 0 | 0 | 0 | | | Underfir Su Supply Air | | | | 0 0.00 0 0.00 | cfm/ton ft²/ton Btu/hr-ft² | 609.35 204.39 58.71 | -9.0 | 03 |
| Grand Total ==> | 39,829 | 333 | 47,475 | 100.00 | 36,629 | 100.00 | Grand Tota | / ==> | -1,101 | -7,30 | 4 100.00 | No. People | 16 | | |
| | Total Capacity ton MBh | COOLING Sens Cap. MBh | COIL SELE Coil Airflow cfm | Enter | r DB/WB/HR °F gr/lb | Leav °F | e DB/WB/HR °F gr/lb | | AREAS Gross Total | Glass ft² (%) | н | EATING COIL Capacity MBh | SELECTIO Coil Airflow cfm | | Lvg °F |
| Main Clg Aux Clg | 4.0 47.5 0.0 0.0 | 37.3 0.0 | 2,411 0 0 | | 0.0 | | 0.0 0.0 | Floor Part | 809 0 | | Main Htg Aux Htg | -7.3 0.0 | 0 | 0.0 | 70.5 |
| Opt Vent Total | 0.0 0.0 4.0 47.5 | 0.0 | 0 | 0.0 0 | 0.0 0.0 | 0.0 | 0.0 0.0 | ExFIr Roof | 0 | 0 0 | Preheat Humidif | 0.0 | 0 | 0.0 | 0.0 |
| | | | | | | | | Wall Ext Doo | 433 r 0 | 258 60 0 0 | Opt Vent Total | 0.0 -7.3 | 0 | 0.0 | 0.0 |

Room Checksums

| | CO | DLING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | | TEMP | PERATURE | S | |
|-------------------------------|---------------------|---------------------|-----------------------|-------------------------|---------------------|---------------------|---------------------|-----------------------|----------|--------------------------|------------------------------|--------|-------|--------------------------|-------------------------|-----------|--------------|
| Pea | ked at T Outside | | | Hr: 5/15 IR: 87/86/2 | 37 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | n | | SADB Ra Plenum | Cooling 56.8 76.1 | | 70.1 69.0 |
| | Sen | Space is. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | ak Per | | Return Ret/OA | 76.1 76.9 | | 69. 66. |
| | | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu | ı/h | (%) | Fn MtrTD | 0.0 | | 0. |
| nvelope Loads | | _ | | | | | | Envelope L | | | | _ | | Fn BldTD | 0.0 | | 0 |
| Skylite Solar | | 0 | 0 | 0 | 0: | 0 | 0 | Skylite S | | 0 | | | 0.00 | Fn Frict | 0.0 | | 0 |
| Skylite Cond Roof Cond | | 0 | 0 | 0 | 0: | 0 | 0 | Skylite C Roof Cor | | 0 | | | 0.00 | | | | = |
| Glass Solar | | 0 | 0 | 0 | 0: | 0 | 0 | Glass So | | 0 | | | 0.00 | | RFLOWS | | |
| Glass Solar Glass/Door Con | | 0 | 0 | 0 | 0: | 0 | 0 : | Glass/Do | | 0 | | | 0.00 | AI | | | |
| Wall Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Wall Con | | 0 | | | 0.00 | | Cooling | He | at |
| Partition/Door | | 0 | U | 0 | 0: | 0 | 0 | Partition/ | | 0 | | | 0.00 | Diffuser | 276 | | |
| Floor | | 0 | | 0 | 0: | 0 | 0 | Floor | DOOL | 0 | | | 0.00 | Terminal | 276 | | |
| Adjacent Floor | | 0 | 0 | 0 | 0: | 0 | 0 | Adjacent | Eleor | 0 | | | 0.00 | Main Fan | 276 | | |
| Infiltration | | 0 | U | 0 | 0: | 0 | 0 | Infiltration | | 0 | | | 0.00 | Sec Fan | 0 | | |
| | | 0 | 0 | 0 | 0: | 0 | 0 | Sub Tota | | 0 | | | 0.00 | Nom Vent | 23 | | |
| Sub Total ==> | | U | U | U | · : | U | 0 | . Sub rota | 1 | U | | U | 0.00 | | | | |
| | | | | | : | | | Internal Lo | arte | | | | | AHU Vent | 23 | | |
| nternal Loads | | | | | - : | | | | aus | | | | | Infil | 0 | | |
| Lights | | 387 | 0 | 387 | 5 | 387 | 8 | Lights | | 0 | | | 0.00 | MinStop/Rh | 0 | | |
| People | | 1,350 | 0 | 1,350 | 18 | 750 | 16 | People | | 0 | | | 0.00 | Return | 276 | | |
| Misc | | 3,413 | 0 | 3,413 | 46 | 3,413 | 75 | Misc | | 0 | | 0 | 0.00 | Exhaust | 23 | | |
| Sub Total ==> | | 5,150 | 0 | 5,150 | 70 | 4,550 | 99 | Sub Tota | / ==> | 0 | | 0 | 0.00 | Rm Exh | 0 | | |
| | | | | | - : | | | | | | | | | Auxiliary | 0 | | |
| eiling Load | | 19 | -19 | 0 | 0 : | 26 | 1 | Ceiling Loa | | -18 | _ | | 0.00 | Leakage Dwn | 0 | | |
| entilation Load | | 0 | 0 | 2,271 | 31; | 0 | 0 ; | Ventilation | | 0 | -7 | | 6.05 | Leakage Ups | 0 | | |
| dj Air Trans Hea | t | 0 | | 0 | 0 : | 0 | 0 | : Adj Air Trar | ıs Heat | 0 | | 0 | 0 | | | | |
| Dehumid. Ov Sizi | ng | | | 0 | 0 | | | Ov/Undr Si | | 0 | | | 0.00 | | | | = |
| v/Undr Sizing | | 0 | | 0 | 0: | 0 | 0 : | Exhaust He | at | | | | -1.97 | ENGIN | EERING C | KS | |
| xhaust Heat | | | -22 | -22 | 0 : | | | OA Preheat | | | | | 0.00 | | | | |
| up. Fan Heat | | | | 0 | 0: | | | : RA Preheat | | | | | 0.00 | | Cooling | Hea | |
| et. Fan Heat | | | 0 | 0 | 0: | | | Additional | | | _ | | 0.00 | % OA | 8.2 | | 8 |
| uct Heat Pkup | | | 0 | 0 | 0 : | | | System Ple | | | -2 | | 25.93 | cfm/ft² | 4.87 | | 4. |
| nderfir Sup Ht P | | | | 0 | 0 | | | Underfir Su | | | | | 0.00 | cfm/ton | 447.70 | | |
| upply Air Leaka | je | | 0 | 0 | 0 : | | | Supply Air | Leakage | | | 0 | 0.00 | ft²/ton | 91.97 | | |
| Grand Total ==> | | 5,169 | -41 | 7,399 | 100.00 | 4,577 | 100.00 | Grand Tota | / ==> | -18 | -1,0 | 23 10 | 00.00 | Btu/hr·ft² No. People | 130.48 3 | -1 | 8.0 |
| | | | COOLING | COIL SELE | спои | | | | | AREAS | | 1 | HE | ATING COIL | SELECTIO | N | = |
| | Total (| Capacity MBh | Sens Cap. (MBh | Coil Airflow cfm | | DB/WB/HR F gr/lb | | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | | Capacity MBh | Coil Airflow cfm | Ent °F | |
| lain Clg | 0.6 | 7.4 | 4.8 | 276 | 76.9 64 | .6 92.3 | 56.8 55 | 5.3 77.8 | Floor | 57 | | Main | Hta | -1.0 | 276 | 66.0 | |
| ux Cla | 0.0 | 0.0 | 0.0 | 0 | | | | 0.0 0.0 | Part | 0 | | Aux I | | 0.0 | 0 | 0.0 | |
| pt Vent | 0.0 | 0.0 | 0.0 | 0 | | | | 0.0 0.0 | Int Door | 0 | | Prehe | | 0.0 | 0 | 0.0 | |
| pr venr | J.U | u.u | U.U | U | 0.0 0 | .0 0.0 | 0.0 (| 0.0 | ExFIr | 0 | | Frence | odt | 0.0 | U | U.U | |
| otal | 0.6 | 7.4 | | | | | | | Roof | 0 | 0 0 | Humi | idif | 0.0 | 0 | 0.0 | |
| ola: | 0.0 | 7.4 | | | | | | | Wall | 0 | 0 0 | Opt V | | 0.0 | 0 | 0.0 | |
| | | | | | | | | | Ext Door | - | 0 0 | Total | | -1.0 | U | 0.0 | |
| | | | | | | | | | | | | | | | | | |

By Trane

PB Area 25 Archivo Papeleria Defensoria

| | COOLING | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | TEM | PERATURE | s |
|-------------------|-------------------------------|-------------|---------------------------------|----------|-----------------|----------|---------------|---------------|-------------------|----------------------|------------|---------------------|-------------------------|-------------------------|
| Pe | aked at Time: Outside Air: | | /Hr: 5 / 15 HR: 87 / 86 / 23 | 37 | Mo/Hr: OADB: | | | | Mo/Hr: F OADB: | Heating Design 32 | | SADB | Cooling 58.3 76.1 | Heating 70.3 69.0 |
| | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil Boa | k Percent | Ra Plenum Return | 76.1 76.1 | 69.0 |
| | Sens. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | | s Of Total | Ret/OA | 76.6 | 67.3 |
| | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | | | Btu/h | Btu | | Fn MtrTD | 0.0 | 0.0 |
| Envelope Loads | Diam | Diam | Dtu/II | (70) | Diam | (70) | Envelope Lo | nade | Diam | Dia | 11 (70) | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar | 0 | 0 | 0 | 0 | 0 | 0 | Skylite Sc | | 0 | | 0.00 | En Frict | 0.0 | 0.0 |
| Skylite Cond | 0 | o o | ō | 0: | o o | 0 | Skylite Co | | Ď. | | 0.00 | | 0.0 | 0.0 |
| Roof Cond | ő | ŏ | ŏ | 0: | ŏ | 0: | Roof Con | | ő | | 0.00 | | | |
| Glass Solar | 0 | Ō | Ō | 0 | 0 | 0 : | Glass Sol | ar | Ō | | 0.00 | A | IRFLOWS | |
| Glass/Door Con | nd 0 | ō | ō | 0 : | ō | 0 | Glass/Do | | Ō | | 0.00 | | Cooling | Heating |
| Wall Cond | 0 | Ō | 0 | 0: | Ō | 0 | Wall Cond | 1 | 0 | | 0.00 | | | |
| Partition/Door | 0 | | 0 | 0: | 0 | 0 : | Partition/0 | Door | 0 | | 0.00 | Diffuser | 158 | |
| Floor | 0 | | 0 | 0: | 0 | 0 : | Floor | | 0 | | 0.00 | Terminal | 158 | |
| Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | Floor | 0 | | 0.00 | Main Fan | 158 | 158 |
| Infiltration | 0 | | 0 | 0 | 0 | 0 | Infiltration | ı | 0 | | 0.00 | Sec Fan | 0 | 0 |
| Sub Total ==> | 0 | 0 | 0 | 0: | 0 | 0 | Sub Total | ==> | 0 | | 0.00 | Nom Vent | 8 | 8 |
| | | | | : | | | | | | | | AHU Vent | 8 | 8 |
| Internal Loads | | | | | | | Internal Loa | ds | | | | Infil | 0 | 0 |
| Lights | 899 | 0 | 899 | 27 | 899 | 37 | Lights | | 0 | | 0.00 | Min Stop/Rh | 0 | |
| People | 450 | ő | 450 | 14 | 250 | 10 | | | ő | | 0.00 | Return | 158 | |
| Misc | 1.195 | ő | 1.195 | 36 | 1.195 | 50 | Misc | | 0 | | 0.00 | Exhaust | 8 | |
| Sub Total ==> | 2.544 | 0 | 2,544 | 77 | 2,344 | 97 | Sub Total | | 0 | | 0 0.00 | Rm Exh | 0 | |
| Sub Iolai ==> | 2,544 | 0 | 2,544 | "" | 2,344 | 97 | Sub rotar | ==> | U | | 0.00 | Auxiliary | 0 | |
| Ceiling Load | 45 | -45 | 0 | 0 | 62 | 2 | Ceiling Load | 1 | -41 | | 0.00 | Leakage Dwn | 0 | - |
| Ventilation Load | 0 | 0 | 757 | 23 | 0 | | Ventilation I | | 0 | -25 | | Leakage Ups | 0 | |
| Adi Air Trans He | | U | , , , | 0 | 0 | | Adi Air Tran | | 0 | | 0 0 | Leakage Ops | U | |
| Dehumid. Ov Siz | | | 0 | 0: | U | 0 | Ov/Undr Siz | | 0 | | 0 0.00 | | | |
| Ov/Undr Sizing | 0 | | 0 | 0 | 0 | | Exhaust He | | U | | 7 -1.54 | FNION | IEEEINIO O | |
| Exhaust Heat | U | -7 | -7 | 0 | U | U | OA Preheat | | | | 0 0.00 | ENGIR | NEERING C | KS |
| Sup. Fan Heat | | -/ | 0 | 0: | | | RA Preheat | | | | 0.00 | | Cooling | Heating |
| Ret. Fan Heat | | 0 | ŏ | 0: | | | Additional F | | | | 0.00 | % OA | 4.8 | 4.8 |
| Duct Heat Pkup | | ŏ | ő | 0: | | | System Plei | | | -18 | | cfm/ft² | 1.20 | 1.20 |
| Underfir Sup Ht I | Pkup | | ŏ | 0 | | | Underfir Su | | | | 0.00 | cfm/ton | 574.98 | |
| Supply Air Leaka | | 0 | 0 | 0: | | | Supply Air I | | | | 0.00 | ft²/ton | 479.84 | |
| ouppi) in count | ·go | | | | | | ouppiy | Louinago | | | 0.00 | Btu/hr-ft² | 25.01 | -3.30 |
| Grand Total ==> | 2,588 | -52 | 3,294 | 100.00 | 2,405 | 100.00 | Grand Total | ==> | -41 | -43 | 5 100.00 | No. People | 1 | |
| | | | COIL SELE | стои | | | | | AREAS | | н | EATING COIL | SELECTIO | N |
| | Total Capacity | | Coil Airflow | | DB/WB/HR | | DB/WB/HR | | Gross Total | Glass | | | Coil Airflow | Ent Lv |
| | ton MBh | MBh | cfm | °F | °F gr/lb | °F | °F gr/lb | | | ft² (%) | | MBh | cfm | °F ° |
| Main Clg | 0.3 3.3 | 2.4 | 158 | 76.6 63 | 3.5 86.8 | 58.3 56 | 5.3 79.7 | Floor | 132 | | Main Htg | -0.4 | 158 | 67.3 70. |
| Aux Clg | 0.0 0.0 | 0.0 | 0 | | 0.0 | | 0.0 0.0 | Part | 0 | | Aux Htg | 0.0 | 0 | 0.0 0. |
| Opt Vent | | 0.0 | 0 | | | | | | _ | | Preheat | | 0 | 0.0 0. |
| Opt vent | 0.0 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | Int Door | . 0 | | Preneat | 0.0 | 0 | U.U U. |
| Total | 0.3 3.3 | | | | | | | ExFIr Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 0. |
| rotar | 0.5 5.5 | | | | | | | Wall | 0 | 0 0 | Opt Vent | 0.0 | 0 | 0.0 0. |
| | | | | | | | | | - | - | | -0.4 | U | U.U. |
| | | | | | | | | Ext Doo | | 0 0 | Total | -0.4 | | |

Room Checksums By Trane

PB Area 26 Oficina de Corr Comun

| | COOLING C | OIL PEAK | | | CLG SPACE | PEAK | | HEATING CO | IL PEAK | | TEMP | ERATURE: | S |
|---------------------|---------------------------|---------------------|-----------------------------|----------|-----------------|----------|----------------------|----------------------|--------------------|---------|------------------------|-------------------------|-------------------------|
| | d at Time: utside Air: | Mo/Hi OADB/WB/HF | r: 5 / 15 R: 87 / 86 / 2 | 37 | Mo/Hr: OADB: | | | Mo/Hr: He OADB: 3 | eating Design 2 | | SADB Ra Plenum | Cooling 58.7 76.1 | Heating 70.6 69.0 |
| | Space | Plenum | Net | Percent | Space | Percent | | Space Peak | Coil Peak | Percent | Return | 76.1 | 69. |
| | Sens. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | Space Sens | Tot Sens | | Ret/OA | 76.5 | 67. |
| | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | 0 |
| Envelope Loads | | | | (/ | | (, | Envelope Loads | | | () | Fn BldTD | 0.0 | 0 |
| Skylite Solar | 0 | 0 | 0 | 0: | 0 | 0 | Skylite Solar | 0 | 0 | 0.00 | En Frict | 0.0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0: | 0 | 0 | Skylite Cond | 0 | 0 | 0.00 | | | |
| Roof Cond | 0 | 0 | 0 | 0: | 0 | 0 | Roof Cond | 0 | 0 | 0.00 | | | |
| Glass Solar | 0 | 0 | 0 | 0 | 0 | 0 | Glass Solar | 0 | 0 | 0.00 | AIF | RFLOWS | |
| Glass/Door Cond | 0 | 0 | 0 | 0 : | 0 | 0 | Glass/Door Cond | 0 | 0 | 0.00 | | Cooling | Heat |
| Wall Cond | 0 | 0 | 0 | 0: | 0 | 0 : | Wall Cond | 0 | 0 | 0.00 | Diffuser | 630 | (|
| Partition/Door | 58 | | 58 | 0 : | 73 | 1 | Partition/Door | -266 | -266 | 15.96 | | | |
| Floor | 0 | | 0 | 0 | 0 | 0 | Floor | 0 | 0 | 0.00 | Terminal | 630 | 6 |
| Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent Floor | 0 | 0 | 0.00 | Main Fan | 630 | , |
| Infiltration | 0 | | 0 | 0 | 0 | 0 | Infiltration | 0 | 0 | 0.00 | Sec Fan | 0 | |
| Sub Total ==> | 58 | 0 | 58 | 0: | 73 | 1 | Sub Total ==> | -266 | -266 | 15.96 | Nom Vent | 23 | |
| | | | | | | | 1-411 | | | | AHU Vent | 23 | |
| Internal Loads | | | | : | | | Internal Loads | | | | Infil | 0 | |
| Lights | 1,744 | 0 | 1,744 | 14 | 1,744 | 19 | Lights | 0 | 0 | 0.00 | Min Stop/Rh | 0 | |
| People | 1,350 | 0 | 1,350 | 11 | 750 | 8 | People | 0 | 0 | 0.00 | Return | 630 | 6 |
| Misc | 6,655 | 0 | 6,655 | 55 | 6,655 | 71 | Misc | 0 | 0 | 0.00 | Exhaust | 23 | |
| Sub Total ==> | 9.749 | 0 | 9,749 | 81 | 9,149 | 98 | Sub Total ==> | 0 | 0 | 0.00 | Rm Exh | 0 | |
| | | | | : | -, | | | | | | Auxiliary | 0 | |
| Ceiling Load | 87 | -87 | 0 | 0 | 115 | 1 | Ceiling Load | -80 | 0 | 0.00 | Leakage Dwn | 0 | |
| Ventilation Load | 0 | 0 | 2,272 | 19: | 0 | 0 | Ventilation Load | 0 | -778 | 46.61 | Leakage Ups | 0 | |
| Adj Air Trans Heat | 0 | | 0 | 0 | 0 | 0 | Adj Air Trans Heat | 0 | 0 | 0 | | | |
| Dehumid. Ov Sizing | | | 0 | 0: | | | Ov/Undr Sizing | 0 | 0 | 0.00 | | | |
| Ov/Undr Sizing | 0 | | 0 | 0 | 0 | 0 | Exhaust Heat | | 20 | -1.21 | ENGIN | EERING CH | KS |
| Exhaust Heat | | -22 | -22 | 0 : | | | OA Preheat Diff. | | 0 | 0.00 | | | |
| Sup. Fan Heat | | | 0 | 0 : | | | RA Preheat Diff. | | 0 | 0.00 | | Cooling | Heatin |
| Ret. Fan Heat | | 0 | 0 | 0: | | | Additional Reheat | | .0 | 0.00 | % OA | 3.6 | 3. |
| Duct Heat Pkup | | 0 | 0 | 0 | | | System Plenum Heat | | -645 | 38.64 | cfm/ft² | 2.47 | 2.4 |
| Underfir Sup Ht Pku | р | | 0 | 0 | | | Underfir Sup Ht Pkup | | 0 | 0.00 | cfm/ton | 627.21 | |
| Supply Air Leakage | | 0 | 0 | 0 | | | Supply Air Leakage | | 0 | 0.00 | ft²/ton | 254.23 | |
| | | | | | | | | | | | Btu/hr-ft ² | 47.20 | -6.5 |
| Grand Total ==> | 9,894 | -109 | 12,057 | 100.00 | 9,337 | 100.00 | Grand Total ==> | -346 | -1,669 | 100.00 | No. People | 3 | |
| | | | | | | | | | | | L | | |

| | | | COOLIN | G COIL SELE | OTION | 1 | | | | | | AREAS | | | HEA | TING COIL | . SELECTION | NC | |
|---------------------------------|-------------------|--------------------|-------------------|---------------------|--------------------|---|--------------------|--------------------|--------------------|--------------------|-----------------------------------|----------------|--------------|--------|--------------------------------|--------------------|---------------------|------------|--------------------|
| | Total C ton | apacity MBh | Sens Cap. MBh | Coil Airflow cfm | °F | | /WB/HR gr/lb | Lea °F | ve DB °F | /WB/HR gr/lb | G | iross Total | Glass ft² | (%) | | Capacity MBh | Coil Airflow cfm | Ent °F | |
| Main Clg Aux Clg Opt Vent | 1.0 0.0 0.0 | 12.1 0.0 0.0 | 9.4 0.0 0.0 | 630 0 0 | 76.5 0.0 0.0 | | 84.9 0.0 0.0 | 58.7 0.0 0.0 | 56.5 0.0 0.0 | 79.8 0.0 0.0 | Floor Part Int Door | 255 18 0 | | | Main Htg Aux Htg Preheat | -1.7 0.0 0.0 | 630 0 0 | 0.0 | 70.6 0.0 0.0 |
| Total | 1.0 | 12.1 | | | | | | | | | ExFIr Roof Wall Ext Door | 0 0 0 | 0 0 0 | 0 0 | Humidif Opt Vent Total | 0.0 0.0 -1.7 | 0 | 0.0 0.0 | 0.0 0.0 |

PB Area 27 Papeleria OCC

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | TEM | PERATURE | s |
|----------------------------------|------------------------------|-------------|------------------------------------|----------|-----------------|----------|----------------------------|----------|-------------------|----------------------|---------------|-------------------|-------------------------|-------------------------|
| Pea | ked at Time: Outside Air: | | lo/Hr: 5 / 15 B/HR: 87 / 86 / 2 | 37 | Mo/Hr: OADB: | | | | Mo/Hr: I OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 57.5 76.1 | Heating 70.2 69.0 |
| | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil Peak | Percent | Return | 76.1 | 69.0 |
| | Sens. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | Tot Sens | Of Total | Ret/OA | 76.8 | 66.6 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | 0.0 |
| Envelope Loads | | | | | | | Envelope L | | | | | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar | 0 | 0 | 0 | 0 : | 0 | 0 | Skylite S | | 0 | 0 | | Fn Frict | 0.0 | 0.0 |
| Skylite Cond | 0 | 0 | | 0 | 0 | 0 | Skylite C | | 0 | 0 | | | | |
| Roof Cond | 0 | | | 0 | 0 | 0 | Roof Con | | 0 | 0 | | | | |
| Glass Solar | | 0 | | 0: | 0 | 0 | Glass So | | 0 | 0 | | A | IRFLOWS | |
| Glass/Door Cond | 1 0 | 0 | | 0: | 0 | 0 | Glass/Do | | 0 | 0 | | | Cooling | Heating |
| Wall Cond | 0 | 0 | 0 | 0: | 0 | 0: | Wall Con | | 0 | 0 | | Diffuser | 117 | 11 |
| Partition/Door Floor | | | 0 | 0: | 0 | 0 | Partition/ | DOOL | 0 | 0 | | Terminal | 117 | 11 |
| Adjacent Floor | | 0 | | 0: | 0 | 0 | Adjacent | Floor | 0 | 0 | | Main Fan | 117 | |
| Infiltration | | U | 0 | 0: | 0 | 0 | Infiltration | | 0 | 0 | | Sec Fan | | |
| Sub Total ==> | 0 | 0 | | 0: | 0 | 0 | | | 0 | 0 | | Nom Vent | 0 | |
| Sub lotal ==> | · | U | U | 0: | U | U | Sub Total | 1 | U | U | 0.00 | | 8 | |
| Internal Loads | | | | | | | Internal Loa | arte | | | | AHU Vent | 0 | |
| | | _ | | | | | | aus | | _ | | Infil | | |
| Lights | 388 | | 388 | 14 | 388 | 21 | Lights | | 0 | 0 | | Min Stop/Rh | 0 | |
| People | 450 | | 450 | 16 | 250 | 13 | | | 0 | 0 | | Return | 117 | |
| Misc | 1,195 | | 1,195 | 43 | 1,195 | 64 | Misc | | 0 | 0 | | Exhaust | 8 | |
| Sub Total ==> | 2,032 | 0 | 2,032 | 73 | 1,832 | 99 | Sub Tota | /==> | 0 | 0 | 0.00 | Rm Exh | 0 | |
| 0-111 | | | | | | | C-1111 | | 40 | | 0.00 | Auxiliary | | |
| Ceiling Load Ventilation Load | 19 | | 0 | 0 | 27 | | Ceiling Loa Ventilation | | -18 0 | -259 | | Leakage Dwn | 0 | |
| | | | 757 | 27 : | 0 | 0 | | | 0 | -259 0 | | Leakage Ups | 0 | |
| Adj Air Trans Hea | | | 0 | 0 | 0 | 0 | Adj Air Tran | | | | | | | |
| Dehumid. Ov Sizii | | | 0 | 0 : | | | Ov/Undr Siz | | 0 | 0 7 | 0.00 -1.79 | | | |
| Ov/Undr Sizing | 0 | -7 | 0 -7 | 0: | 0 | 0 | Exhaust He OA Preheat | | | , | | ENGI | NEERING C | KS |
| Exhaust Heat Sup. Fan Heat | | -/ | -7 | 0: | | | RA Preheat | | | 0 | | | Cooling | Heating |
| Ret. Fan Heat | | 0 | | 0: | | | Additional I | | | 0 | | % OA | 6.4 | 6.4 |
| Duct Heat Pkup | | 0 | | 0: | | | System Ple | | | -122 | | cfm/ft² | 2.05 | 2.05 |
| Underfir Sup Ht P | kun | 0 | ő | 0: | | | Underfir Su | | | | | cfm/ton | 502.49 | 2.00 |
| Supply Air Leakag | | 0 | | 0: | | | Supply Air | | | 0 | | ft²/ton | 245.05 | |
| Supply All Leukuş | je. | | | ٠: | | | Supply All | Leakage | | 0 | 0.00 | Btu/hr-ft² | 48.97 | -6.60 |
| Grand Total ==> | 2,052 | -27 | 2,782 | 100.00 | 1,859 | 100.00 | Grand Tota | / ==> | -18 | -375 | 100.00 | No. People | 1 | 0.00 |
| | | COOLIN | G COIL SELE | СПОИ | | | | | AREAS | | Н | EATING COIL | . SELECTIO | N |
| | Total Capacity | | | | r DB/WB/HR | | DB/WB/HR | | Gross Total | Glass | | | Coil Airflow | Ent L |
| | ton MBh | MBh | cfm | °F | °F gr/lb | °F | °F gr/lb | | | ft² (%) | | MBh | cfm | °F |
| Main Clg | 0.2 2.8 | 1.9 | 117 | 76.8 64 | 1.1 89.5 | 57.5 5 | 5.8 78.7 | Floor | 57 | | Main Htg | -0.4 | 117 | 66.6 70 |
| Aux Cla | 0.0 0.0 | | | | 0.0 | | 0.0 | Part | 0 | | Aux Htg | 0.0 | 0 | 0.0 0 |
| Opt Vent | 0.0 0.0 | | 0 | | 0.0 | | 0.0 | Int Door | - | | Preheat | 0.0 | 0 | 0.0 0 |
| Opt vent | 0.0 0.0 | 0.0 | U | 0.0 (| J.U U.U | 0.0 | ,.0 0.0 | ExFlr | 0 | | riciidat | 0.0 | U | 0.0 0 |
| Total | 0.2 2.8 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 0 |
| rour | U.E. 2.0 | | | | | | | Wall | 0 | | Opt Vent | 0.0 | 0 | 0.0 0 |
| | | | | | | | | Ext Doo | - | | Total | -0.4 | Ü | 0 |
| | | | | | | | | EXI DOO | . 0 | 0 0 | iotai | -0.4 | | |

Room Checksums By Trane

| P | | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | COIL PEAK | | TEM | PERATURE | S |
|-------------------------|-----------------------------|-----------------------|-------------------------|---------------------|-------------------------------|---------------------|----------------------|-----------------------|--------------------------|------------------------------|---------------------|--------------------------|-------------------------|-------------------------|
| | ed at Time: Outside Air: | | Hr: 5/15 IR: 87/86/2 | 37 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 54.5 76.1 | Heating 75.9 69.0 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | Percent Of Total | Return Ret/OA | 76.1 78.0 | 69.0 62.3 |
| | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | 0.0 |
| Envelope Loads | | | | | | | Envelope L | | | | | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar | 0 | 0 | 0 | 0 : | 0 | 0 | Skylite S | | 0 | 0 | | Fn Frict | 0.0 | 0.0 |
| Skylite Cond | 0 | 0 | 0 | 0 | 0 | 0 | Skylite C | | 0 | 0 | | | | |
| Roof Cond | 0 | 0 | 0 | 0 | 0 | 0 | Roof Co | | 0 | 0 | | II . | | |
| Glass Solar | 471 | 0 | 471 | 2 | 2,801 | 28 | Glass So | | 0 | 0 | | A | IRFLOWS | |
| Glass/Door Cond | 25 | 0 | 25 | 0 | -19 | 0 : | Glass/Do | | -87 | -87 | 1.31 | | Cooling | Heati |
| Wall Cond | 263 | 217 | 481 | 2: | 114 | -9 | | | -392 | -721 | 10.86 35.29 | Diffuser | 534 | - 5 |
| Partition/Door Floor | 446 0 | | 446 0 | 2: | -888 0 | -9. | Partition/ Floor | Door | -2,345 0 | -2,345 0 | | Terminal | 534 | 5 |
| Adjacent Floor | 0 | 0 | 0 | 0: | 0 | 0 | Adiacent | FI | 0 | 0 | | Main Fan | 534 | |
| Infiltration | 0 | U | 0 | 0 | 0 | 0 | Infiltratio | | 0 | 0 | | Sec Fan | 0 | |
| Sub Total ==> | 1,205 | 217 | 1,423 | 7 | 2.008 | 20 | Sub Tota | | -2.824 | -3,153 | | Nom Vent | 98 | |
| Sub lotal ==> | 1,205 | 217 | 1,423 | · : | 2,008 | 20 | Sub Tota | , | -2,024 | -3,133 | 47.40 | | | |
| | | | | ; | | | Internal Lo | ade | | | | AHU Vent | 98 | |
| nternal Loads | | | | _ ; | | | | uus | | | | Infil | 0 | |
| Lights | 1,277 | 0 | 1,277 | 6 | 1,277 | 13 | | | 0 | 0 | | Min Stop/Rh | 0 | |
| People | 5,850 | 0 | 5,850 | 27 | 3,250 | 33 | People | | 0 | 0 | | Return | 534 | |
| Misc | 3,413 | 0 | 3,413 | 16 | 3,413 | 34 : | Misc | | 0 | 0 | | Exhaust | 98 | |
| Sub Total ==> | 10,540 | 0 | 10,540 | 49 | 7,940 | 80 | Sub Tota | / ==> | 0 | 0 | 0.00 | Rm Exh | 0 | |
| | | | | | | | | | | _ | | Auxiliary | 0 | |
| Ceiling Load | 64 | -64 | 0 | 0 | -14 | | Ceiling Loa | | -58 | 0 | | Leakage Dwn | 0 | |
| Ventilation Load | 0 | 0 | 9,833 | 45 ; | 0 | | Ventilation | | 0 | -3,371 | 50.73 | Leakage Ups | 0 | |
| Adj Air Trans Heat | 0 | | 0 | 0 | 0 | 0 | Adj Air Tra | | 0 | 0 | _ | | | |
| Dehumid. Ov Sizin | | | 0 | 0 | | | Ov/Undr Si | | 0 | 0 | | | | |
| Ov/Undr Sizing | 0 | | 0 | 0 : | 0 | 0 : | Exhaust He | | | 87 | -1.32 | ENGI | NEERING CI | KS |
| Exhaust Heat | | -95 | -95 | 0 ; | | | OA Prehea | | | 0 | | | 0 | IIti- |
| Sup. Fan Heat | | | 0 | 0; | | | RA Preheat | | | 0 | | % OA | Cooling 18.3 | Heatin 18. |
| Ret. Fan Heat | | 0 | 0 | 0 : | | | Additional | | | 0 | | | | |
| Duct Heat Pkup | | 0 | 0 | 0 | | | System Ple | | | -208 | | cfm/ft² | 2.85 | 2.8 |
| Jnderfir Sup Ht Pk | | | 0 | 0 | | | Underfir Si | | | 0 | | cfm/ton | 295.14 | |
| Supply Air Leakage | е | 0 | 0 | 0 | | | Supply Air | Leakage | | 0 | 0.00 | ft²/ton | 103.41 | |
| Grand Total ==> | 11,809 | 58 | 21,700 | 100.00 | 9,933 | 100.00 | Grand Tota | / ==> | -2,882 | -6,644 | 100.00 | Btu/hr-ft² No. People | 116.04 13 | -35.5 |
| | | COOLING | COIL SELE | CTION | | | | | AREAS | | н | EATING COIL | SELECTIO | N |
| | Total Capacity ton MBh | Sens Cap. (MBh | Coil Airflow cfm | | r DB/WB/HR °F gr/lb | | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent I |
| Main Clg | 1.8 21.7 | 10.3 | 534 | 78.0 67 | 7.7 108.3 | 54.5 54 | 1.0 75.2 | Floor | 187 | | Main Htg | -6.6 | 534 | 62.3 |
| | 0.0 0.0 | 0.0 | 0 | | 0.0 | | 0.0 | Part | 159 | | Aux Htg | 0.0 | 0 | 0.0 |
| | 0.0 0.0 | 0.0 | 0 | | | | 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 |
| nt Vent | | | | 0.0 0 | 7.0 0.0 | 0.0 | 7.0 0.0 | | | | riendat | 0.0 | U | 0.0 |
| Opt Vent | 0.0 | | | | | | | EvElr | Λ . | | l . | | | |
| • | | | | | | | | ExFlr | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | 1.8 21.7 | | | | | | | ExFIr Roof Wall | 0 0 136 | | Humidif Opt Vent | 0.0 | 0 | 0.0 |

By Trane

PB Area 29 Policia Procesal

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING (| COIL PE | AK | | TEMP | PERATURE | s | |
|-------------------------|-----------------------------|-----------------------|--------------------------------|---------------------|-------------------|---------------------|---------------------|---------------|--------------------------|-----------------|---------|----------|------------------------------|-------------------------|-------------|----------------------|
| | ed at Time: Outside Air: | | /Hr: 6 / 18 HR: 78 / 78 / 1 | 81 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating E 32 | esign) | | SADB Ra Plenum | Cooling 58.6 76.4 | | ting 70.8 69.0 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | ot Sens | | Return Ret/OA Fn MtrTD | 76.4 76.5 0.0 | | 69.0 67.4 0.0 |
| Envelope Loads | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | : Envelope L | nade | Btu/h | | Btu/h | (%) | Fn Mu ID | 0.0 | | 0.0 |
| Skylite Solar | 0 | 0 | 0 | 0: | 0 | 0 | Skylite S | | 0 | | 0 | 0.00 | Fn Frict | 0.0 | | 0.0 |
| Skylite Cond | 0 | 0 | 0 | 0 | 0 | 0 | Skylite C | ond | 0 | | 0 | | | | | |
| Roof Cond | 0 | 0 | 0 | 0 | 0 | 0 | Roof Cor | | 0 | | 0 | | | | | |
| Glass Solar | 4,765 | 0 | 4,765 | 48 : | 4,765 | 62 | : Glass So | | 0 | | 0 | | Al | RFLOWS | | |
| Glass/Door Cond | 32 | .0 | 32 | 0; | 32 | 0 | | | -261 | | -261 | 16.56 | | Cooling | He | ating |
| Wall Cond | 48 | 319 | 366 | 4: | 48 | 1 | | | -57 | | -449 | | Diffuser | 515 | | 515 |
| Partition/Door Floor | 0 | | 0 | 0: | 0 | 0 | Partition/ | Door | 0 | | 0 | | Terminal | 515 | | 515 |
| Adjacent Floor | 0 | 0 | 0 | 0: | 0 | 0 | - Adiacent | Eleor | 0 | | 0 | | Main Fan | 515 | | 515 |
| Infiltration | 0 | U | 0 | 0: | 0 | 0 | | | 0 | | 0 | | Sec Fan | 0 | | 0 |
| Sub Total ==> | 4.845 | 319 | 5.164 | 52 | 4.845 | 63 | | | -318 | | -710 | | Nom Vent | 23 | | 23 |
| Sub Iolai | 4,043 | 318 | 3,104 | 32 | 4,045 | 03 | . 000 7010 | , | 510 | | , 10 | 40.01 | AHU Vent | 23 | | 23 |
| Internal Loads | | | | | | | Internal Lo | ads | | | | | Infil | 0 | | 0 |
| Lights | 831 | 0 | 831 | 8 | 831 | 11 | Lights | | 0 | | 0 | 0.00 | Min Stop/Rh | 0 | | 0 |
| People | 1.350 | 0 | 1,350 | 14 | 750 | 10 | | | 0 | | 0 | | Return | 515 | | 515 |
| Misc | 1,195 | 0 | 1,195 | 12 | 1.195 | 16 | Misc | | 0 | | 0 | | Exhaust | 23 | | 23 |
| | 3,376 | 0 | 3,376 | | 2,776 | 36 | Sub Tota | | 0 | | 0 | 0.00 | Rm Exh | 0 | | 0 |
| Sub Total ==> | 3,376 | 0 | 3,376 | 34 | 2,776 | 36 | Sub lota | / ==> | U | | 0 | 0.00 | Auxiliary | 0 | | 0 |
| Ceiling Load | 55 | -55 | 0 | 0: | 55 | 1 | Ceiling Loa | d | -38 | | 0 | 0.00 | Leakage Dwn | ő | | 0 |
| Ventilation Load | 0 | -55 | 1.372 | 14 | 0 | ò | | | 0 | | -778 | | Leakage Ups | 0 | | 0 |
| Adi Air Trans Heat | 0 | · · | 1,572 | 0: | 0 | | Adi Air Trai | | 0 | | 0 | | Leanage ops | | | |
| Dehumid, Ov Sizing | | | 0 | 0: | | | Ov/Undr Si | | 0 | | 0 | | | | | |
| Ov/Undr Sizing | , 0 | | o o | 0: | 0 | 0 | Exhaust He | | Ü | | 20 | | ENGIN | IEERING CI | ĸ¢ | |
| Exhaust Heat | | -29 | -29 | ŏ: | | | OA Preheat | Diff. | | | 0 | | LIVOIIV | | | |
| Sup. Fan Heat | | | 0 | 0: | | | RA Preheat | Diff. | | | 0 | 0.00 | | Cooling | Hea | |
| Ret. Fan Heat | | 0 | 0 | 0: | | | Additional | | | | . 0 | | % OA | 4.4 | | 4.4 |
| Duct Heat Pkup | | 0 | 0 | 0: | | | System Ple | | | | -108 | 6.83 | cfm/ft² | 4.23 | | 4.23 |
| Underfir Sup Ht Pk | | | 0 | 0 : | | | Underfir Su | | | | 0 | | cfm/ton | 624.90 | | |
| Supply Air Leakage | | 0 | 0 | 0 ; | | | Supply Air | Leakage | | | 0 | 0.00 | ft²/ton | 147.90 | | |
| Grand Total ==> | 8,276 | 235 | 9,883 | 100.00 | 7,676 | 100.00 | Grand Tota | / ==> | -356 | | -1,575 | 100.00 | Btu/hr·ft² No. People | 81.14 3 | -12 | 2.93 |
| | | COOLING | COIL SELE | CTION | | | | | AREAS | | | н | EATING COIL | SELECTIO | N | |
| | Total Capacity | | Coil Airflow | | DB/WB/HR | Leave | DB/WB/HR | | Gross Total | Glass | - 11 | | | Coil Airflow | Ent | Lvg |
| | on MBh | MBh | cfm | | | | °F gr/lb | | Gross rotal | | (%) | | MBh | cfm | °F | - |
| | | | 545 | 70 5 00 | - | 500.5 | - | F1 | 400 | | 11 | | 4.0 | 545 | | 70. |
| | 0.8 9.9 0.0 0.0 | 8.0 0.0 | 515 0 | | | 58.6 5 0.0 | 6.2 78.8 0.0 0.0 | Floor | 122 0 | | | Main Htg | -1.6 0.0 | 515 | 67.4 0.0 | 70. |
| | | | - | | | | | Part | _ | | | Aux Htg | | _ | | |
| Opt Vent | 0.0 | 0.0 | 0 | 0.0 0. | 0.0 | 0.0 | 0.0 0.0 | Int Doo | | | - 11 | Preheat | 0.0 | 0 | 0.0 | 0. |
| Total | 0.8 9.9 | | | | | | | ExFIr Roof | 0 | 0 | 0 | Humidif | 0.0 | 0 | 0.0 | |
| rotar | J.8 9.9 | | | | | | | Wall | 162 | 97 | | Opt Vent | 0.0 | 0 | 0.0 | 0.0 |
| | | | | | | | | | | | | | | U | 0.0 | 0.0 |
| | | | | | | | | Ext Doo | or 0 | 0 | 0 | Total | -1.6 | | | |

Room Checksums

By Trane

| PB | Area | 30 | PGR |
|----|------|----|------------|

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PEAK | | TEM | PERATURE | S |
|-----------------------------------|------------------------------|-----------------------|---------------------------------|---------------------|---------------------|---------------------|----------------------------|-------------------|--------------------------|------------------------------|-------------------------|-------------------------------|----------------------|--------------|
| | ked at Time: Outside Air: | | /Hr: 6 / 18 /HR: 78 / 78 / 1 | 81 | Mo/Hr: OADB: | | : | | Mo/Hr: OADB: | Heating Design 32 | | SADB | Cooling 57.9 | Heatii 70 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | Coil Pea | k Percent s Of Total | Ra Plenum Return Ret/OA | 76.4 76.4 76.5 | 69 69 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/ | | Fn MtrTD | 0.0 | 0 |
| nvelope Loads | | | | | | | Envelope L | | | | | Fn BldTD | 0.0 | C |
| Skylite Solar | 0 | 0 | 0 | 0: | 0 | 0 | Skylite S | | 0 | | 0.00 | Fn Frict | 0.0 | (|
| Skylite Cond | 0 | 0 | 0 | 0 | 0 | 0 | Skylite C | | 0 | | 0.00 | | | |
| Roof Cond | 0 | 0 | | 0 | | 0 | Roof Con Glass So | | 0 | | | | IRFLOWS | |
| Glass Solar Glass/Door Cond | 3,177 22 | 0 | 3,177 22 | 39 | 3,177 22 | 53 0 | | | -174 | -17 | | ^ | | |
| Wall Cond | 32 | 212 | 244 | 3: | 32 | 1 | | | -38 | -29 | | | Cooling | |
| Partition/Door | 0 | 212 | 244 | 0: | 0 | ó | | | -50 | | 0.00 | Diffuser | 385 | |
| Floor | 0 | | ő | 0: | ő | ő | | 5001 | 0 | | 0.00 | Terminal | 385 | |
| Adjacent Floor | ō | 0 | ō | 0: | ō | ō | Adjacent | Floor | 0 | | | Main Fan | 385 | |
| Infiltration | ō | - | ō | ō: | ō | ō | | | ō | | 0.00 | Sec Fan | 0 | |
| Sub Total ==> | 3,230 | 212 | 3.443 | 42 | 3.230 | 54 | Sub Total | ==> | -212 | -47 | 35.05 | Nom Vent | 23 | |
| | | | | | | | | | | | | AHU Vent | 23 | |
| ternal Loads | | | | - 1 | | | Internal Loa | ıds | | | | Infil | 0 | |
| Lights | 774 | 0 | 774 | 10 | 774 | 13 | Lights | | 0 | | 0.00 | Min Stop/Rh | 0 | |
| People | 1.350 | ő | 1.350 | 17 | 750 | 13 | | | 0 | | 0.00 | Return | 385 | |
| Misc | 1.195 | ō | 1.195 | 15 | 1.195 | 20 | Misc | | 0 | | 0.00 | Exhaust | 23 | |
| Sub Total ==> | 3,319 | 0 | 3,319 | 41 | 2,719 | 45 | Sub Tota | ==> | 0 | | 0.00 | Rm Exh | 0 | |
| -11: | | | | | | | C-1111 | | 25 | | 0.00 | Auxiliary | 0 | |
| eiling Load entilation Load | 51 | -51 | 0 | 0 | 51 | 1 | Ceiling Loa Ventilation | | -35 0 | -77 | | Leakage Dwn | 0 | |
| di Air Trans Heat | 0 | 0 | 1,371 | 17 : | 0 | | Adj Air Tran | | 0 | | 0 0 | Leakage Ups | U | |
| | | | 0 | 0 : | 0 | U | | | 0 | | 0.00 | | | |
| ehumid. Ov Sizin v/Undr Sizina | | | 0 | 0 | 0 | 0 | Ov/Undr Siz Exhaust He | | U | 2 | | FNON | IEEEUNO O | |
| xhaust Heat | 0 | -29 | -29 | 0: | 0 | U | : OA Preheat | | | | 0.00 | ENGIN | NEERING C | KS |
| up. Fan Heat | | -20 | 0 | 0: | | | : RA Preheat | | | | 0.00 | | Cooling | Heati |
| et. Fan Heat | | 0 | ő | 0: | | | : Additional I | | | | 0.00 | % OA | 5.8 | |
| uct Heat Pkup | | ō | ō | 0: | | | System Ple | | | -11 | 8.85 | cfm/ft² | 3.40 | 3. |
| nderfir Sup Ht Pi | kup | | 0 | 0: | | | Underfir Su | p Ht Pkup | | | 0.00 | cfm/ton | 570.29 | |
| upply Air Leakag | e | 0 | 0 | 0 | | | Supply Air | Leakage | | | 0.00 | ft²/ton | 167.94 | |
| irand Total ==> | 6,600 | 133 | 8,104 | 100.00 | 6,000 | 100.00 | Grand Tota | ==> | -248 | -1,35 | 1 100.00 | Btu/hr-ft² No. People | 71.45 3 | -11. |
| | | COOLING | COIL SELE | CTION | | | | | AREAS | , 1 | н | EATING COIL | SELECTIO | N |
| | Total Capacity ton MBh | Sens Cap. MBh | Coil Airflow cfm | | DB/WB/HR F gr/lb | Leave °F | *F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F |
| | 0.7 8.1 | 6.2 | 385 | | | 57.9 5 | | Floor | 113 | | Main Htg | -1.4 | | 66.9 |
| | 0.0 0.0 | 0.0 | 0 | | 0.0 | | 0.0 0.0 | Part | 0 | | Aux Htg | 0.0 | 0 | 0.0 |
| pt Vent | 0.0 0.0 | 0.0 | 0 | 0.0 0 | 0.0 | 0.0 | 0.0 0.0 | Int Door ExFIr | 0 | | Preheat | 0.0 | 0 | 0.0 |
| otal | 0.7 8.1 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| rai | 0.1 | | | | | | | Wall | 108 | 65 60 | Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | | 100 | 00 | -br som | 0.0 | | |

By Trane

PB Area 31 Oficina

| | COOLI | NG C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | TEM | PERATURE | S |
|--------------------|---------------------------|--------------|-----------------------|--------------------------------|---------------------|------------------------|---------------------|----------------------|-----------|--------------------------|------------------------------|-------------------------|------------------------|-------------------------|----------------------|
| | ed at Time Outside Air | | | /Hr: 5 / 15 HR: 87 / 86 / 2 | 37 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 58.2 76.1 | Heatin 70. 69. |
| | Sens. + | pace Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | k Percent s Of Total | Return Ret/OA | 76.1 76.6 | 69. 67. |
| | E | 3tu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu | h (%) | Fn MtrTD | 0.0 | 0. |
| Envelope Loads | | | | | | | | Envelope Lo | | | | | Fn BldTD | 0.0 | 0. |
| Skylite Solar | | 0 | 0 | 0 | 0 : | 0 | 0 | | | 0 | | 0.00 | Fn Frict | 0.0 | 0. |
| Skylite Cond | | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | 0.00 | | | |
| Roof Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Roof Con | | 0 | | 0.00 | II . | | |
| Glass Solar | | 0 | 0 | 0 | 0 : | 0 | 0 | | | 0 | | 0.00 | A | IRFLOWS | |
| Glass/Door Cond | | 0 | 0 | 0 | 0 : | 0 | 0 | Glass/Do | | 0 | | 0.00 | | Cooling | Heati |
| Wall Cond | | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | 0.00 | Diffuser | 155 | |
| Partition/Door | | 0 | | 0 | 0 : | 0 | 0 | | Door | 0 | | 0.00 | | | |
| Floor | | 0 | | 0 | 0 | 0 | 0 | Floor | | 0 | | 0.00 | Terminal | 155 | 1 |
| Adjacent Floor | | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | | 0 | | 0.00 | Main Fan | 155 | |
| Infiltration | | 0 | | 0 | 0 : | 0 | 0 | Infiltration | | 0 | | 0.00 | Sec Fan | C | |
| Sub Total ==> | | 0 | 0 | 0 | 0: | 0 | 0 | Sub Total | ==> | 0 | | 0.00 | Nom Vent | 8 | |
| | | | | | | | | | | | | | AHU Vent | 8 | |
| nternal Loads | | | | | | | | Internal Loa | ds | | | | Infil | ī | |
| Lights | | 868 | 0 | 868 | 27 | 868 | 37 | Lights | | 0 | | 0 0.00 | Min Stop/Rh | Č | |
| People | | 450 | 0 | 450 | 14 | 250 | 11 | People | | 0 | | 0.00 | Return | 155 | |
| Misc | | .195 | 0 | 1,195 | 37 | 1,195 | 50 | Misc | | 0 | | 0.00 | Exhaust | 100 | |
| | | | - | , | | , | | | | | | | | Č | |
| Sub Total ==> | 2 | ,513 | 0 | 2,513 | 77 | 2,313 | 97 | Sub Total | ==> | 0 | | 0.00 | Rm Exh | | |
| | | | | | | | | | | | | | Auxiliary | | |
| Ceiling Load | | 43 | -43 | 0 | 0 | 59 | | Ceiling Load | | -40 | | 0.00 | Leakage Dwn | C | |
| Ventilation Load | | 0 | 0 | 757 | 23; | 0 | 0 | Ventilation I | | 0 | -25 | | Leakage Ups | C | |
| Adj Air Trans Heat | | 0 | | 0 | 0 : | 0 | 0 | Adj Air Tran | | 0 | | 0 0 | | | |
| Dehumid. Ov Sizin | g | | | 0 | 0 | | | Ov/Undr Siz | | 0 | | 0.00 | | | |
| Ov/Undr Sizing | | 0 | | 0 | 0: | 0 | 0 | Exhaust He | at | | | 7 -1.56 | ENGI | NEERING C | KS |
| Exhaust Heat | | | -7 | -7 | 0 | | | OA Preheat | Diff. | | | 0.00 | | | |
| Sup. Fan Heat | | | | 0 | 0: | | | RA Preheat | | | | 0.00 | | Cooling | Heatin |
| Ret. Fan Heat | | | 0 | 0 | 0: | | | Additional F | | | | 0.00 | % OA | 4.8 | 4. |
| Duct Heat Pkup | | | 0 | 0 | 0: | | | System Plei | | | -17 | | cfm/ft² | 1.22 | 1.2 |
| Underfir Sup Ht Pi | tup | | | 0 | 0 | | | Underfir Su | p Ht Pkup | | | 0.00 | cfm/ton | 571.15 | |
| Supply Air Leakag | e | | 0 | 0 | 0 | | | Supply Air I | eakage | | | 0.00 | ft²/ton | 467.76 | |
| | | | | | | | | | | | | | Btu/hr-ft ² | 25.65 | -3.3 |
| Grand Total ==> | 2 | ,556 | -51 | 3,263 | 100.00 | 2,372 | 100.00 | Grand Total | ==> | -40 | -43 | 2 100.00 | No. People | 1 | |
| | | | COOLING | COIL SELE | СПОИ | | | | | AREAS | | Н | EATING COIL | SELECTIO | N |
| | Total Capa ton | acity MBh | Sens Cap. MBh | Coil Airflow cfm | | r DB/WB/HR °F gr/lb | Leave °F | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F |
| Main Cla | 0.3 | 3.3 | 2.4 | 155 | 76.6 63 | 3.6 86.9 | 58.2 5 | 6.2 79.6 | Floor | 127 | - | Main Htg | -0.4 | 155 | 67.2 |
| | 0.0 | 0.0 | 0.0 | 100 | | 0.0 | | 0.0 0.0 | Part | 0 | | Aux Htg | 0.0 | 0 | 0.0 |
| | | 0.0 | 0.0 | 0 | | | | | | - | | | | 0 | |
| Opt Vent | 0.0 | 0.0 | 0.0 | U | 0.0 | 0.0 | 0.0 | 0.0 | Int Door | . 0 | | Preheat | 0.0 | U | 0.0 |
| Forest | 0.2 | 2.2 | | | | | | | ExFlr | 0 | 0 0 | Liversistif | 0.0 | 0 | 0.0 |
| otal | 0.3 | 3.3 | | | | | | | Roof | 0 | 0 0 | Humidif Opt Vent | | 0 | 0.0 |
| | | | | | | | | | Wall | | | Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | | Ext Doo | r 0 | 0 0 | Total | -0.4 | | |

Room Checksums By Trane

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING (| OIL PEAK | | TEMP | PERATURE | S |
|-----------------------------------|-----------------------------|-----------|------------------------------------|---------------------|-------------------|---------------------|----------------------------|---------------|--------------------------|----------------------|---------------------|----------------------------|-------------------------|-------------|
| | ed at Time: Outside Air: | | 1o/Hr: 5 / 15 B/HR: 87 / 86 / 2 | 37 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 57.7 76.1 | Heati 70 |
| | Spac Sens. + La | | | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | Percent Of Total | Return Ret/OA | 76.1 76.1 76.7 | 69 |
| | Btu/ | n Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | (|
| nvelope Loads | | | | | | | Envelope L | | | | | Fn BldTD | 0.0 | (|
| Skylite Solar | | 0 | | 0 : | 0 | 0 | Skylite S | | 0 | 0 | | Fn Frict | 0.0 | |
| Skylite Cond | | 0 | 0 | 0 | 0 | 0 | Skylite C | | 0 | 0 | | | | |
| Roof Cond | | 0 | 0 | | 0 | 0 | Roof Cor | | 0 | 0 | | | RFLOWS | |
| Glass Solar Glass/Door Cond | | , , | 0 | 0: | 0 | 0 | Glass So Glass/Do | | 0 | 0 | | ^ | | |
| Wall Cond | |) 0 | 0 | 0: | 0 | 0 | | | 0 | 0 | | | Cooling | Hea |
| Partition/Door | |) | 0 | 0: | 0 | 0 | Partition/ | | 0 | 0 | | Diffuser | 125 | |
| Floor | | ń | o o | 0: | ő | ő | Floor | Dooi | 0 | Č | | Terminal | 125 | |
| Adiacent Floor | | . 0 | ő | 0: | o o | 0 | Adiacent | Floor | 0 | Ö | | Main Fan | 125 | |
| Infiltration | | , | ō | 0: | ō | ō | Infiltration | | Ō | ō | | Sec Fan | 0 | |
| Sub Total ==> | | 0 | 0 | 0: | 0 | 0 | Sub Tota | ==> | 0 | 0 | 0.00 | Nom Vent | 8 | |
| | | | | | | | | | | | | AHU Vent | 8 | |
| ternal Loads | | | | | | | Internal Loa | ids | | | | Infil | ō | |
| Lights | 49 | 3 0 | 498 | 17 | 498 | 25 | Lights | | 0 | 0 | 0.00 | Min Stop/Rh | 0 | |
| People | 45 | | | 16 | 250 | 13 | People | | 0 | Ö | | Return | 125 | |
| Misc | 1.19 | | | 41 | 1.195 | 60 | | | 0 | Ö | | Exhaust | 8 | |
| Sub Total ==> | 2,14 | 3 0 | 2,143 | 74 | 1,943 | 98 | Sub Tota | ==> | 0 | C | 0.00 | Rm Exh | 0 | |
| oiling Load | | - 25 | | . : | 2.4 | | Calling Los | d | -23 | O | 0.00 | Auxiliary | 0 | |
| eiling Load entilation Load | 2 | 5 -25 | 0 757 | 0 26 | 34 0 | 2 | Ceiling Loa Ventilation | | -23 | -259 | | Leakage Dwn Leakage Ups | 0 | |
| dj Air Trans Heat | | ט . ר | /5/ | 0: | 0 | | Adj Air Trar | | 0 | -255 | | Leakage Ups | 0 | |
| ehumid. Ov Sizin | | , | 0 | 0: | U | U | Ov/Undr Siz | | 0 | 0 | | | | |
| enumia. Ov sizin v/Undr Sizina | |) | 0 | 0: | 0 | 0 | Exhaust He | | U | 7 | | FNON | | |
| xhaust Heat | | -7 | | 0 | 0 | U | OA Preheat | | | ď | | ENGIN | IEERING C | KS |
| up. Fan Heat | | | 0 | 0: | | | RA Preheat | | | č | | | Cooling | Heat |
| et. Fan Heat | | 0 | ŏ | 0: | | | Additional | | | č | | % OA | 6.0 | |
| uct Heat Pkup | | Ō | Ō | 0: | | | System Ple | num Heat | | -135 | 34.84 | cfm/ft² | 1.72 | 1. |
| nderfir Sup Ht Pk | tup | | 0 | 0: | | | Underfir Su | p Ht Pkup | | 0 | 0.00 | cfm/ton | 519.43 | |
| upply Air Leakag | е | 0 | 0 | 0 | | | Supply Air | Leakage | | 0 | 0.00 | ft²/ton | 302.66 | |
| arand Total ==> | 2,16 | 7 -32 | 2,892 | 100.00 | 1,977 | 100.00 | Grand Tota | / ==> | -23 | -388 | 100.00 | Btu/hr-ft² No. People | 39.65 1 | -5. |
| | | COOLIN | G COIL SELE | CTION | | | 1 | | AREAS | | | EATING COIL | SELECTIO | AI. |
| | Total Capacit | Sens Cap. | Coil Airflow | Enter | DB/WB/HR | | DB/WB/HR | | Gross Total | Glass | " | Capacity | Coil Airflow | Ent |
| | ton MB | n MBh | cfm | °F | °F gr/lb | °F | °F gr/lb | 1 | | ft² (%) | | MBh | cfm | °F |
| | 0.2 2. | | 125 | | | 57.7 5 | | Floor | 73 | | Main Htg | -0.4 | 125 | |
| ux Clg | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | Part | 0 | | Aux Htg | 0.0 | 0 | 0.0 |
| | 0.0 0. | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | Int Door | | | Preheat | 0.0 | 0 | 0.0 |
| ital | 0.2 2. | | | | | | | ExFIr Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | | | | | | | | | | | | | | |
| Otai | 0.2 | • | | | | | | Wall | ŏ | | Opt Vent | 0.0 | ő | 0.0 |

PB Area 33 Vestibulo de Acceso Publico

| | COOLING | 3 COI | L PEAK | | | CLG SPACE | PEAK | | | HEATING (| OIL PEAK | | TEM | PERATURE | s |
|-------------------------------|-------------------------------|-------|--------------------|-------------------------|----------|------------------------|----------|--------------------------|--------------|-----------------|------------------------------|----------------------|-------------------|-------------------------|-------------------------|
| Pea | aked at Time: Outside Air: | | | Hr: 5/15 IR: 87/86/2 | 37 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 56.0 76.1 | Heating 74.5 69.0 |
| | Spa | ce | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil Peak | Percent | Return | 76.1 | 69.0 |
| | Sens. + La | | ens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | Tot Sens | Of Total | Ret/OA | 77.1 | 65.5 |
| | Btu | /h | Btu/h | Btu/h | (%) | Btu/h | (%) | | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | 0.0 |
| Envelope Loads | | | | | | | | Envelope L | | | | | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite So | | 0 | 0 | 0.00 | Fn Frict | 0.0 | 0.0 |
| Skylite Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite C | | 0 | 0 | 0.00 | | | |
| Roof Cond Glass Solar | | 0 | 0 | 0 | 0 | 0 | 0 | Roof Con Glass So | | 0 | 0 | 0.00 | | IRFLOWS | |
| Glass/Door Con | d | 0 | 0 | 0 | 0 | 0 | 0 | Glass/Do | | 0 | 0 | 0.00 | ^ | | |
| Wall Cond | | 20 | 63 | 183 | 1: | 119 | 1 | | | -173 | -265 | 2.94 | | Cooling | Heating |
| Partition/Door | | 13 | 05 | 843 | 3 | 1,056 | 6 | Partition/ | | -3.870 | -3.870 | 42.90 | Diffuser | 1,093 | 1,093 |
| Floor | | 0 | | 0 | 0 | 0 | o o | Floor | | 0,0.0 | 0,0.0 | 0.00 | Terminal | 1,093 | |
| Adjacent Floor | | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | Floor | 0 | 0 | 0.00 | Main Fan | 1,093 | 1,093 |
| Infiltration | | 0 | | 0 | 0 | 0 | 0 | Infiltration | ı | 0 | 0 | 0.00 | Sec Fan | 0 | 0 |
| Sub Total ==> | 9 | 62 | 63 | 1,025 | 3: | 1,175 | 6 | Sub Total | ==> | -4,043 | -4,135 | 45.83 | Nom Vent | 105 | 105 |
| | | | | | | | | | | | | | AHU Vent | 105 | 105 |
| Internal Loads | | | | | | | | Internal Loa | ds | | | | Infil | 0 | 0 |
| Lights | 10,13 | 30 | 0 | 10,130 | 32 | 10,130 | 54 | Lights | | 0 | 0 | 0.00 | Min Stop/Rh | 0 | 0 |
| People | 6,30 | 00 | 0 | 6,300 | 20 | 3,500 | 19 | People | | 0 | 0 | 0.00 | Return | 1,093 | |
| Misc | 3,4 | 13 | 0 | 3,413 | 11 | 3,413 | 18 | Misc | | 0 | 0 | 0.00 | Exhaust | 105 | |
| Sub Total ==> | 19.8 | 13 | 0 | 19,843 | 63 | 17,043 | 90 | Sub Total | ==> | 0 | 0 | 0.00 | Rm Exh | 0 | |
| | | | | | | | | | | | | | Auxiliary | 0 | |
| Ceiling Load | 50 |)5 | -505 | 0 | 0 | 667 | 4 | Ceiling Loa | | -463 | 0 | 0.00 | Leakage Dwn | 0 | |
| Ventilation Load | | 0 | 0 | 10,593 | 34 : | 0 | 0 | Ventilation | | 0 | -3,630 | 40.23 | Leakage Ups | 0 | 0 |
| Adj Air Trans Hea | | 0 | | 0 | 0 | 0 | 0 | Adj Air Tran | | 0 | 0 | 0 | | | |
| Dehumid. Ov Sizi | ing | | | 0 | 0 | | | Ov/Undr Siz | | 0 | 0 | 0.00 | | | |
| Ov/Undr Sizing | | 0 | -103 | -103 | 0: | 0 | 0 | Exhaust He | | | 94 0 | -1.04 0.00 | ENGIN | NEERING C | KS |
| Exhaust Heat Sup. Fan Heat | | | -103 | -103 | 0 | | | OA Preheat RA Preheat | | | 0 | 0.00 | | Cooling | Heating |
| Ret. Fan Heat | | | 0 | 0 | 0: | | | Additional F | | | 0 | 0.00 | % OA | 9.6 | 9.6 |
| Duct Heat Pkup | | | ő | ő | 0 | | | System Ple | | | -1.351 | 14.98 | cfm/ft² | 0.74 | 0.74 |
| Underfir Sup Ht F | Pkup | | | ŏ | 0 | | | Underfir Su | | | 0 | 0.00 | cfm/ton | 418.28 | |
| Supply Air Leaka | | | 0 | 0 | 0 | | | Supply Air | | | 0 | 0.00 | ft²/ton | 567.89 | |
| | e - | | | | - | | | | | | | | Btu/hr-ft² | 21.13 | -6.08 |
| Grand Total ==> | 21,3 | 10 | -545 | 31,358 | 100.00 | 18,886 | 100.00 | Grand Tota | ==> | -4,507 | -9,022 | 100.00 | No. People | 14 | |
| | | | | COIL SELE | | | | | | AREAS | | н | EATING COIL | | |
| | Total Capaci ton Mi | | Sens Cap. C MBh | Coil Airflow cfm | | r DB/WB/HR °F gr/lb | | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent Ly |
| Main Clg | 2.6 31 | 4 | 19.1 | 1.093 | 77.1 6 | 5.1 94.6 | 56.0 5 | 5.2 78.4 | Floor | 1.484 | ` ' | Main Htg | -9.0 | 1.093 | 65.5 74. |
| Aux Clg | | .0 | 0.0 | 1,093 | | 0.0 0.0 | | 0.0 0.0 | Part | 263 | | Maili Htg Aux Htg | 0.0 | 1,093 | 0.0 0. |
| Opt Vent | | .0 | 0.0 | 0 | | 0.0 0.0 | | 0.0 0.0 | Int Door | | | Preheat | 0.0 | 0 | 0.0 0. |
| • | | | | | | | | | ExFlr | 0 | | | | - | |
| Total | 2.6 31 | .4 | | | | | | | Roof Wall | 0 38 | | Humidif | 0.0 0.0 | 0 | 0.0 0. 0.0 0. |
| | | | | | | | | | | | - | Opt Vent | | U | U.U U. |
| | | | | | | | | | Ext Doo | r 0 | 0 0 | Total | -9.0 | | |

Room Checksums By Trane

| | COOLIN | IG C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | TEM | PERATURE | S |
|--------------------------------|------------------------------|-------------|-----------------------|------------------------------|---------------------|-------------------|---------------------|--------------------------|--------------|--------------------------|------------------------------|---------------------|--------------------------|-------------------------|----------------|
| Pea | ked at Time: Outside Air: | | | Hr: 5 / 15 R: 87 / 86 / 2 | 37 | Mo/Hr: OADB: | | | | Mo/Hr: I OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 52.2 76.1 | Heat 8 6 |
| | Sp Sens. + | ace Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | Coil Peal Tot Sens | Percent Of Total | Return Ret/OA | 76.1 78.2 | 6 |
| | B | tu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/f | (%) | Fn MtrTD | 0.0 | |
| nvelope Loads Skylite Solar | | 0 | 0 | 0 | 0: | 0 | | Envelope Lo | | | (| 0.00 | Fn BldTD | 0.0 | |
| Skylite Solar Skylite Cond | | 0 | 0 | 0 | 0: | 0 | 0 | Skylite So Skylite Co | | 0 | | | Fn Frict | 0.0 | |
| Roof Cond | | Ö | 0 | 0 | 0: | 0 | o : | Roof Con | | 0 | Ċ | | | | |
| Glass Solar | | ñ | ñ | 0 | 0: | 0 | o : | Glass Sol | | ő | ì | | Δ. | IRFLOWS | |
| Glass/Door Cond | | ő | ő | ő | 0: | ő | o : | Glass/Do | | ŏ | í | | | | Her |
| Vall Cond | | 262 | 137 | 399 | 6: | 270 | 9 | Wall Cond | | -390 | -598 | 16.59 | | Cooling | |
| artition/Door | | 384 | | 384 | 6: | 537 | 18 | Partition/[| Door | -2,018 | -2,018 | 55.98 | Diffuser | 147 | |
| loor | | 0 | | 0 | 0: | 0 | 0 | Floor | | 0 | . (| 0.00 | Terminal | 147 | |
| Adjacent Floor | | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | | 0 | (| | Main Fan | 147 | |
| nfiltration | | 0 | | 0 | 0 : | 0 | 0 | Infiltration | | 0 | | | Sec Fan | 0 | |
| Sub Total ==> | | 646 | 137 | 783 | 12: | 806 | 26 | Sub Total | ==> | -2,408 | -2,616 | 72.57 | Nom Vent | 30 | |
| | | | | | | | | | 4- | | | | AHU Vent | 30 | |
| ernal Loads | | | | | : | | | Internal Loa | as | | | | Infil | 0 | |
| .ights | | 181 | 0 | 1,181 | 17 | 1,181 | 39 | Lights | | 0 | (| | Min Stop/Rh | 0 | |
| People | 1, | 800 | 0 | 1,800 | 27 | 1,000 | 33 | People | | 0 | (| | Return | 147 | |
| ∕lisc | | 0 | 0 | 0 | 0 ; | 0 | 0 | Misc | | 0 | (| 0.00 | Exhaust | 30 | |
| Sub Total ==> | 2, | 981 | 0 | 2,981 | 44 | 2,181 | 71 | Sub Total | ==> | 0 | (| 0.00 | Rm Exh Auxiliary | 0 | |
| eiling Load | | 59 | -59 | 0 | 0: | 78 | 3 | Ceiling Load | 4 | -54 | (| 0.00 | Leakage Dwn | 0 | |
| entilation Load | | 0 | -59 | 3.025 | 45 | ,0 | 0 | Ventilation I | | 0 | -1,037 | | Leakage Ups | 0 | |
| di Air Trans Hea | | 0 | · · | 0,020 | 0: | 0 | | Adi Air Tran | | 0 | ., | | Leakage Ops | | |
| ehumid. Ov Sizii | | | | 0 | 0: | 0 | | Ov/Undr Siz | | 0 | ì | | | | |
| //Undr Sizina | '9 | 0 | | 0 | 0: | 0 | 0 | Exhaust He | | | 27 | | ENGIN | IEERING C | v e |
| chaust Heat | | | -29 | -29 | ő: | | | OA Preheat | | | - (| | ENGIN | ILEKING C | N3 |
| p. Fan Heat | | | | 0 | 0: | | | RA Preheat | | | Ċ | 0.00 | | Cooling | Heat |
| et. Fan Heat | | | 0 | 0 | 0: | | | Additional F | | | (| | % OA | 20.3 | 2 |
| ict Heat Pkup | | | 0 | 0 | 0: | | | System Plea | | | 21 | | cfm/ft² | 0.85 | 0 |
| nderfir Sup Ht P | | | | 0 | 0 | | | Underfir Su | | | (| | cfm/ton | 261.77 | |
| pply Air Leakag | je | | 0 | 0 | 0 : | | | Supply Air I | _eakage | | (| 0.00 | ft²/ton | 307.16 | |
| rand Total ==> | 3, | 686 | 49 | 6,759 | 100.00 | 3,065 | 100.00 | Grand Total | ==> | -2,462 | -3,605 | 100.00 | Btu/hr·ft² No. People | 39.07 4 | -20 |
| | | | COOLING | COIL SELE | спои | | | | | AREAS | | Н | EATING COIL | SELECTIO | N |
| | Total Capa ton N | city 1Bh | Sens Cap. C MBh | coil Airflow | | DB/WB/HR gr/lb | | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F |
| ain Clg | 0.6 | 6.8 | 3.3 | 147 | 78.2 68.3 | 111.6 | 52.2 52 | | Floor | 173 | | Main Htg | -3.6 | 147 | 61.5 |
| ıx Clg | 0.0 | 0.0 | 0.0 | 0 | 0.0 0.0 | 0.0 | 0.0 | 0.0 | Part | 137 | | Aux Htg | 0.0 | 0 | 0.0 |
| t Vent | 0.0 | 0.0 | 0.0 | 0 | 0.0 0.0 | 0.0 | 0.0 | 0.0 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 |
| tal | 0.6 | 60 | | | | | | | ExFIr | 0 | 0 0 | Llumidif | 0.0 | | 0.0 |
| tal | 0.6 | 6.8 | | | | | | | Roof Wall | 86 | 0 0 | Humidif Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | | Ext Door | | 0 0 | | | U | 0.0 |
| | | | | | | | | | | | | Total | -3.6 | | |

By Trane

PB Area 35 Control de acceso

| | coo | LING C | OIL PEAK | | С | LG SPACE | PEAK | | | HEATING | COIL PE | AK | | TEMI | PERATURE | S | |
|--|-----------------------|----------------------------|--------------------------------|-------------------------|----------------------------|----------------------------|----------------------------|--|---------------------------|-----------------------------------|-----------------|------------------|----------------------------|----------------------------------|--------------------------|-------------|---------------------|
| Pea | ked at Tir Outside | | | Hr: 3/13 HR: 78/78/1 | 81 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating E 32 | esign) | | SADB Ra Plenum | Cooling 59.6 75.2 | | 73.2 69.0 |
| | Sens | Space . + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) | Space Sensible Btu/h | Percent Of Total (%) | | | Space Peak Space Sens Btu/h | | | Percent Of Total (%) | Return Ret/OA Fn MtrTD | 75.2 75.3 0.0 | | 69.0 67.6 0.0 |
| Envelope Loads Skylite Solar | | 0 | 0 | 0 | 0 | 0 | 0 | Envelope L Skylite S | olar | 0 | | 0 | 0.00 | Fn BldTD Fn Frict | 0.0 | | 0.0 |
| Skylite Cond Roof Cond Glass Solar | | 0 0 9.158 | 883 0 | 0 883 9.158 | 0 5 57 | 0 0 11.892 | 0 0 85 | Skylite C Roof Cor Glass So | d | 0 | | -1,941 0 | 0.00 38.43 0.00 | ΔΙ | IRFLOWS | | _ |
| Glass/Door Cond Wall Cond | | -57 -17 | 0 -53 | -57 -70 | 0: | -638 -173 | -5 -1 | Glass/Do | or Cond | -2,358 -459 | | -2,358 -1,675 | 46.70 33.17 | | Cooling | | eating |
| Partition/Door Floor | | 0 | | 0 | 0: | 0 | 0 | Partition/ Floor | | 0 | | 0 | 0.00 0.00 | Diffuser Terminal Main Fan | 997 997 997 | , | 997 997 997 |
| Adjacent Floor Infiltration Sub Total ==> | | 0 0 9,085 | 0 830 | 0 0 9,914 | 0 0 62 | 0 0 11.081 | 0 0 79 | Adjacent Infiltration Sub Tota | 1 | 0 0 -2.817 | | 0 0 -5,974 | 0.00 0.00 118.30 | Sec Fan Nom Vent | 38 |) | 997 0 38 |
| Internal Loads | | 3,003 | 050 | 5,514 | 02 | 11,001 | 15 | Internal Loa | | 2,017 | | 0,014 | 110.50 | AHU Vent | 38 | 3 | 38 |
| Lights People | | 1,676 2,250 | 0 | 1,676 2,250 | 10 14 | 1,676 1,250 | 12 9 | Lights People | | 0 | | 0 | 0.00 | Min Stop/Rh Return | 997 |) | 997 |
| Misc Sub Total ==> | | 0 3,926 | 0 | 0 3,926 | 0 24 | 0 2,926 | 0 21 | Misc Sub Tota | ==> | 0 | | 0 | 0.00 | Exhaust Rm Exh | 38 |) | 38 |
| Ceiling Load Ventilation Load | | 18 0 | -18 0 | 0 | 0 | -25 0 | 0 | Ceiling Loa Ventilation | | -77 0 | | 0 -1,296 | 0.00 25.67 | Auxiliary Leakage Dwn | 0 |) | (|
| Adj Air Trans Hea Dehumid, Ov Sizi | | 0 | U | 2,281 0 0 | 14 ; 0 ; 0 ; | 0 | | Adj Air Trar Ov/Undr Si | s Heat | 0 | | 0 | 0.00 | Leakage Ups | | | _ |
| Ov/Undr Sizing Exhaust Heat | . 9 | 0 | -8 | 0 -8 | 0 | 0 | 0 | Exhaust He OA Preheat | at Diff. | Ū | | 34 0 | -0.67 0.00 | ENGIN | EERING C | | |
| Sup. Fan Heat Ret. Fan Heat Duct Heat Pkup | | | 0 | 0 0 | 0: 0: 0: | | | RA Preheat Additional System Ple | Reheat | | | 0 0 2,187 | 0.00 0.00 -43.30 | % OA cfm/ft² | Cooling 3.8 4.06 | | 3.8 4.06 |
| Underfir Sup Ht P Supply Air Leakag | | | 0 | 0 | 0 | | | Underfir Su Supply Air | p Ht Pkup | | | 0 | 0.00 | cfm/ton ft²/ton | 742.34 182.86 | | 4.00 |
| Grand Total ==> | | 13,028 | 804 | 16,114 | 100.00 | 13,982 | 100.00 | Grand Tota | / ==> | -2,894 | | -5,050 | 100.00 | Btu/hr-ft² No. People | 65.63 5 | -2 | 20.57 |
| | Total Ca | nacity | | COIL SELE | ECTION Enter DE | RAWR/HP | Leave | DB/WB/HR | | AREAS Gross Total | Glass | | HE | ATING COIL | SELECTIO Coil Airflow | N Ent | t Lv |
| | ton | MBh | MBh | cfm | °F °F | gr/lb | °F | °F gr/lb | | | | (%) | | MBh | cfm | °F | |
| Main Clg Aux Clg | 1.3 0.0 | 16.1 | 12.9 0.0 | 997 0 | | 83.3 0.0 | | 0.0 0.0 | Floor Part | 246 0 | | - 1 | Main Htg Aux Htg | -5.1 0.0 | 0 | 67.6 0.0 | 73. 0. |
| Opt Vent Total | 1.3 | 0.0 | 0.0 | 0 | 0.0 0.0 | 0.0 | 0.0 | 0.0 0.0 | Int Door ExFIr Roof | 0 0 246 | 0 | | Preheat Humidif | 0.0 | 0 | 0.0 | 0 |
| roidi | 1.0 | 10.1 | | | | | | | Wall Ext Door | 504 | 261 0 | 52 | Opt Vent Total | 0.0 0.0 -5.1 | 0 | 0.0 | 0. |

| | COOLING | COIL PEA | K | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | TEM | PERATURE | S |
|--------------------------------|------------------------------|----------|-------------------------------------|---------------------|------------------------|---------------------|----------------------|---------|--------------------------|----------------------|---------------------|--------------------------|-------------------------|----------------------|
| Pea | ked at Time: Outside Air: | OADB/\ | Mo/Hr: 5 / 17 VB/HR: 84 / 83 / 2 | 216 | Mo/Hr: OADB: | | | | Mo/Hr: I OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 54.3 76.4 | Heatin 75. 69. |
| | Space Sens. + Lat | | | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | Percent Of Total | Return Ret/OA | 76.4 77.7 | 69. 62. |
| | Btu/f | n Btu | /h Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | 0. |
| nvelope Loads | | | | ; | | | Envelope L | | | | | Fn BldTD | 0.0 | 0. |
| Skylite Solar | (| | 0 0 | 0 : | 0 | 0 | | | 0 | (| | Fn Frict | 0.0 | 0. |
| Skylite Cond | (| | 0 0 | 0 | 0 | 0 | Skylite C | | 0 | (| | | | |
| Roof Cond | (| | | 38 | 0 | 0 | Roof Cor | | 0 | -14,357 | | II . | IDEL OVACE | |
| Glass Solar | . (| | 0 0 | 0 ; | 0 | 0 | Glass So | | 0 | (| | A | IRFLOWS | |
| Glass/Door Cond | | | 0 0 | 0 ; | 0 | 0 | Glass/Do | | 0 | | | | Cooling | Heati |
| Wall Cond | 3,13 | | | 6: | 3,744 | 15 | Wall Con | | -4,555 | -6,978 | | Diffuser | 1,320 | 1,3 |
| Partition/Door Floor | 492 | | 492 0 | 1: | 403 0 | 2 | Partition/ | Door | -1,956 0 | -1,956 | | Terminal | 1.320 | 1,3 |
| | (| | 0 0 | 0: | 0 | 0 | Adjacent | Floor | 0 | | | Main Fan | 1,320 | 1,3 |
| Adjacent Floor Infiltration | | | 0 0 | 0: | 0 | 0 | Infiltration | | 0 | , | | Sec Fan | 0 | 1,0 |
| | | | | | 4.147 | 17 | Sub Tota | | -6.511 | -23,291 | 0.00 | | | |
| Sub Total ==> | 3,624 | 32,40 | 36,027 | 45 | 4,147 | 17 | Sub rota | 1==> | -0,511 | -23,291 | 147.05 | Nom Vent | 225 | 2 |
| | | | | ; | | | Internal Loa | ade | | | | AHU Vent | 225 | 2 |
| nternal Loads | | | | | | | | aus | | | | Infil | 0 | |
| Lights | 12,399 | | 0 12,399 | 15 | 12,399 | 50 | | | 0 | (| | Min Stop/Rh | 0 | |
| People | 13,500 | | 0 13,500 | 17 | | 30 | People | | 0 | (| | Return | 1,320 | 1,3 |
| Misc | (|) | 0 0 | 0 ; | 0 | 0 | Misc | | 0 | (| 0.00 | Exhaust | 225 | 2 |
| Sub Total ==> | 25,899 |) | 0 25,899 | 32 | 19,899 | 80 | Sub Tota | /==> | 0 | (| 0.00 | Rm Exh | 0 | |
| | | | | | | | | | | | | Auxiliary | 0 | |
| Ceiling Load | 817 | | | 0 | 825 | | Ceiling Loa | | -567 | (| | Leakage Dwn | 0 | |
| Ventilation Load | . (| | 0 19,289 | 24; | 0 | 0 | Ventilation | | 0 | -7,779 | | Leakage Ups | 0 | |
| Adj Air Trans Hea | |) | 0 | 0 | 0 | 0 | Adj Air Tran | | 0 | (| _ | | | |
| Dehumid. Ov Sizi | | | 0 | 0 | | | Ov/Undr Siz | | 0 | (| | | | |
| Ov/Undr Sizing | (| | 0 | 0: | 0 | 0 | Exhaust He | | | 202 | | ENGIN | NEERING C | KS |
| Exhaust Heat | | -29 | | 0; | | | OA Preheat | | | (| | | 0 | |
| Sup. Fan Heat | | | 0 | 0 ; | | | RA Preheat | | | (| | % OA | Cooling 17.0 | Heating 17. |
| Ret. Fan Heat | | | 0 0 | 0: | | | Additional I | | | 15.029 | | | 0.73 | 0.7 |
| Duct Heat Pkup | | | 0 0 | 0 | | | System Ple | | | | | cfm/ft² | | 0.7 |
| Underfir Sup Ht P | | | 0 | 0 | | | Underfir Su | | | (| 0.00 | cfm/ton | 195.76 | |
| Supply Air Leaka | je | | 0 0 | 0 ; | | | Supply Air | Leakage | | (| 0.00 | ft²/ton | 269.35 | |
| Grand Total ==> | 30,339 | 31,29 | 6 80,924 | 100.00 | 24,870 | 100.00 | Grand Tota | / ==> | -7,078 | -15,838 | 100.00 | Btu/hr-ft² No. People | 44.55 30 | -8.7 |
| | | | NG COIL SEL | | | | | | AREAS | | Н | EATING COIL | | |
| | Total Capacity ton MBI | | | | r DB/WB/HR °F gr/lb | | DB/WB/HR °F gr/lb | | Gross Total | Glass ft² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F |
| Main Cla | 6.7 80.9 | 57. | 4 1.32 | 77.7 66 | 6.7 102.8 | 54.3 4 | 3.4 33.7 | Floor | 1.816 | | Main Htg | -15.8 | 1.320 | 62.7 |
| Aux Cla | 0.0 0.0 | | | | 0.0 0.0 | | 0.0 0.0 | Part | 133 | | Aux Htg | 0.0 | 0 | 0.0 |
| Opt Vent | 0.0 0.0 | | | | 0.0 0.0 | | 0.0 0.0 | Int Doo | | | Preheat | 0.0 | 0 | 0.0 |
| op. vonc | 5.5 0.0 | U. | • | . 0.0 | 0.0 | 0.0 | 0.0 | ExFir | 0 | | ········· | 0.0 | 0 | J.U |
| Total | 6.7 80.9 |) | | | | | | Roof | 1.816 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | 5 | • | | | | | | Wall | 1,004 | 0 0 | Opt Vent | 0.0 | ő | 0.0 |
| | | | | | | | | Ext Doo | | 0 0 | Total | -15.8 | · · | |

By Trane

PB Area 37 Comision Nal de Seguridad

| | CO | OLING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PEAK | | TEMP | PERATURE | s |
|-----------------------------------|----------------------|-----------------|---------------------|-----------------------------|----------|---------------------|-------------|----------------------------|----------|-----------------|------------------------------|--------------------|---------------------|-------------------------|----------------------|
| Pe | aked at 1 Outside | | Mo/H OADB/WB/HF | r: 5 / 15 R: 87 / 86 / 2 | 37 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | 1 | SADB Ra Plenum | Cooling 56.8 76.1 | Heatin 77. 69. |
| | | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil Pe | ak Percent | Ra Plenum Return | 76.1 76.1 | 69. |
| | Ser | 1s. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | Tot Se | | Ret/OA | 76.9 | 66. |
| | | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu | | Fn MtrTD | 0.0 | 0. |
| Envelope Loads | | | | | (, | | (, | Envelope L | oads | | | (, | Fn BldTD | 0.0 | 0. |
| Skylite Solar | | 0 | 0 | 0 | 0: | 0 | 0 | Skylite S | olar | 0 | | 0.00 | Fn Frict | 0.0 | 0. |
| Skylite Cond | | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | 0.00 | | | |
| Roof Cond | | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | 0.00 | | | |
| Glass Solar | | 0 | 0 | 0 | 0 : | 0 | 0 | | | 0 | | 0.00 | AI | RFLOWS | |
| Glass/Door Co | nd | 0 | 0 | 0 | 0 ; | 0 | 0 | | | 0 | | 0.00 | | Cooling | Heati |
| Wall Cond | | 1,283 | 672 | 1,955 | 14: | 1,342 | 16 | | | -1,872 | -2,8 | | Diffuser | 508 | 5 |
| Partition/Door | | 220 | | 220 | 2: | 349 0 | 4 | | Door | -1,388 0 | -1,3 | 38 27.45 0 0.00 | Terminal | 508 | |
| Floor | | 0 | 0 | 0 | 0: | 0 | 0 | | Flans | 0 | | 0 0.00 | Main Fan | 508 | 5 |
| Adjacent Floor Infiltration | | 0 | U | 0 | 0: | 0 | 0 | | | 0 | | 0.00 | Sec Fan | 0 | - |
| | | 1,503 | 672 | 2,175 | 16: | 1,692 | 20 | | | -3,260 | -4.2 | | | - | |
| Sub Total ==> | | 1,503 | 0/2 | 2,175 | 16: | 1,092 | 20 | : Sub rota | | -3,200 | -4,2 | 0 04.10 | Nom Vent | 38 | |
| | | | | | | | | Internal Loa | rte | | | | AHU Vent | 38 | |
| Internal Loads | | | | | | | | | ius | | | | Infil | 0 | |
| Lights | | 1,744 | 0 | 1,744 | 13 | 1,744 | 21 | | | 0 | | 0.00 | Min Stop/Rh | 0 | |
| People | | 2,250 | 0 | 2,250 | 17 | 1,250 | 15 | | | 0 | | 0.00 | Return | 508 | |
| Misc | | 3,584 | 0 | 3,584 | 27 | 3,584 | 43 | | | 0 | | 0.00 | Exhaust | 38 | |
| Sub Total ==> | | 7,577 | 0 | 7,577 | 56 | 6,577 | 78 | Sub Tota | ==> | 0 | | 0.00 | Rm Exh | 0 | |
| Calling Land | | 0.7 | | | | 445 | | Callian Lan | | -80 | | 0 0.00 | Auxiliary | 0 | |
| Ceiling Load Ventilation Load | | 87 | -87 | 0 | 0 | 115 0 | 1 | Ceiling Loa Ventilation | | -80 0 | -1.2 | | Leakage Dwn | 0 | |
| Adj Air Trans He | | 0 | 0 | 3,785 | 28 ; | | 0 | Adj Air Trai | | 0 | -1,2 | 0 25.63 | Leakage Ups | 0 | |
| | | 0 | | 0 | 0 | 0 | 0 | | | 0 | | | | | |
| Dehumid. Ov Si: Ov/Undr Sizina | zıng | | | 0 | 0 | | | Ov/Undr Si Exhaust He | | 0 | | 0 0.00 34 -0.66 | | | |
| Exhaust Heat | | 0 | -37 | -37 | 0: | 0 | 0 | OA Preheat | | | | 0 0.00 | ENGIN | IEERING C | KS |
| Sup. Fan Heat | | | -31 | -37 | 0: | | | RA Preheat | | | | 0.00 | | Cooling | Heating |
| Ret. Fan Heat | | | 0 | 0 | 0: | | | Additional | | | | 0.00 | % OA | 7.4 | 7. |
| Duct Heat Pkup | | | ŏ | ő | 0: | | | System Ple | | | 4 | | cfm/ft² | 1.99 | 1.9 |
| Underfir Sup Ht | Pkup | | | ő | 0 | | | Underfir Su | | | | 0.00 | cfm/ton | 451.12 | |
| Supply Air Leak | | | 0 | 0 | 0: | | | Supply Air | | | | 0 0.00 | ft²/ton | 227.05 | |
| ouppiy rim coun | ago | | | | | | | - cappy rai | country | | | 0.00 | Btu/hr-ft² | 52.85 | -19.8 |
| Grand Total ==> | • | 9,167 | 548 | 13,500 | 100.00 | 8,384 | 100.00 | Grand Tota | / ==> | -3,340 | -5,0 | 58 100.00 | No. People | 5 | |
| | | | COOLING O | OIL SELE | стои | | | | | AREAS | 3 | Н | EATING COIL | SELECTIO | N |
| | Total of | Capacity MBh | Sens Cap. Co MBh | oil Airflow cfm | | DB/WB/HR F gr/lb | Leave °F | °F gr/lb | ' | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent I |
| Main Clg | 1.1 | 13.5 | 9.1 | 508 | 76.9 64. | 4 91.0 | 56.8 5 | | Floor | 255 | | Main Htg | -5.1 | | 66.3 7 |
| Aux Clg | 0.0 | 0.0 | 0.0 | 0 | 0.0 0. | | 0.0 | 0.0 0.0 | Part | 94 | | Aux Htg | 0.0 | 0 | 0.0 |
| Opt Vent | 0.0 | 0.0 | 0.0 | 0 | 0.0 0. | 0.0 | 0.0 | 0.0 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 |
| | | | | | | | | | ExFlr | 0 | | П | | | |
| Total | 1.1 | 13.5 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | | | | | | | | | Wall | 413 | 0 0 | Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | | Ext Door | 0 | 0 0 | Total | -5.1 | | |

Room Checksums

By Trane

| | COOL | LING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | | TEM | PERATURE | S |
|--------------------------------|-------------------------|-----------------|-----------------------|--------------------------------|---------------------|-------------------------------|---------------------|---------------------------|--------------|--------------------------|----------------------|---------------|-------|--------------------------|-------------------------|-------------------|
| | ked at Tim Outside A | | | /Hr: 5 / 16 HR: 86 / 85 / 2 | 31 | Mo/Hr: OADB: | | : | | Mo/Hr: OADB: | Heating Design 32 | | | SADB Ra Plenum | Cooling 58.0 76.3 | Heati 77 69 |
| | | Space + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | Coil Pea | | | Return Ret/OA | 76.3 76.7 | 69 67 |
| | | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | | | Btu/h | Btu | 'h | (%) | Fn MtrTD | 0.0 | (|
| nvelope Loads Skylite Solar | | 0 | 0 | 0 | 0 | 0 | 0 | : Envelope : Skylite : | | 0 | | 0 | 0.00 | Fn BldTD Fn Frict | 0.0 | (|
| Skylite Cond | | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | | 0.00 | FII FIICE | 0.0 | |
| Roof Cond | | ő | 1.102 | 1.102 | 14 | ő | 0 | | | 0 | -59 | | 20.86 | | | |
| Glass Solar | | 865 | ., | 865 | 11 | 823 | 17 | | | 0 | | | 0.00 | AI | RFLOWS | |
| Glass/Door Cond | | 178 | Ō | 178 | 2 | 171 | 4 | Glass/D | oor Cond | -695 | -69 | | 24.41 | | | Heat |
| Wall Cond | | 104 | 156 | 259 | 3 : | 122 | 3 | : Wall Co | nd | -268 | -69 | 6 2 | 24.47 | | Cooling | |
| Partition/Door | | 208 | | 208 | 3: | 249 | 5 | | /Door | -1,076 | -1,07 | 6 3 | 37.83 | Diffuser | 310 | |
| Floor | | 0 | | 0 | 0: | 0 | 0 | Floor | | 0 | | 0 | 0.00 | Terminal | 310 | |
| Adjacent Floor | | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | | 0.00 | Main Fan | 310 | |
| Infiltration | | 0 | | 0 | 0 | 0 | 0 | | | 0 | | | 0.00 | Sec Fan | 0 | |
| Sub Total ==> | | 1,356 | 1,258 | 2,613 | 33: | 1,365 | 28 | : Sub Tot | 9/ ==> | -2,039 | -3,06 | 1 10 | 07.58 | Nom Vent | 15 | |
| | | | | | | | | | | | | | | AHU Vent | 15 | |
| ternal Loads | | | | | | | | Internal Lo | ads | | | | | Infil | 0 | |
| Liahts | | 513 | 0 | 513 | 7 | 513 | 11 | Lights | | 0 | | 0 | 0.00 | Min Stop/Rh | 0 | |
| People | | 900 | 0 | 900 | 11 | 500 | 10 | People | | 0 | | 0 | 0.00 | Return | 310 | |
| Misc | | 2,389 | 0 | 2,389 | 30 | 2,389 | 50 | Misc | | 0 | | 0 | 0.00 | Exhaust | 15 | |
| Sub Total ==> | | 3.802 | 0 | 3.802 | 48 | 3.402 | 71 | Sub Tot | 9/==> | 0 | | 0 | 0.00 | Rm Exh | 0 | |
| oub rotur | | 0,002 | Ü | 0,002 | | 0,402 | | | ar | Ü | | | 0.00 | Auxiliary | 0 | |
| eiling Load | | 30 | -30 | 0 | 0 : | 34 | 1 | Ceiling Lo | ad | -23 | | 0 | 0.00 | Leakage Dwn | 0 | |
| entilation Load | | 0 | 0 | 1,445 | 18 | 0 | 0 | Ventilation | Load | 0 | -51 | 9 1 | 18.23 | Leakage Ups | 0 | |
| dj Air Trans Heat | t | 0 | | 0 | 0 | 0 | 0 | : Adj Air Tra | ns Heat | 0 | | 0 | 0 | | | |
| ehumid. Ov Sizir | na | | | 0 | 0: | | | Ov/Undr S | izina | 0 | | 0 | 0.00 | | | |
| v/Undr Sizing | -0 | 0 | | ō | 0 | 0 | 0 | Exhaust H | eat | _ | 1 | | -0.47 | FNGIN | EERING C | KS |
| xhaust Heat | | - | -17 | -17 | Ō: | - | - | OA Prehea | t Diff. | | | 0 | 0.00 | 2.10 | | |
| up. Fan Heat | | | | 0 | 0 : | | | : RA Prehea | | | | | 0.00 | | Cooling | Heati |
| et. Fan Heat | | | 0 | 0 | 0: | | | : Additional | | | | | 0.00 | % OA | 4.8 | |
| uct Heat Pkup | | | 0 | 0 | 0 | | | | enum Heat | | 72 | | 25.33 | cfm/ft² | 4.13 | 4. |
| nderfir Sup Ht Pi | | | | 0 | 0 | | | | up Ht Pkup | | | | 0.00 | cfm/ton | 474.68 | |
| upply Air Leakag | e | | 0 | 0 | 0 | | | Supply Air | Leakage | | | 0 | 0.00 | ft²/ton | 114.92 | |
| rand Total ==> | | 5,188 | 1,210 | 7,843 | 100.00 | 4,801 | 100.00 | Grand Tot | a/ ==> | -2,062 | -2,84 | 5 10 | 00.00 | Btu/hr-ft² No. People | 104.42 2 | -37. |
| | | | COOLING | COIL SELE | CTION | | | | | AREAS | | | HE | ATING COIL | SELECTIO | N |
| | Total Ca ton | pacity MBh | Sens Cap. MBh | Coil Airflow cfm | | r DB/WB/HR °F gr/lb | Leav °F | e DB/WB/HF °F gr/lb | 1 | Gross Total | Glass ft² (%) | | | Capacity MBh | Coil Airflow cfm | Ent °F |
| ain Cla | 0.7 | 7.8 | 6.2 | 310 | 76.7.63 | 86 867 | 58.0 5 | 546 726 | Floor | 75 | | Main | Hta | -2.9 | 310 | 67.2 |
| ux Clg | 0.0 | 0.0 | 0.0 | 0 | | 0.0 | | 0.0 0.0 | Part | 73 | | Aux | | 0.0 | 0 | 0.0 |
| pt Vent | 0.0 | 0.0 | 0.0 | 0 | | | 0.0 | | Int Door | | | Preh | | 0.0 | 0 | 0.0 |
| or sem | U.U | 0.0 | 0.0 | U | 0.0 0 | 7.0 0.0 | 0.0 | 0.0 0.0 | ExFir | 0 | | Freii | eat | 0.0 | U | 0.0 |
| | 0.7 | 7.8 | | | | | | | | | | l | | | | |
| | | | | | | | | | | | | | | | | |
| otal | 0.7 | 7.0 | | | | | | | Roof Wall | 75 178 | 0 0 77 43 | Humi Opt \ | | 0.0 0.0 | 0 | 0.0 |

N1 Area 01 Titular

| | cod | DLING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PEA | K | | TEM | PERATURE | S | |
|-------------------|----------------------|-----------|-------------|----------------------------------|----------|-----------------|----------|--------------|------------|-----------------|-------------|-------|----------|---------------------|-----------------|------|--------------|
| Pe | aked at T Outside | | | o/Hr: 4 / 18 /HR: 79 / 79 / 1 | 84 : | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Des | sign | | SADB | Cooling 60.4 | Hea | ting 75.3 |
| | | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil | Peak | Percent | Ra Plenum Return | 75.4 75.4 | | 69.4 69.4 |
| | Sen | s. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | : | | Space Sens | | | Of Total | Ret/OA | 75.5 | | 68.7 |
| | | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | | Btu/h | | Fn MtrTD | 0.0 | | 0.0 |
| Envelope Loads | | | | | | | | Envelope L | oads | | | | | Fn BldTD | 0.0 | | 0.0 |
| Skylite Solar | | 0 | 0 | 0 | 0: | 0 | 0 | Skylite S | olar | 0 | | 0 | | Fn Frict | 0.0 | | 0.0 |
| Skylite Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite C | | 0 | | 0 | | | | | |
| Roof Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Roof Cor | | 0 | | 0 | | | | | |
| Glass Solar | | 9,850 | 0 | 9,850 | 50 | 9,850 | 57 | Glass So | | 0 | | 0 | | A | IRFLOWS | | |
| Glass/Door Con | ıd | 56 | 0 | 56 | 0; | 56 | 0 | Glass/Do | | -348 | | -348 | | | Cooling | He | ating |
| Wall Cond | | 339 | 534 | 872 | 4: | 339 | 2 | Wall Con | | -469 | | 1,208 | | Diffuser | 1,300 | | 1.300 |
| Partition/Door | | 1,118 | | 1,118 | 6: | 1,118 | 6 | Partition/ | Door | -5,345 | | 5,345 | 69.30 | Terminal | , | | 1.300 |
| Floor | | 0 | _ | 0 | 0 | 0 | 0 | Floor | | 0 | | 0 | | Main Fan | 1,300 1,300 | | 1,300 |
| Adjacent Floor | | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | | 0 | | 0 | | 1 | | | |
| Infiltration | | 0 | | 0 | 0 | 0 | 0 | Infiltration | | 0 | | 0 | | Sec Fan | 0 | | 0 |
| Sub Total ==> | | 11,363 | 534 | 11,897 | 60: | 11,363 | 66 | Sub Tota | /==> | -6,163 | -6 | 6,901 | 89.48 | Nom Vent | 23 | | 23 |
| | | | | | | | | Internal Lea | | | | | | AHU Vent | 23 | | 23 |
| Internal Loads | | | | | : | | | Internal Loa | ads | | | | | Infil | 0 | | 0 |
| Lights | | 1,662 | 0 | 1,662 | 8 | 1,662 | 10 | Lights | | 0 | | 0 | | Min Stop/Rh | 0 | | 0 |
| People | | 1,350 | 0 | 1,350 | 7 | 750 | 4 | People | | 0 | | 0 | | Return | 1,300 | | 1,300 |
| Misc | | 3,413 | 0 | 3,413 | 17 | 3,413 | 20 | Misc | | 0 | | 0 | 0.00 | Exhaust | 23 | | 23 |
| Sub Total ==> | | 6,425 | 0 | 6,425 | 33 | 5,825 | 34 | Sub Tota | /==> | 0 | | 0 | 0.00 | Rm Exh Auxiliary | 0 | | 0 |
| Ceiling Load | | 32 | -32 | 0 | 0: | 32 | 0 | Ceiling Loa | d | -48 | | 0 | 0.00 | Leakage Dwn | | | 0 |
| Ventilation Load | | 0 | 0 | 1,419 | 7: | 0 | 0 | Ventilation | Load | 0 | | -778 | 10.09 | Leakage Ups | 0 | | 0 |
| Adi Air Trans He | at | 0 | | 0 | 0: | 0 | 0 | Adi Air Tran | ns Heat | 0 | | 0 | o ol | Louinago opo | | | |
| Dehumid, Ov Siz | ina | | | 0 | 0: | • | | Ov/Undr Siz | zina | 0 | | 0 | 0.00 | | | | |
| Ov/Undr Sizing | | 0 | | 0 | 0: | 0 | 0 | Exhaust He | | | | 13 | | FNGI | NEERING C | KS | |
| Exhaust Heat | | | -9 | - <u>9</u> | ő: | | | OA Preheat | | | | 0 | | LIVOI | | | |
| Sup. Fan Heat | | | | 0 | 0: | | | RA Preheat | Diff. | | | 0 | 0.00 | | Cooling | Hea | |
| Ret. Fan Heat | | | 0 | 0 | 0: | | | Additional I | Reheat | | | 0 | | % OA | 1.7 | | 1.7 |
| Duct Heat Pkup | | | 0 | 0 | 0: | | | System Ple | num Heat | | | -46 | | cfm/ft² | 5.34 | Ę | 5.34 |
| Underfir Sup Ht I | Pkup | | | 0 | 0 | | | Underfir Su | ıp Ht Pkup | | | 0 | 0.00 | cfm/ton | 790.85 | | |
| Supply Air Leaka | ige | | 0 | 0 | 0 | | | Supply Air | Leakage | | | 0 | 0.00 | ft²/ton | 148.08 | | |
| | | | | | | | | | | | | | | Btu/hr-ft² | 81.04 | -31 | 1.67 |
| Grand Total ==> | | 17,820 | 493 | 19,732 | 100.00 | 17,220 | 100.00 | Grand Tota | / ==> | -6,211 | | 7,712 | 100.00 | No. People | 3 | | |
| | | | | COIL SELE | | | | | | AREAS | | | HE | EATING COIL | | | |
| | | Capacity | Sens Cap. | Coil Airflow | | r DB/WB/HR | | DB/WB/HR | | Gross Total | Glass | | | | Coil Airflow | Ent | |
| | ton | MBh | MBh | cfm | | °F gr/lb | | °F gr/lb | | | ft² (% | 1 | | MBh | cfm | °F | °F |
| Main Clg | 1.6 | 19.7 | 17.8 | 1,300 | | | 60.4 5 | | Floor | 243 | | | Main Htg | -7.7 | | 68.7 | 75.3 |
| Aux Clg | 0.0 | 0.0 | 0.0 | C | | 0.0 | | 0.0 | Part | 363 | | | Aux Htg | 0.0 | 0 | 0.0 | 0.0 |
| Opt Vent | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 0.0 | 0.0 | 0.0 | Int Door | 0 | | | Preheat | 0.0 | 0 | 0.0 | 0.0 |
| T1 | 4.0 | 40.7 | | | | | | | ExFlr | 0 | | . | | | | | |
| Total | 1.6 | 19.7 | | | | | | | Roof | 0 | | | Humidif | 0.0 | 0 | 0.0 | 0.0 |
| | | | | | | | | | Wall | 303 | 129 4 | - 1 | Opt Vent | 0.0 | 0 | 0.0 | 0.0 |
| | | | | | | | | | Ext Door | . 0 | 0 | 0 I | Total | -7.7 | | | |

| 11 Area 02 Tit | | | | | | | | | | | | | | | | | |
|------------------------------------|----------------------|-----------|-------------|-------------------------|----------|-----------------|----------|--------------------------|----------|-----------------|-----------------|---------------|---------------|---------------------|-------------------------|------|--------------|
| | COC | LING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PE | EAK | | TEMP | ERATURE | S | |
| Pea | ked at Ti Outside | | | Hr: 4/18 IR: 79/79/1 | 84 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating I 32 | Design | | SADB Ra Plenum | Cooling 60.5 75.4 | | 74.7 69.4 |
| | | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | C | oil Peak | Percent | Return | 75.4 | | 69.4 |
| | Sens | s. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | : | | Space Sens | . Т | | Of Total | Ret/OA | 75.5 | | 68.8 |
| | | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | | Btu/h | (%) | Fn MtrTD | 0.0 | | 0.0 |
| Envelope Loads | | | | | | | | Envelope L | | | | | | Fn BldTD | 0.0 | | 0.0 |
| Skylite Solar | | 0 | 0 | 0 | 0 : | 0 | 0 | Skylite S | | 0 | | 0 | 0.00 | Fn Frict | 0.0 | | 0.0 |
| Skylite Cond Roof Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite C Roof Cor | | 0 | | 0 | 0.00 | | | | _ |
| Glass Solar | | 10.590 | 0 | 10.590 | 53 | 10.590 | 60 | Glass So | | 0 | | 0 | | A10 | RFLOWS | | |
| Glass/Door Con | | 51 | 0 | 10,590 | 0: | 10,590 | 0 | | | -348 | | -348 | 4.82 | Air | | | |
| Wall Cond | , | 72 | 499 | 571 | 3 | 72 | 0 | | | -340 -76 | | -604 | 8.36 | | Cooling | He | eating |
| Partition/Door | | 1.111 | 499 | 1,111 | 6 | 1.111 | 6 | | | -5,232 | | -5,232 | 72.40 | Diffuser | 1,338 | | 1,33 |
| Floor | | 1,111 | | 1,111 | 0: | 1,111 | 0 | Floor | Door | -5,232 | | -5,232 | 0.00 | Terminal | 1.338 | | 1.33 |
| Adjacent Floor | | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | Floor | 0 | | 0 | 0.00 | Main Fan | 1,338 | | 1,338 |
| Infiltration | | ő | 0 | ő | 0: | o o | Ö | Infiltratio | | 0 | | ő | 0.00 | Sec Fan | 0 | | (|
| Sub Total ==> | | 11.824 | 499 | 12,323 | 61 | 11.824 | 67 | Sub Tota | | -5.656 | | -6.184 | 85.58 | Nom Vent | 23 | | 23 |
| Sub Iolai> | | 11,024 | 400 | 12,323 | 01; | 11,024 | 01 | | , | 0,000 | | 0,104 | 00.00 | AHU Vent | 23 | | 23 |
| Internal Loads | | | | | | | | Internal Lo | ads | | | | | | 23 | | 2. |
| | | | | | | | | | | | | | | Infil | | | (|
| Lights | | 1,617 | 0 | 1,617 | 8 | 1,617 | 9 | Lights | | 0 | | 0 | 0.00 | Min Stop/Rh | 0 | | 1.338 |
| People | | 1,350 | 0 | 1,350 | 7 | 750 | 4 | | | 0 | | 0 | | Return | 1,338 | | |
| Misc | | 3,413 | 0 | 3,413 | 17 | 3,413 | 19 | | | 0 | | 0 | | Exhaust | 23 | | 23 |
| Sub Total ==> | | 6,380 | 0 | 6,380 | 32 | 5,780 | 33 | Sub Tota | /==> | 0 | | 0 | 0.00 | Rm Exh Auxiliary | 0 | | (|
| Ceiling Load | | 31 | -31 | 0 | 0 | 31 | 0 | Ceiling Loa | d | -47 | | 0 | 0.00 | Leakage Dwn | 0 | | 0 |
| Ventilation Load | | 0 | -31 0 | 1,419 | 7 | 0 | 0 | Ventilation | | -47 | | -778 | 10.76 | Leakage Ups | 0 | | (|
| Adi Air Trans Hea | | 0 | U | 1,419 | 0 | 0 | | Adi Air Tra | | 0 | | -,,,0 | | Leakage Ups | U | | , |
| , | | U | | | | 0 | U | | | 0 | | | | | | | |
| Dehumid. Ov Sizi Ov/Undr Sizina | ng | _ | | 0 | 0 | _ | _ | Ov/Undr Si Exhaust He | | U | | 0 13 | 0.00 -0.18 | | | | |
| | | 0 | -9 | 0 -9 | 0: | 0 | 0 | | | | | 13 | | ENGIN | EERING C | KS | |
| Exhaust Heat Sup. Fan Heat | | | -9 | -9 | 0 | | | OA Preheat | | | | 0 | | | Cooling | Hea | atina |
| Ret. Fan Heat | | | 0 | 0 | 0: | | | Additional | | | | ő | 0.00 | % OA | 1.7 | 1100 | 1.7 |
| Duct Heat Pkup | | | 0 | 0 | 0: | | | System Ple | | | | -277 | 3.83 | cfm/ft² | 5.65 | | 5.65 |
| Underfir Sup Ht F | kun | | U | ŏ | 0: | | | Underfir Si | | | | 0 | 0.00 | cfm/ton | 798.16 | | 0.00 |
| Supply Air Leaka | | | 0 | 0 | 0 | | | Supply Air | | | | 0 | | ft²/ton | 141.30 | | |
| зирріу Ан сеака | Je. | | U | U | | | | Supply All | Leakaye | | | U | 0.00 | Btu/hr-ft² | 84.93 | -2 | 0.51 |
| Grand Total ==> | | 18,235 | 459 | 20,113 | 100.00 | 17,635 | 100.00 | Grand Tota | / ==> | -5,703 | | -7,226 | 100.00 | No. People | 3 | -3 | 0.51 |
| | | | COOLING | COIL CELE | CTION | | | | | AREAS | | $\overline{}$ | ш | EATING COIL | CEL ECTIO | | = |
| | Total C | apacity | | COIL SELE | | DB/WB/HR | Long | DB/WB/HR | | Gross Total | Glass | | п | Capacity (| | Ent | |
| | ton | MBh | MBh | cfm | | °F gr/lb | | °F gr/lb | | GIOSS TOTAL | | (%) | | MBh | cfm | °F | |
| Main Cla | 1.7 | 20.1 | 18.2 | 1.338 | 75.5 62 | _ | 60.5 5 | _ | Floor | 237 | | | Main Htg | -7.2 | 1.338 | 68.8 | 74 |
| Aux Cla | 0.0 | 0.0 | 0.0 | 1,550 | | 0.0 | | 0.0 0.0 | Part | 355 | | | Aux Hta | 0.0 | 0 | 0.0 | 0 |
| Opt Vent | 0.0 | 0.0 | 0.0 | 0 | | 0.0 | | 0.0 0.0 | Int Door | 0 | | | Preheat | 0.0 | 0 | 0.0 | 0 |
| -, | | | | | | | | | ExFIr | ō | | | | | · | | |
| Total | 1.7 | 20.1 | | | | | | | Roof | 0 | 0 | | Humidif | 0.0 | 0 | 0.0 | 0 |
| | | | | | | | | | Wall | 217 | 129 | 60 | Opt Vent | 0.0 | 0 | 0.0 | 0. |
| | | | | | | | | | Ext Door | . 0 | 0 | 0 | Total | -7.2 | | | |

By Trane

N1 Area 03 Titular

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PEAK | | TEM | PERATURE | s |
|---------------------------|------------------------------|-----------------------|-------------------|---------------------|------------------------|---------------------|----------------|-----------|--------------------------|----------------------|-----------|---------------------|-------------------------|-------------------------|
| Pea | ked at Time: Outside Air: | Mo/Hr: OADB/WB/HR: | | 84 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | 1 | SADB Ra Plenum | Cooling 60.5 75.4 | Heating 74.7 69.4 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | Tot Se | | Return Ret/OA | 75.4 75.5 | 69.4 68.8 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu | /h (%) | Fn MtrTD | 0.0 | 0.0 |
| Envelope Loads | | | _ | | | | Envelope L | | | | | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | 0 0.00 | Fn Frict | 0.0 | 0.0 |
| Skylite Cond Roof Cond | 0 | ŏ | 0 | 0: | 0 | 0 | | | 0 | | 0 0.00 | | | |
| Glass Solar | 10.590 | 0 | 10.590 | 53 | 10.590 | 60 | | | 0 | | 0 0.00 | Δ | IRFLOWS | |
| Glass/Door Cond | | 0 | 51 | 23 | 10,590 | 00 | | | -348 | -3 | | | | |
| Wall Cond | 72 | 499 | 571 | 3 | 72 | 0 | | | -76 | -6 | | | Cooling | |
| Partition/Door | 1,111 | 400 | 1.111 | 6 | 1.111 | 6 | | | -5.232 | -5.2 | | Diffuser | 1,338 | 1,33 |
| Floor | 1,111 | | 1,111 | 0: | 1,110 | 0 | | DOOI | -5,252 | -5,2 | 0 0.00 | Terminal | 1.338 | 1,33 |
| Adjacent Floor | 0 | 0 | 0 | 0: | 0 | 0 | Adjacent | Eloor | 0 | | 0.00 | Main Fan | 1,338 | |
| Infiltration | 0 | U | ő | ő: | 0 | 0 | | | 0 | | 0.00 | Sec Fan | . 0 | |
| Sub Total ==> | 11.824 | 499 | 12.323 | 61: | 11.824 | 67 | Sub Tota | | -5.656 | -6.1 | | Nom Vent | 23 | |
| Sub lotal ==> | 11,024 | 499 | 12,323 | 01: | 11,024 | 07 | : Sub rota | | -5,050 | -0, 1 | 94 60.06 | | 23 | |
| | | | | | | | Internal Loa | rde | | | | AHU Vent | | |
| Internal Loads | | | | | | | | ius | | | | Infil | 0 | |
| Lights | 1,617 | 0 | 1,617 | 8 | 1,617 | 9 | | | 0 | | 0.00 | Min Stop/Rh | 0 | |
| People | 1,350 | 0 | 1,350 | 7 | 750 | 4 | | | 0 | | 0.00 | Return | 1,338 | |
| Misc | 3,413 | 0 | 3,413 | 17 | 3,413 | 19 | Misc | | 0 | | 0.00 | Exhaust | 23 | |
| Sub Total ==> | 6,380 | 0 | 6,380 | 32 | 5,780 | 33 | : Sub Tota | / ==> | 0 | | 0.00 | Rm Exh | 0 | |
| | | | | | | | | | | | | Auxiliary | 0 | |
| Ceiling Load | 31 | -31 | 0 | 0 | 31 | 0 | Ceiling Loa | d | -47 | | 0.00 | Leakage Dwn | 0 | |
| Ventilation Load | 0 | 0 | 1,419 | 7 | 0 | 0 | Ventilation | Load | 0 | -7 | 78 10.76 | Leakage Ups | 0 | |
| Adj Air Trans Hea | . 0 | | 0 | 0: | 0 | 0 | : Adj Air Tran | is Heat | 0 | | 0 0 | | | |
| Dehumid, Ov Sizii | na | | 0 | 0 | | | Ov/Undr Siz | zina | 0 | | 0.00 | | | |
| Ov/Undr Sizing | 0 | | 0 | 0 | 0 | 0 | Exhaust He | at | | | 13 -0.18 | ENGIN | NEERING C | KS |
| Exhaust Heat | • | -9 | -9 | ő: | | | OA Preheat | | | | 0.00 | LIVOII | | |
| Sup. Fan Heat | | | 0 | 0 | | | RA Preheat | Diff. | | | 0.00 | | Cooling | Heating |
| Ret. Fan Heat | | 0 | ō | 0: | | | Additional | Reheat | | | 0 0.00 | % OA | 1.7 | 1.7 |
| Duct Heat Pkup | | Ō | Ō | 0: | | | : System Ple | | | -2 | 77 3.83 | cfm/ft ² | 5.65 | 5.65 |
| Underfir Sup Ht P | kup | | 0 | 0: | | | Underfir Su | n Ht Pkup | | | 0.00 | cfm/ton | 798.16 | |
| Supply Air Leakag | | 0 | 0 | 0: | | | Supply Air | | | | 0.00 | ft²/ton | 141.30 | |
| ouppi) riii Louiiul | , . | • | | - : | | | - outploy | Louinago | | | 0.00 | Btu/hr-ft² | 84.93 | -30.51 |
| Grand Total ==> | 18,235 | 459 | 20,113 | 100.00 | 17,635 | 100.00 | Grand Tota | / ==> | -5,703 | -7,2 | 26 100.00 | No. People | 3 | 00.01 |
| | | COOLING C | | | | | | | AREAS | | Н | EATING COIL | | |
| | Total Capacity ton MBh | Sens Cap. Col MBh | il Airflow cfm | | r DB/WB/HR °F gr/lb | Leave °F | °F gr/lb | | Gross Total | Glass ft² (%) | | Capacity MBh | Coil Airflow cfm | Ent Ly |
| Main Clg | 1.7 20.1 | 18.2 | 1,338 | 75.5 62 | 2.2 81.3 | 60.5 5 | 6.9 78.9 | Floor | 237 | | Main Htg | -7.2 | 1,338 | 68.8 74 |
| Aux Cla | 0.0 0.0 | 0.0 | 1,330 | | 0.0 0.0 | | 0.0 0.0 | Part | 355 | | Aux Htg | 0.0 | 1,336 | 0.0 0 |
| | | | | | | | | | | | | | - | |
| Opt Vent | 0.0 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 |
| Total | 1.7 20.1 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | | | | | | | | Wall | 217 | 129 60 | Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | Ext Doo | r 0 | 0 0 | Total | -7.2 | | |

| | COO | LING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL P | EAK | | TEM | PERATURE | S | |
|-------------------------------------|-------------------------|-----------------|-----------------------|-------------------------------|---------------------|------------------------|---------------------|---------------------------|------------|--------------------------|--------------------------|--------|---------------------|----------------------|-------------------------|-----------|-----------------------|
| Peal | ked at Tin Outside A | | | Hr: 4 / 18 IR: 79 / 79 / 1 | 34 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating 32 | Design | | SADB Ra Plenum | Cooling 60.5 75.4 | | ating 74.7 69.4 |
| | | Space + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | | Percent Of Total | Return Ret/OA | 75.4 75.5 | | 69.4 68.8 |
| | 36113. | Btu/h | Btu/h | Btu/h | (%): | Sensible Btu/h | (%) | | | Space Sens Btu/h | | Btu/h | | Fn MtrTD | 0.0 | | 0.0 |
| nvelope Loads | | Blu/II | Blum | Btu/II | (70) | Dtu/II | (70) | Envelope | l nade | Btu/II | | Blum | (70) | Fn BldTD | 0.0 | | 0.0 |
| Skylite Solar | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite | | 0 | | 0 | 0.00 | Fn Frict | 0.0 | | 0.0 |
| Skylite Cond | | 0 | 0 | 0 | 0: | 0 | 0 | Skylite (| Cond | 0 | | 0 | 0.00 | | | | _ |
| Roof Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Roof Co | nd | 0 | | 0 | | | | | |
| Glass Solar | | 10,590 | 0 | 10,590 | 53 | 10,590 | 60 | Glass S | olar | 0 | | 0 | | A | IRFLOWS | | |
| Glass/Door Cond | | 51 | 0 | 51 | 0; | 51 | 0 | | oor Cond | -348 | | -348 | | | Cooling | He | eatin |
| Wall Cond | | 72 | 499 | 571 | 3: | 72 | 0 | | | -76 | | -604 | | Diffuser | 1,338 | | 1,33 |
| Partition/Door | | 1,111 | | 1,111 | 6: | 1,111 | 6 | Partition | /Door | -5,232 | | -5,232 | | | | | |
| Floor | | 0 | | 0 | 0 | 0 | 0 | | | 0 | | 0 | | Terminal Main Fan | 1,338 1,338 | | 1,33 |
| Adjacent Floor | | 0 | 0 | 0 | 0 : | 0 | 0 | Adjacer | | 0 | | 0 | | 1 | | | 1,33 |
| Infiltration | | | 100 | 0 | 0 | | 0 | Infiltration | | 0 | | 0 | | Sec Fan | 0 | | |
| Sub Total ==> | | 11,824 | 499 | 12,323 | 61 : | 11,824 | 67 | Sub Tot | a/ ==> | -5,656 | | -6,184 | 85.58 | Nom Vent | 23 | | 2 |
| | | | | | : | | | Internal Lo | odo | | | | | AHU Vent | 23 | | 2 |
| nternal Loads | | | | | | | | | oaus | | | | | Infil | 0 | | |
| Lights | | 1,617 | 0 | 1,617 | 8 | 1,617 | 9 | Lights | | 0 | | 0 | | MinStop/Rh | 0 | | |
| People | | 1,350 | 0 | 1,350 | 7 | 750 | 4 | | | 0 | | 0 | | Return | 1,338 | | 1,33 |
| Misc | | 3,413 | 0 | 3,413 | 17 ; | 3,413 | 19 | | | 0 | | 0 | | Exhaust | 23 | | 2 |
| Sub Total ==> | | 6,380 | 0 | 6,380 | 32 | 5,780 | 33 | Sub Tot | a/ ==> | 0 | | 0 | 0.00 | Rm Exh | 0 | | |
| | | | | | | | | 0-1111 | | -47 | | 0 | 0.00 | Auxiliary | 0 | | |
| Ceiling Load Tentilation Load | | 31 | -31 | 0 | 0 | 31 | 0 | Ceiling Lo Ventilation | | -47 | | -778 | | Leakage Dwn | 0 | | |
| Adi Air Trans Hea | | 0 | 0 | 1,419 | 7: | 0 | | Adi Air Tra | | 0 | | -//0 | | Leakage Ups | U | | |
| , | | 0 | | 0 | 0 | 0 | 0 | | | 0 | | 0 | | | | | _ |
| Dehumid. Ov Sizii Dv/Undr Sizing | ıg | | | 0 | 0 | | | Ov/Undr S Exhaust H | | U | | 13 | | | | | |
| Exhaust Heat | | 0 | -9 | -9 | 0: | 0 | 0 | OA Prehea | | | | 13 | | ENGIN | NEERING C | KS | |
| Sup. Fan Heat | | | -9 | -9 | 0: | | | RA Prehea | | | | 0 | 0.00 | | Cooling | Hea | atino |
| Ret. Fan Heat | | | 0 | 0 | 0: | | | Additional | | | | ő | | % OA | 1.7 | | 1. |
| oct Heat Pkup | | | ő | ő | 0: | | | | enum Heat | | | -277 | 3.83 | cfm/ft² | 5.65 | | 5.65 |
| Inderfir Sup Ht P | kup | | - | ŏ | 0: | | | | up Ht Pkup | | | 0 | 0.00 | cfm/ton | 798.16 | | |
| Supply Air Leakag | | | 0 | 0 | 0: | | | Supply Air | | | | 0 | 0.00 | ft²/ton | 141.30 | | |
| | - | | | | - | | | | | | | | | Btu/hr-ft² | 84.93 | -30 | 0.51 |
| Grand Total ==> | | 18,235 | 459 | 20,113 | 100.00 | 17,635 | 100.00 | Grand Tot | al ==> | -5,703 | | -7,226 | 100.00 | No. People | 3 | | |
| | | | COOLING | | спои | | | | | AREAS | 3 | | н | EATING COIL | SELECTIO | N | _ |
| | Total Ca ton | pacity MBh | Sens Cap. (MBh | Coil Airflow cfm | | r DB/WB/HR °F gr/lb | | DB/WB/HF F gr/lb | 1 | Gross Total | Glass ft ² | (%) | | Capacity MBh | Coil Airflow cfm | Ent °F | |
| Main Clg | 1.7 | 20.1 | 18.2 | 1,338 | 75.5 62 | 2.2 81.3 | 60.5 5 | 6.9 78.9 | Floor | 237 | | | Main Htg | -7.2 | 1,338 | 68.8 | 7 |
| lux Clg | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | Part | 355 | | | Aux Htg | 0.0 | 0 | 0.0 | |
| opt Vent | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | | 0.0 0.0 | Int Door | 0 | | | Preheat | 0.0 | 0 | 0.0 | |
| | | 3.0 | 0.0 | Ü | 2.0 | 0.0 | 5.0 | 0.0 | ExFir | ő | | | | 0.0 | Ü | 0 | |
| otal | 1.7 | 20.1 | | | | | | | Roof | ő | 0 | 0 | Humidif | 0.0 | 0 | 0.0 | |
| | | | | | | | | | Wall | 217 | 129 | | Opt Vent | 0.0 | ō | 0.0 | |
| | | | | | | | | | Ext Door | . 0 | 0 | | Total | -7.2 | | | |

By Trane

N1 Area 05 Titular

20.2

Total

| | COOLING | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | TEM | PERATURE | S |
|----------------------------------|-----------------------------|-----------------------|--------------------------------|------------------|------------------------|---------------------|----------------------|---------|--------------------------|-----------------------|--------------|-------------------|-------------------------|-------------------------|
| | ed at Time: Outside Air: | | /Hr: 4 / 18 HR: 79 / 79 / 1 | 84 | Mo/Hr: OADB: | | | | Mo/Hr: I OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 60.5 75.4 | Heating 74.7 69.4 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | Coil Peak Tot Sens | | Return Ret/OA | 75.4 75.5 | 69.4 68.8 |
| | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | 0.0 |
| Envelope Loads | | | | | | | Envelope Le | | | | | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar | 0 | 0 | 0 | 0 | 0 | 0 | Skylite So | | 0 | 0 | 0.00 | Fn Frict | 0.0 | 0.0 |
| Skylite Cond | 0 | 0 | 0 | 0 | 0 | 0 | Skylite Co | | 0 | 0 | 0.00 | | | |
| Roof Cond | 0 10.649 | 0 | 0 | 0 53 | 0 | 0 60 | Roof Con | | 0 | 0 | 0.00 | | IRFLOWS | |
| Glass Solar Glass/Door Cond | 10,649 | 0 | 10,649 51 | 0 | 10,649 51 | 00 | Glass Sol | | -350 | -350 | 0.00 4.85 | ^ | | |
| Wall Cond | 67 | 499 | 566 | 3 | 67 | 0 | | | -71 | -599 | 8.29 | | Cooling | |
| Partition/Door | 1,111 | 400 | 1,111 | 6 | 1.111 | 6 | Partition/I | | -5.232 | -5.232 | 72.40 | Diffuser | 1,342 | 1,34 |
| Floor | 0 | | 0 | 0 | 0 | ő | Floor | | 0,202 | 0,202 | 0.00 | Terminal | 1,342 | |
| Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | Floor | 0 | 0 | 0.00 | Main Fan | 1,342 | 1,34 |
| Infiltration | 0 | | 0 | 0 | 0 | 0 | Infiltration | | 0 | 0 | 0.00 | Sec Fan | C |) (|
| Sub Total ==> | 11,879 | 499 | 12,378 | 61: | 11,879 | 67 | Sub Total | ==> | -5,653 | -6,181 | 85.54 | Nom Vent | 23 | 2 |
| | | | | | | | | | | | | AHU Vent | 23 | 2 |
| nternal Loads | | | | | | | Internal Loa | ds | | | | Infil | C | |
| Lights | 1,617 | 0 | 1,617 | 8 | 1,617 | 9 | Lights | | 0 | 0 | 0.00 | Min Stop/Rh | C | |
| People | 1,350 | 0 | 1,350 | 7 | | 4 | | | 0 | 0 | 0.00 | Return | 1,342 | |
| Misc | 3,413 | 0 | 3,413 | 17 | 3,413 | 19 | Misc | | 0 | 0 | 0.00 | Exhaust | 23 | |
| Sub Total ==> | 6,380 | 0 | 6,380 | 32 | 5,780 | 33 | Sub Total | ==> | 0 | 0 | 0.00 | Rm Exh | 0 | |
| Coiling Load | 24 | 24 | | | 24 | | Cailing Lan | | -47 | 0 | 0.00 | Auxiliary | 0 | |
| Ceiling Load Ventilation Load | 31 0 | -31 0 | 0 1.419 | 0 7 | 31 0 | | Ceiling Load | | -47 | -778 | 10.77 | Leakage Dwn | | |
| Adi Air Trans Heat | 0 | U | 1,419 | 0 | 0 | | Adj Air Tran | | 0 | -778 | 0.77 | Leakage Ups | | ' |
| Dehumid. Ov Sizing | | | 0 | 0 | U | U | Ov/Undr Siz | | 0 | 0 | 0.00 | | | |
| Dv/Undr Sizing | , , | | 0 | 0 | 0 | 0 | Exhaust He | | U | 13 | -0.18 | ENGIN | NEERING C | V C |
| Exhaust Heat | U | -9 | -9 | ő: | 0 | U | OA Preheat | | | 0 | 0.00 | ENGI | NEEKING C | No |
| Sup. Fan Heat | | | 0 | 0 | | | RA Preheat | | | Ō | 0.00 | | Cooling | Heating |
| Ret. Fan Heat | | 0 | 0 | 0: | | | Additional F | | | 0 | 0.00 | % OA | 1.7 | 1.7 |
| Duct Heat Pkup | | 0 | 0 | 0 | | | System Plea | | | -279 | 3.87 | cfm/ft² | 5.67 | 5.67 |
| Underfir Sup Ht Pki | | | 0 | 0 | | | Underfir Su | | | 0 | 0.00 | cfm/ton | 798.76 | |
| Supply Air Leakage | 9 | 0 | 0 | 0 | | | Supply Air I | _eakage | | 0 | 0.00 | ft²/ton | 140.91 | |
| Grand Total ==> | 18,290 | 459 | 20,168 | 100.00 | 17,690 | 100.00 | Grand Total | ==> | -5,700 | -7,225 | 100.00 | No. People | 85.16 3 | -30.51 |
| | | COOLING | COIL SELE | CTION | | | | | AREAS | | н | EATING COIL | SELECTIO | N N |
| | Total Capacity ton MBh | | Coil Airflow cfm | Ente | r DB/WB/HR °F gr/lb | Leave °F | DB/WB/HR °F gr/lb | | Gross Total | Glass ft² (%) | | | Coil Airflow cfm | Ent L |
| Main Cla | 1.7 20.2 | 18.2 | 1.342 | 75.5 62 | 2.2 81.3 | 60.5 5 | 6.9 78.9 | Floor | 237 | | Main Hta | -7.2 | 1.342 | 68.8 74 |
| | 0.0 0.0 | 0.0 | 0 | | | | 0.0 | Part | 355 | | Aux Htg | 0.0 | 0 | 0.0 |
| | 0.0 0.0 | 0.0 | 0 | 0.0 | 0.0 0.0 | 0.0 | 0.0 0.0 | Int Doo | r 0 | | Preheat | 0.0 | 0 | 0.0 |
| | | 0.0 | | 5.0 | | 3.0 | | EvElr | . ň | l i | | 0.0 | | |

Room Checksums By Trane

0 130 0

0 0.0 0 0.0

| | COC | LING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING (| COIL PEAK | | TEM | PERATURE | S | |
|------------------------------------|----------------------|----------------|--------------------|------------------------|----------|---------------------|----------|---------------------------|-----------|-------------|------------------------------|----------|--------------------------|-------------------------|-----------|----------------------|
| Pea | ked at Ti Outside | | Mo/H OADB/WB/HF | lr: 5/17 R: 84/83/2 | 16 | Mo/Hr: OADB: | | | | | Heating Design 32 | | SADB Ra Plenum | Cooling 58.8 75.4 | | ting 73.2 69.4 |
| | | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil Peal | Percent | Return | 75.4 | | 69.4 |
| | Sens | s. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | | Of Total | Ret/OA | 75.7 | | 67.9 |
| | | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/l | 1 (%) | Fn MtrTD | 0.0 | | 0.0 |
| Envelope Loads Skylite Solar | | 0 | 0 | 0 | 0 | 0 | 0 | Envelope Le Skylite Se | | 0 | | 0.00 | Fn BldTD Fn Frict | 0.0 | | 0.0 |
| Skylite Cond | | 0 | 0 | 0 | 0: | 0 | 0 | Skylite C | | 0 | | | Fn Frict | 0.0 | | U.U |
| Roof Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Roof Con | | 0 | | | | | | _ |
| Glass Solar | | 4.599 | 0 | 4.599 | 33 | 5.292 | 48 | Glass So | | 0 | | | AI | RFLOWS | | |
| Glass/Door Cond | | 44 | ŏ | 44 | 0 | 26 | 0 | Glass/Do | | -174 | -17 | | '" | | | -41 |
| Wall Cond | | 26 | 180 | 206 | 1 | 36 | 0 | Wall Con | | -38 | -30 | 8.23 | | Cooling | | atin |
| Partition/Door | | 527 | | 527 | 4: | 421 | 4 | Partition/ | Door | -1,981 | -1,98 | 54.02 | Diffuser | 755 | | 75 |
| Floor | | 0 | | 0 | 0 | 0 | 0 | Floor | | 0 | | | Terminal | 755 | | 75 |
| Adjacent Floor | | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | | 0 | | | Main Fan | 755 | | 75 |
| Infiltration | | 0 | | 0 | 0 | 0 | 0 ; | Infiltration | | 0 | | | Sec Fan | 0 | | |
| Sub Total ==> | | 5,196 | 180 | 5,376 | 38 | 5,774 | 52 | Sub Tota | /==> | -2,193 | -2,45 | 66.99 | Nom Vent | 30 | | 3 |
| | | | | | | | | | | | | | AHU Vent | 30 | | 3 |
| nternal Loads | | | | | | | | Internal Loa | ids | | | | Infil | 0 | | |
| Lights | | 917 | 0 | 917 | 7 | 917 | 8 | Lights | | 0 | | | Min Stop/Rh | 0 | | |
| People | | 1,800 | 0 | 1,800 | 13 | 1,000 | 9 | People | | 0 | | | Return | 755 | | 75 |
| Misc | | 3,413 | 0 | 3,413 | 24 | 3,413 | 31 | Misc | | 0 | | 0.00 | Exhaust | 30 | | 3 |
| Sub Total ==> | | 6,130 | 0 | 6,130 | 44 | 5,330 | 48 | Sub Total | ==> | 0 | | 0.00 | Rm Exh | 0 | | |
| Ceiling Load | | | 40 | | | | | Ceiling Loa | | -27 | | 0.00 | Auxiliary Leakage Dwn | 0 | | |
| ventilation Load | | 16 0 | -16 0 | 0 2.573 | 18 | 18 0 | 0 | Ventilation | | -27 | -1.03 | | Leakage Ups | 0 | | |
| Adi Air Trans Hea | | 0 | U | -, | 18; | 0 | υ, | Adj Air Tran | | 0 | -1,03 | | Leakage Ups | u | | |
| Dehumid. Ov Sizi | | 0 | | 0 | | 0 | 0 ; | Ov/Undr Siz | | 0 | | - | | | | _ |
| Denumia. Ov Sizi Dv/Undr Sizina | ıg | | | 0 | 0 | 0 | | Exhaust He | | U | 1 | | FNOI | IEEDINIO O | | |
| Exhaust Heat | | 0 | -10 | -10 | 0; | U | U | OA Preheat | | | ' | | ENGIN | IEERING C | KS. | |
| Sup. Fan Heat | | | -10 | 0 | 0: | | | RA Preheat | | | | | | Cooling | Hea | iting |
| Ret. Fan Heat | | | 0 | ő | 0: | | | Additional I | | | | | % OA | 4.0 | | 4. |
| Ouct Heat Pkup | | | 0 | 0 | 0: | | | System Ple | num Heat | | -19 | 5.20 | cfm/ft² | 5.62 | | 5.62 |
| Inderfir Sup Ht P | kup | | | 0 | 0 | | | Underfir Su | p Ht Pkup | | | 0.00 | cfm/ton | 644.12 | | |
| Supply Air Leakag | je | | 0 | 0 | 0 | | | Supply Air | Leakage | | | 0.00 | ft²/ton | 114.63 | | |
| Grand Total ==> | | 11,343 | 153 | 14,069 | 100.00 | 11,122 | 100.00 | Grand Tota | / ==> | -2,220 | -3,668 | 100.00 | Btu/hr-ft² No. People | 104.68 4 | -2 | 7.29 |
| | | | COOLING | COIL SELE | CTION | | | | | AREAS | | н | EATING COIL | SELECTIO | N | = |
| | Total C ton | apacity MBh | | oil Airflow cfm | Enter | DB/WB/HR F gr/lb | | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | | Coil Airflow | Ent °F | ι |
| Main Clg | 1.2 | 14.1 | 10.9 | 755 | 75.7 62. | 9 84.9 | 58.8 56 | 6.4 79.4 | Floor | 134 | | Main Htg | -3.7 | 755 | 67.9 | 7 |
| ux Clg | 0.0 | 0.0 | 0.0 | 0 | 0.0 0. | | | 0.0 | Part | 134 | | Aux Htg | 0.0 | 0 | 0.0 | |
| pt Vent | 0.0 | 0.0 | 0.0 | 0 | 0.0 0. | 0.0 | 0.0 | 0.0 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 | |
| | | | | | | | | | ExFIr | 0 | | | | | | |
| otal | 1.2 | 14.1 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 | |
| | | | | | | | | | Wall | 108 | 65 60 | Opt Vent | 0.0 | 0 | 0.0 | |
| | | | | | | | | | Ext Door | 0 | 0 0 | Total | -3.7 | | | |

N1 Area 07 Papeleria

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | TEM | PERATURE | s |
|--------------------------------|--|-------------------|------------------|--------------|---------------------|----------------|--------------------------|---------------------------|---------------|------------------------|--------------------|---------------------|---------------|------------------|
| Pea | ked at Time: | | D/Hr: 4 / 18 | | Mo/Hr: | | | | | Heating Design | | | Cooling | Heating |
| | Outside Air: | OADB/WB. | /HR: 79 / 79 / 1 | 84 | OADB: | 79 | | | OADB: | 32 | | SADB | 61.1 | 73.8 |
| | | | | : | | | | | | | | Ra Plenum | 75.4 | 69.4 |
| | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | | Percent | Return | 75.4 | 69.4 |
| | Sens. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | Tot Sens | Of Total | Ret/OA | 75.5 | 68.9 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/f | 1 (%) | Fn MtrTD | 0.0 | 0.0 |
| Envelope Loads | | | | | | | Envelope L | | | | | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar | 0 | 0 | 0 | 0 | 0 | 0 | Skylite S | | 0 | (| | Fn Frict | 0.0 | 0.0 |
| Skylite Cond | 0 | 0 | 0 | 0 | 0 | 0 | Skylite C | | 0 | (| | | | |
| Roof Cond | 0 | 0 | 0 | 0 | 0 | 0 | Roof Cor | | 0 | (| | | IDEL OWIG | |
| Glass Solar | 5,292 | 0 | 5,292 | 58 | 5,292 | 65 | Glass So | | 0 | | | A | IRFLOWS | |
| Glass/Door Cond | | 0 249 | 26 | 0: | 26 36 | 0 : | Glass/Do | | -174 | -174 | | | Cooling | Heatin |
| Wall Cond Partition/Door | 36 421 | 249 | 285 421 | 3: | 36 421 | 0 : 5 | Wall Con Partition/ | | -38 | -302 -1.981 | | Diffuser | 643 | 64 |
| Floor | 421 | | 421 | 0 | 421 | 0 | Floor | Door | -1,981 0 | -1,98 | | Terminal | 643 | 64 |
| | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | Č | | Main Fan | 643 | |
| Adjacent Floor Infiltration | 0 | U | 0 | 0 | 0 | 0 | Adjacent Infiltration | | 0 | | | Sec Fan | 0.0 | |
| | | 249 | | 67 | | 71 | Sub Tota | | -2.193 | -2.45 | | | 0 | |
| Sub Total ==> | 5,774 | 249 | 6,023 | 67 | 5,774 | /1 | SUD TOTA | 41 ==> | -2,193 | -2,45 | 80.54 | Nom Vent | 8 | |
| | | | | : | | | Internal Lo | ade | | | | AHU Vent | 8 | |
| Internal Loads | | | | | | | | aus | | | | Infil | 0 | |
| Lights | 917 | 0 | 917 | 10 | 917 | 11 | Lights | | 0 | (| | Min Stop/Rh | 0 | |
| People | 450 | 0 | 450 | 5 | 250 | 3 | People | | 0 | (| | Return | 643 | |
| Misc | 1,195 | 0 | 1,195 | 13 | 1,195 | 15 | Misc | | 0 | (| 0.00 | Exhaust | 8 | |
| Sub Total ==> | 2,562 | 0 | 2,562 | 28 | 2,362 | 29 | Sub Tota | a/ ==> | 0 | (| 0.00 | Rm Exh Auxiliary | 0 | |
| Ceiling Load | 18 | -18 | 0 | 0 | 18 | 0 | Ceiling Loa | he | -27 | (| 0.00 | Leakage Dwn | 0 | |
| Ventilation Load | 0 | -10 | 473 | 5 | 0 | | Ventilation | | 0 | -259 | | Leakage Ups | 0 | |
| Adi Air Trans Hea | | U | 0 | 0 | 0 | | Adi Air Trai | | 0 | | | Leakage Ops | Ü | |
| Dehumid, Ov Sizi | | | 0 | 0 | U | U | Ov/Undr Si | | 0 | ì | - | | | |
| Ov/Undr Sizing | | | 0 | 0 | 0 | | Exhaust He | | U | | | FNION | NEERING C | |
| Exhaust Heat | 0 | -3 | -3 | ő: | U | U | OA Preheat | | | i | | ENGIR | NEERING C | KS |
| Sup. Fan Heat | | -5 | 0 | 0 | | | RA Preheat | | | ì | | | Cooling | Heating |
| Ret. Fan Heat | | 0 | 0 | 0 | | | Additional | | | ì | | % OA | 1.2 | 1.2 |
| Duct Heat Pkup | | ő | ő | 0 | | | System Ple | | | -12 | | cfm/ft² | 4.79 | 4.79 |
| Underfir Sup Ht P | kun | | ŏ | 0 | | | Underfir Su | | | (| 0.00 | cfm/ton | 852.23 | |
| Supply Air Leakage | | 0 | 0 | 0: | | | Supply Air | | | i | | ft²/ton | 178.09 | |
| ouppiy rai counci | g-c | | | ٠. | | | ouppiy Aii | Loundge | | ` | 0.00 | Btu/hr-ft² | 67.38 | -21.13 |
| Grand Total ==> | 8,354 | 229 | 9,055 | 100.00 | 8,154 | 100.00 | Grand Tota | a/ ==> | -2,220 | -2,839 | 100.00 | No. People | 1 | 21.10 |
| | | COOLING | 3 COIL SELE | CTION | | | | | AREAS | | ш | EATING COIL | SELECTIO | NI . |
| | | | Coil Airflow | | r DB/WB/HR | | DB/WB/HR | | Gross Total | Glass | | Capacity | Coil Airflow | Ent L |
| | Total Capacity ton MBh | Sens Cap. MBh | cfm | | °F gr/lb | °F | °F gr/lb | H | | ft² (%) | | MBh | cfm | F |
| Main Clo | ton MBh | MBh | cfm | °F | g | | | Floor | 134 | π² (%) | Main Htg | | | |
| Main Clg | ton MBh 0.8 9.1 | MBh 8.4 | | °F 75.5 6 | 2.1 80.7 | 61.1 57 | 7.1 79.1 | Floor | 134 134 | π² (%) | Main Htg | -2.8 | 643 | 68.9 73 |
| Aux Clg | ton MBh 0.8 9.1 0.0 0.0 | MBh 8.4 0.0 | cfm 643 0 | °F 75.5 6 | 2.1 80.7 0.0 0.0 | 61.1 57 0.0 | 7.1 79.1 0.0 0.0 | Part | 134 | π² (%) | Aux Htg | -2.8 0.0 | 643 0 | 68.9 73 0.0 (|
| | ton MBh 0.8 9.1 | MBh 8.4 | cfm 643 | °F 75.5 6 | 2.1 80.7 | 61.1 57 0.0 | 7.1 79.1 | Part Int Door | 134 | π² (%) | | -2.8 | 643 | 68.9 73 |
| Aux Clg Opt Vent | ton MBh 0.8 9.1 0.0 0.0 0.0 0.0 | MBh 8.4 0.0 | cfm 643 0 | °F 75.5 6 | 2.1 80.7 0.0 0.0 | 61.1 57 0.0 | 7.1 79.1 0.0 0.0 | Part Int Door ExFIr | 134 0 0 | (14) | Aux Htg Preheat | -2.8 0.0 0.0 | 643 0 0 | 68.9 73 0.0 (|
| Aux Clg | ton MBh 0.8 9.1 0.0 0.0 | MBh 8.4 0.0 | cfm 643 0 | °F 75.5 6 | 2.1 80.7 0.0 0.0 | 61.1 57 0.0 | 7.1 79.1 0.0 0.0 | Part Int Door | 134 | π² (%) 0 0 65 60 | Aux Htg | -2.8 0.0 | 643 0 | 68.9 73 0.0 (|

| | COOL | LING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL P | EAK | | TEM | PERATURE | S |
|--------------------------------|-------------------------|-----------------|-----------------------|--------------------------------|---------------------|-------------------|---------------------|--------------------------|----------|--------------------------|---------------|-----------------------|----------|--------------------------|-------------------------|----------------|
| | ced at Tim Outside A | | | Hr: 11 / 14 HR: 75 / 75 / 1 | 64 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating 32 | Design | | SADB Ra Plenum | Cooling 59.0 75.1 | Heat 7 6 |
| | | Space + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | Coil Peak Tot Sens | | Return Ret/OA | 75.1 75.1 | 6 |
| | | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | | Btu/h | (%) | Fn MtrTD | 0.0 | |
| nvelope Loads Skylite Solar | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite So | | 0 | | 0 | 0.00 | Fn BldTD Fn Frict | 0.0 | |
| Skylite Cond | | 0 | 0 | 0 | 0: | 0 | 0 | Skylite Co | | 0 | | 0 | 0.00 | FILFICE | 0.0 | |
| Roof Cond | | ő | ő | ŏ | ő: | ŏ | o: | Roof Con | | 0 | | ő | 0.00 | | | |
| Glass Solar | | 12,439 | 0 | 12,439 | 34 | 13,349 | 46 | Glass Sol | ar | 0 | | 0 | 0.00 | A | IRFLOWS | |
| Glass/Door Cond | | -25 | 0 | -25 | 0 : | -84 | 0 : | Glass/Do | | -783 | | -783 | 5.66 | | Cooling | Hea |
| Wall Cond | | 483 | 942 | 1,425 | 4: | 403 | 1: | Wall Con- | | -790 | | -2,310 | 16.68 | Diffuser | 1,989 | |
| Partition/Door | | -1,296 | | -1,296 | -4: | -1,901 | -7 | Partition/I | Door | -7,984 | | -7,984 | 57.64 | Terminal | 1,989 | |
| Floor | | 0 | | 0 | 0 | 0 | 0 : | Floor | F1 | 0 | | 0 | 0.00 | Main Fan | 1,989 | |
| Adjacent Floor Infiltration | | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent Infiltration | | 0 | | 0 | 0.00 | Sec Fan | 1,000 | |
| Sub Total ==> | | 11.602 | 942 | 12,544 | 34 | 11,767 | 41 | Sub Total | | -9.557 | | -11,077 | 79.97 | Nom Vent | 90 | |
| Sub Total> | | 11,002 | 542 | 12,544 | 34 | 11,707 | 71 | ODD TOTAL | | -0,007 | | -11,077 | 10.01 | AHU Vent | 90 | |
| nternal Loads | | | | | | | | Internal Loa | ds | | | | | Infil | 90 | |
| Lights | | 3.697 | 0 | 3.697 | 10 | 3.697 | 13 | Lights | | 0 | | 0 | 0.00 | Min Stop/Rh | 0 | |
| People | | 5,400 | 0 | 5,400 | 15 | 3,000 | 10 | People | | 0 | | 0 | 0.00 | Return | 1.989 | |
| Misc | | 10,580 | 0 | 10,580 | 29 | 10,580 | 36 | Misc | | 0 | | 0 | 0.00 | Exhaust | 90 | |
| Sub Total ==> | | 19,677 | 0 | 19,677 | 54 | 17,277 | 59 | Sub Total | ==> | 0 | | 0 | 0.00 | Rm Exh | 0 | |
| ailian Land | | 40 | 40 | 0 | 0 | | 0 | Ceiling Load | | -107 | | 0 | 0.00 | Auxiliary Leakage Dwn | 0 | |
| eiling Load entilation Load | | 10 0 | -10 0 | 4.401 | 12 | -2 0 | 0 | Ventilation I | | -107 | | -3.111 | 22.46 | Leakage Ups | 0 | |
| di Air Trans Heat | | 0 | U | 4,401 | 0: | 0 | | Adj Air Tran | | 0 | | -5,111 | 0 | Leakage Ups | U | , |
| ehumid. Ov Sizir | | U | | 0 | 0 | U | | Ov/Undr Siz | | 0 | | 0 | 0.00 | | | |
| ov/Undr Sizina | .A | 0 | | 0 | 0: | 0 | 0 | Exhaust He | | 0 | | 51 | -0.37 | ENGIN | NEERING C | v c |
| xhaust Heat | | U | -5 | -5 | ő: | | | OA Preheat | | | | 0 | 0.00 | LINGII | | |
| Sup. Fan Heat | | | | 0 | 0: | | | RA Preheat | Diff. | | | 0 | 0.00 | | Cooling | Heat |
| Ret. Fan Heat | | | 0 | 0 | 0: | | | Additional F | | | | 0 | 0.00 | % OA | 4.5 | |
| Ouct Heat Pkup | | | 0 | 0 | 0: | | | System Plei | | | | 286 | -2.07 | cfm/ft² | 3.67 | 3 |
| Inderfir Sup Ht Pi | | | | 0 | 0 | | | Underfir Su | | | | 0 | 0.00 | cfm/ton | 651.69 | |
| Supply Air Leakag | е | | 0 | 0 | 0 | | | Supply Air I | .eakage | | | 0 | 0.00 | ft²/ton Btu/hr-ft² | 177.48 67.61 | -25 |
| Grand Total ==> | ; | 31,288 | 928 | 36,617 | 100.00 | 29,042 | 100.00 | Grand Total | ==> | -9,664 | | -13,851 | 100.00 | No. People | 12 | -25 |
| | | | COOLING | COIL SELE | стом | | | | | AREAS | S | | н | EATING COIL | SELECTIO | N |
| | Total Ca ton | pacity MBh | Sens Cap. MBh | Coil Airflow cfm | | DB/WB/HR gr/lb | | DB/WB/HR °F gr/lb | | Gross Total | Glass ft² | (%) | | Capacity MBh | Coil Airflow cfm | Ent °F |
| ain Clg | 3.1 | 36.6 | 29.9 | 1,989 | | 4 83.4 | 59.0 55 | .9 77.0 | Floor | 542 | | () | Main Htg | -13.9 | | 67.7 |
| ux Clg | 0.0 | 0.0 | 0.0 | | 0.0 0. | 0.0 | 0.0 | 0.0 | Part | 542 | | - 1 | Aux Htg | 0.0 | 0 | 0.0 |
| pt Vent | 0.0 | 0.0 | 0.0 | C | 0.0 0. | 0.0 | 0.0 | 0.0 | Int Door | . 0 | | | Preheat | 0.0 | 0 | 0.0 |
| otal | 3.1 | 36.6 | | | | | | | Roof | 0 | 0 | 0 | Humidif | 0.0 | 0 | 0.0 |
| , cor | J. 1 | 50.0 | | | | | | | Wall | 624 | 291 | | Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | | | | 0 | 0 | | -13.9 | | |

By Trane

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING (| COIL PEAK | | TEM | PERATURE | S |
|-------------------------------|-------------------------------|-----------------------|-------------------------------|---------------------|-------------------|---------------------|----------------|----------|--------------------------|-----------------------|---------------------|-------------------------------|----------------------|----------------------|
| Pe | aked at Time: Outside Air: | | Hr: 5 / 16 HR: 86 / 85 / 2 | 31 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB | Cooling 57.4 | Heating 81.2 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | Coil Peak Tot Sens | Percent Of Total | Ra Plenum Return Ret/OA | 75.3 75.3 76.0 | 69.4 69.4 67.1 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | 0.0 |
| Envelope Loads | | | | | | | Envelope L | | | | 0.00 | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar Skylite Cond | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | 0 | | Fn Frict | 0.0 | 0.0 |
| Roof Cond | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | 0 | | | | |
| Glass Solar | 0 | 0 | 0 | 0 | 0 | ő | | | 0 | 0 | | Δ | IRFLOWS | |
| Glass/Door Cor | | 0 | 0 | 0: | 0 | ő | | | 0 | Ö | | _ ^ | | |
| Wall Cond | 0 | ő | ő | 0: | ő | 0 | | | Ö | Ö | | | Cooling | Heatir |
| Partition/Door | 6,168 | | 6.168 | 11 | 6.653 | 17 | | | -25,006 | -25,006 | | Diffuser | 2,493 | 2,49 |
| Floor | 0 | | 0 | 0: | 0 | 0 | Floor | | 0 | 0 | | Terminal | 2,493 | |
| Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0.00 | Main Fan | 2,493 | 2,49 |
| Infiltration | 0 | | 0 | 0 | 0 | 0 | | | 0 | 0 | | Sec Fan | 0 | |
| Sub Total ==> | 6,168 | 0 | 6,168 | 11: | 6,653 | 17 | ; Sub Tota | ==> | -25,006 | -25,006 | 78.31 | Nom Vent | 150 | 15 |
| | | | | | | | | | | | | AHU Vent | 150 | 15 |
| Internal Loads | | | | | | | Internal Loa | ids | | | | Infil | 0 | |
| Lights | 14.297 | 0 | 14.297 | 25 | 14.297 | 36 | Lights | | 0 | 0 | 0.00 | Min Stop/Rh | 0 | |
| People | 9,000 | 0 | 9,000 | 16 | 5,000 | 13 | | | 0 | Ō | 0.00 | Return | 2,493 | |
| Misc | 13,652 | 0 | 13,652 | 24 | 13,652 | 34 | Misc | | 0 | 0 | 0.00 | Exhaust | 150 | 15 |
| Sub Total ==> | 36,949 | 0 | 36,949 | 64 | 32,949 | 83 | Sub Tota | / ==> | 0 | 0 | 0.00 | Rm Exh | 0 | |
| 000 1010 | 00,010 | | 00,010 | • : | 02,010 | | | | | | 0.00 | Auxiliary | 0 | |
| Ceiling Load | 210 | -210 | 0 | 0 | 254 | 1 | Ceiling Loa | | -413 | 0 | | Leakage Dwn | 0 | |
| Ventilation Load | 0 | 0 | 14,434 | 25 | 0 | 0 | Ventilation | Load | 0 | -5,186 | | Leakage Ups | 0 | |
| Adj Air Trans He | at 0 | | 0 | 0: | 0 | 0 | : Adj Air Trar | ıs Heat | 0 | 0 | 0 | | | |
| Dehumid. Ov Siz | ing | | 0 | 0 | | | Ov/Undr Siz | | 0 | 0 | | | | |
| Ov/Undr Sizing | 0 | | 0 | 0: | 0 | 0 | Exhaust He | | | 85 | | ENGI | NEERING CI | KS |
| Exhaust Heat | | -43 | -43 | 0 : | | | OA Preheat | | | 0 | | | | |
| Sup. Fan Heat | | | 0 | 0: | | | RA Preheat | | | 0 | | % OA | Cooling | Heating |
| Ret. Fan Heat | | 0 | 0 | 0: | | | Additional | | | -1.826 | | | 6.0 1.19 | 6.0 1.19 |
| Duct Heat Pkup | | 0 | 0 | 0: | | | System Ple | | | | | cfm/ft² | | 1.18 |
| Underfir Sup Ht | | | 0 | 0: | | | Underfir Su | | | 0 | | cfm/ton | 520.28 | |
| Supply Air Leaka | ige | 0 | 0 | 0 : | | | Supply Air | Leakage | | U | 0.00 | ft²/ton | 437.04 27.46 | -15.25 |
| Grand Total ==> | 43,327 | -254 | 57,508 | 100.00 | 39,856 | 100.00 | Grand Tota | / ==> | -25,419 | -31,932 | 100.00 | Btu/hr·ft² No. People | 27.46 | -15.20 |
| | | COOLING | COIL SELE | стом | | | | | AREAS | | н | EATING COIL | SELECTIO | N |
| | Total Capacity | | Coil Airflow | | r DB/WB/HR | | e DB/WB/HR | | Gross Total | Glass | | | Coil Airflow | Ent L |
| | ton MBh | MBh | cfm | °F | °F gr/lb | °F | °F gr/lb | 1 | | ft² (%) | | MBh | cfm | °F |
| Main Clg | 4.8 57.5 | 40.6 | 2.493 | 76.0 63 | 3.7 88.6 | 57.4 5 | 5.6 78.0 | Floor | 2.094 | | Main Htg | -31.9 | 2.493 | 67.1 8 |
| Aux Clg | 0.0 0.0 | 0.0 | 2,493 | | 0.0 0.0 | | 0.0 0.0 | Part | 1.696 | | Aux Htg | 0.0 | | 0.0 |
| Opt Vent | 0.0 0.0 | 0.0 | 0 | | 0.0 0.0 | | 0.0 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 |
| Opt vent | 0.0 0.0 | 0.0 | U | 0.0 | 0.0 | 0.0 | 0.0 0.0 | ExFIr | 0 | | riendat | 0.0 | U | 0.0 |
| Total | 4.8 57.5 | | | | | | | Roof | Ö | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | 37.3 | | | | | | ļ | Wall | ő | | Opt Vent | 0.0 | ő | 0.0 |
| | | | | | | | | Ext Door | 0 | | Total | -31.9 | | |

Room Checksums

By Trane

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | TEM | PERATURE | S |
|--------------------------------------|-----------------------------|-----------------------|------------------------------------|---------------------|------------------------|---------------------|----------------------------|----------|--------------------------|----------------------|---------------------|--------------------------------|-------------------------|----------------------|
| | ed at Time: Outside Air: | | 1o/Hr: 5 / 15 B/HR: 87 / 86 / 2 | 37 | Mo/Hr: OADB: | | | | Mo/Hr: I OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 56.2 75.3 | Heatin 75. 69. |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Total | Percent Of Total | Space Sensible | Percent Of Total | : | | Space Peak Space Sens | Tot Sen | Percent of Total | Return Ret/OA | 75.3 76.3 | 69. 66. |
| | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | | | Btu/h | Btu/l | n (%) | Fn MtrTD Fn BldTD | 0.0 | 0. |
| Envelope Loads Skylite Solar | 0 | 0 | 0 | 0 | 0 | 0 | Envelope L Skylite S | | 0 | | 0.00 | Fn Frict | 0.0 | 0. |
| Skylite Cond | ő | ő | ŏ | 0: | ō | ō | | | ő | | | Tilliot | 0.0 | |
| Roof Cond | 0 | 0 | 0 | 0 | 0 | 0 | Roof Cor | nd | 0 | | 0.00 | | | |
| Glass Solar | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | | A | IRFLOWS | |
| Glass/Door Cond | 0 | 0 | 0 | 0 ; | 0 | 0 | | | 0 | | | | Cooling | Heati |
| Wall Cond | 0 | 0 | 0 | 0 : | 0 | 0 | | | 0 | | | Diffuser | 333 | 3 |
| Partition/Door | 331 | | 331 0 | 4: | 463 0 | 8 | | Door | -1,739 | -1,73 | | Terminal | 333 | 3 |
| Floor Adjacent Floor | 0 | 0 | | 0: | 0 | 0 | | Г | 0 | | | Main Fan | 333 | |
| Infiltration | 0 | U | 0 | 0: | 0 | 0 | | | 0 | | | Sec Fan | 0 | |
| Sub Total ==> | 331 | 0 | | 4: | 463 | 8 | | | -1,739 | -1,73 | | Nom Vent | 30 | |
| Sub Total> | 331 | | 331 | 7 | 403 | | | , | 1,700 | -1,70 | 50.52 | AHU Vent | 30 | |
| nternal Loads | | | | | | | Internal Loa | ads | | | | Infil | 0 | |
| Lights | 805 | 0 | 805 | 9 | 805 | 14 | Lights | | 0 | | 0.00 | Min Stop/Rh | 0 | |
| People | 1.800 | 0 | | 19 | 1,000 | 18 | | | 0 | | | Return | 333 | 3 |
| Misc | 3.413 | 0 | | 36 | 3.413 | 60 | | | 0 | | | Exhaust | 30 | |
| Sub Total ==> | 6.018 | 0 | | 64 | 5.218 | 92 | Sub Tota | / ==> | 0 | | | Rm Exh | 0 | |
| Sub Total> | 0,010 | U | 0,010 | 04 | 5,216 | 92 | Sub rota | 11 | U | | 0.00 | Auxiliary | 0 | |
| Ceiling Load | 9 | -9 | 0 | 0: | 14 | 0 | Ceiling Loa | ıd | -23 | | 0.00 | Leakage Dwn | 0 | |
| Ventilation Load | 0 | 0 | 3,026 | 32 | 0 | 0 | Ventilation | Load | 0 | -1,03 | 7 34.91 | Leakage Ups | 0 | |
| Adj Air Trans Heat | 0 | | 0 | 0 | 0 | 0 | Adj Air Tran | ns Heat | 0 | | 0 0 | | | |
| Dehumid. Ov Sizin | g | | 0 | 0 | | | Ov/Undr Siz | zing | 0 | | 0.00 | | | |
| Ov/Undr Sizing | 0 | | 0 | 0 : | 0 | 0 | Exhaust He | | | 1 | | ENGI | NEERING C | KS |
| Exhaust Heat | | -7 | | 0 ; | | | OA Preheat | | | | | | 0 | Heatin |
| Sup. Fan Heat | | | 0 | 0: | | | RA Preheat | | | | | % OA | Cooling 9.0 | neaun 9. |
| Ret. Fan Heat | | 0 | | 0: | | | Additional I System Ple | | | -21 | | cfm/ft² | 2.83 | 2.8 |
| Duct Heat Pkup Underfir Sup Ht Pk | aup. | U | 0 | 0: | | | Underfir Su | | | -21 | | cfm/ton | 427.20 | 2.0 |
| Supply Air Leakag | | 0 | | 0 | | | Supply Air | | | | | ft²/ton | 151.07 | |
| Grand Total ==> | 6,358 | -16 | _ | 100.00 | 5.695 | 100.00 | Grand Tota | | -1.762 | -2.97 | | Btu/hr·ft² No. People | 79.43 | -25.1 |
| Janu Iolai> | 0,356 | | -, | | 5,095 | 100.00 | Grand Tota | , | | -2,97 | | | | |
| | Total Capacity ton MBh | Sens Cap. MBh | G COIL SELE Coil Airflow cfm | Ente | r DB/WB/HR °F gr/lb | Leav °F | e DB/WB/HR °F gr/lb | | AREAS Gross Total | Glass ft² (%) | " | EATING COIL Capacity MBh | Coil Airflow | Ent °F |
| Main Clg | 0.8 9.4 | 5.9 | 333 | 76.3 6 | 4.7 93.7 | 56.2 5 | 4.9 76.9 | Floor | 118 | | Main Htg | -3.0 | 333 | 66.0 |
| | 0.0 0.0 | 0.0 | 333 | | 0.0 0.0 | | 0.0 0.0 | Part | 118 | | Aux Hta | 0.0 | 0 | 0.0 |
| | 0.0 0.0 | 0.0 | 0 | | 0.0 0.0 | | 0.0 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 |
| Obr seur | 0.0 0.0 | 0.0 | u | 0.0 | 2.0 0.0 | 0.0 | 0.0 0.0 | ExFlr | 0 | | rieneat | 0.0 | U | J.U |
| Total | 0.8 9.4 | | | | | | J | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | 0.4 | | | | | | | Wall | Ö | 0 0 | Opt Vent | 0.0 | Ö | 0.0 |
| | | | | | | | | Ext Door | 0 | 0 0 | Total | -3.0 | _ | |

N1 Area 11 Papeleria

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PEAK | | TEM | PERATURE | S |
|-------------------|-------------------------------|---------------------|-----------------|----------|-----------------|----------|----------------------------|----------|-----------------|----------------------|----------|-------------------|-------------------------|----------------------|
| Pe | aked at Time: Outside Air: | Mo/Hr OADB/WB/HR | 5/16 86/85/2 | 31 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 58.1 75.3 | Heatin 79. 69. |
| | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil Peak | Percent | Return | 75.3 75.3 | 69. |
| | Sens. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | | Of Total | Ret/OA | 75.8 | 67. |
| | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | | | Btu/h | Btu/h | | En MtrTD | 0.0 | 0. |
| Envelope Loads | | | | (,-, | | (,-, | Envelope L | oads | - | | (,,,, | Fn BldTD | 0.0 | 0. |
| Skylite Solar | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | (| 0.00 | Fn Frict | 0.0 | 0. |
| Skylite Cond | 0 | | 0 | 0 | 0 | 0 | Skylite C | | 0 | (| | | | |
| Roof Cond | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | (| | | | |
| Glass Solar | 0 | 0 | 0 | 0 ; | 0 | 0 | Glass So | | 0 | (| | A | IRFLOWS | |
| Glass/Door Con | | 0 | 0 | 0; | 0 | 0 | | | 0 | (| | | Cooling | Heati |
| Wall Cond | 0 | 0 | 0 | 0 : | 0 | 0 | | | 0 | | | Diffuser | 163 | |
| Partition/Door | 356 | | 356 | 10 | 384 | 15 | | Door | -1,442 | -1,442 | | Terminal | 163 | |
| Floor | 0 | | 0 | 0 | 0 | 0 | | | 0 | (| | Main Fan | 163 | |
| Adjacent Floor | 0 | | 0 | 0 | 0 | 0 | Adjacent | | 0 | Ç | | | 0 | |
| Infiltration | 0 | | | 0 | 0 | 0 | Infiltration | | | (| | Sec Fan | | |
| Sub Total ==> | 356 | 0 | 356 | 10 | 384 | 15 | Sub Tota | ==> | -1,442 | -1,442 | 79.72 | Nom Vent | 8 | |
| | | | | ; | | | Internal Loa | de | | | | AHU Vent | 8 | |
| Internal Loads | | | | : | | | | ius | | | | Infil | 0 | |
| Lights | 668 | | 668 | 20 | 668 | 27 | Lights | | 0 | (| | MinStop/Rh | 0 | |
| People | 450 | 0 | 450 | 13 | 250 | 10 | | | 0 | (| | Return | 163 | |
| Misc | 1,195 | 0 | 1,195 | 35 | 1,195 | 48 | Misc | | 0 | (| 0.00 | Exhaust | 8 | |
| Sub Total ==> | 2,312 | 0 | 2,312 | 68 | 2,112 | 84 | Sub Tota | ==> | 0 | (| 0.00 | Rm Exh | 0 | |
| | | | | | | | | | | | | Auxiliary | 0 | |
| Ceiling Load | 10 | | 0 | 0 | 12 | 0 | | | -19 | | | Leakage Dwn | 0 | |
| Ventilation Load | 0 | 0 | 722 | 21; | 0 | 0 | Ventilation | | 0 | -259 | | Leakage Ups | 0 | 1 |
| Adj Air Trans He | | | 0 | 0 | 0 | 0 | | | 0 | (| | | | |
| Dehumid. Ov Siz | ing | | 0 | 0 | | | Ov/Undr Siz | | 0 | (| | | | |
| Ov/Undr Sizing | 0 | | 0 | 0: | 0 | 0 | Exhaust He | | | 4 | | ENGI | NEERING C | KS |
| Exhaust Heat | | -2 | -2 | 0 : | | | OA Preheat | | | (| | | Cooling | Heatin |
| Sup. Fan Heat | | | 0 | 0; | | | RA Preheat | | | (| | % OA | 4.6 | Heatin 4. |
| Ret. Fan Heat | | 0 | 0 | 0: | | | Additional I System Ple | | | -112 | | cfm/ft² | 1.67 | 1.6 |
| Duct Heat Pkup | w | U | 0 | 0: | | | | | | -112 | | | 578.27 | 1.0 |
| Underfir Sup Ht I | | | 0 | 0: | | | Underfir Su | | | • | 0.00 | cfm/ton | | |
| Supply Air Leaka | ge | 0 | U | 0 : | | | Supply Air | Leakage | | (| 0.00 | ft²/ton | 346.49 34.63 | -18.4 |
| Grand Total ==> | 2.678 | -12 | 3.387 | 100.00 | 2.508 | 400.00 | Grand Tota | | -1.461 | -1.809 | 100.00 | Btu/hr·ft² | 34.03 | -18.4 |
| Grand Total ==> | 2,078 | -12 | 3,367 | 100.00 | 2,508 | 100.00 | Grand Tota | > | -1,401 | -1,808 | 100.00 | No. People | | |
| | | COOLING C | | | | | | | AREAS | | H | EATING COIL | | |
| | Total Capacity | | il Airflow | | DB/WB/HR | | DB/WB/HR | 1 | Gross Total | Glass | | | Coil Airflow | Ent |
| | ton MBh | MBh | cfm | °F ' | F gr/lb | °F | °F gr/lb | | | ft² (%) | | MBh | cfm | °F |
| Main Clg | 0.3 3.4 | 2.5 | 163 | 75.8 63 | 2 86.5 | 58.1 5 | 6.0 78.5 | Floor | 98 | | Main Htg | -1.8 | 163 | 67.7 |
| Aux Clg | 0.0 0.0 | 0.0 | 0 | | | | 0.0 0.0 | Part | 98 | | Aux Htg | 0.0 | 0 | 0.0 |
| Opt Vent | 0.0 0.0 | 0.0 | 0 | 0.0 0 | 0.0 | 0.0 | 0.0 0.0 | Int Door | . 0 | | Preheat | 0.0 | 0 | 0.0 |
| | | | | | | | | ExFIr | 0 | _ | L | | | |
| Total | 0.3 3.4 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | | | | | | | | Wall | 0 | | Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | Ext Doo | r 0 | 0 0 | Total | -1.8 | | |

Room Checksums By Trane

| | COOLING | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | TEM | PERATURE | S |
|-------------------|------------------------------|-----------------------|------------------------------|---------------------|---------------------|---------------------|----------------------|--------------|--------------------------|------------------------------|---------------------------|--------------------------|-------------------------|-------------------|
| Peal | ked at Time: Outside Air: | | Hr: 5 / 16 R: 86 / 85 / 2 | 31 | Mo/Hr: OADB: | | | | Mo/Hr: I OADB: | Heating Desigr 32 | 1 | SADB Ra Plenum | Cooling 58.9 75.3 | Heati 82 69 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | ak Percent ns Of Total | Return Ret/OA | 75.3 75.7 | 69 68 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu | /h (%) | Fn MtrTD | 0.0 | (|
| nvelope Loads | | | | 1 | | | Envelope Lo | | | | | Fn BldTD | 0.0 | (|
| Skylite Solar | 0 | 0 | 0 | 0 | 0 | 0 | Skylite So | | 0 | | 0.00 | Fn Frict | 0.0 | (|
| Skylite Cond | 0 | 0 | 0 | 0 | 0 | 0 | Skylite Co | | 0 | | 0.00 | | | |
| Roof Cond | 0 | 0 | 0 | 0 | 0 | 0 | Roof Con | | 0 | | 0.00 | | IDEL OWG | |
| Glass Solar | 0 | 0 | 0 | 0 ; | 0 | 0 ; | Glass Sol | | 0 | | 0.00 | | IRFLOWS | |
| Glass/Door Cond | | 0 | 0 | 0 : | 0 | 0 ; | Glass/Doo | | 0 | | 0.00 | | Cooling | Hear |
| Wall Cond | 0 | 0 | 0 | 0: | 0 | 0 : | Wall Cond | | 0 | | 0.00 | Diffuser | 222 | |
| Partition/Door | 609 | | 609 | 15 | 657 | 20 | Partition/E | oor | -2,470 | -2,47 | | Terminal | 222 | |
| Floor | 0 | | 0 | 0 | 0 | 0 | Floor | C1 | 0 | | 0.00 | Main Fan | 222 | |
| Adjacent Floor | 0 | 0 | 0 | 0 | | 0 | Adjacent | Floor | 0 | | 0.00 | | | |
| Infiltration | 0 | | 0 | 0 | 0 | 0 | Infiltration | | 0 | | 0.00 | | 0 | |
| Sub Total ==> | 609 | 0 | 609 | 15 | 657 | 20 | Sub Total | ==> | -2,470 | -2,47 | 0 85.64 | Nom Vent | 8 | |
| | | | | : | | | Internal Lea | da | | | | AHU Vent | 8 | |
| iternal Loads | | | | : | | | Internal Loa | as | | | | Infil | 0 | |
| Lights | 1,144 | 0 | 1,144 | 28 | 1,144 | 35 | Lights | | 0 | | 0.00 | Min Stop/Rh | 0 | |
| People | 450 | 0 | 450 | 11 | 250 | 8 | People | | 0 | | 0.00 | Return | 222 | |
| Misc | 1,195 | 0 | 1,195 | 29 | 1,195 | 37 | Misc | | 0 | | 0.00 | | 8 | |
| Sub Total ==> | 2,788 | 0 | 2,788 | 68 | 2,588 | 79 | Sub Total | ==> | 0 | | 0.00 | Rm Exh Auxiliary | 0 | |
| eiling Load | 17 | -17 | 0 | 0 | 20 | 1 | Ceiling Load | 1 | -33 | | 0.00 | | | |
| entilation Load | 0 | 0 | 722 | 18 | 0 | | Ventilation L | | 0 | -25 | | Leakage Ups | Ö | |
| di Air Trans Heat | | 0 | 0 | 0: | 0 | | Adj Air Tran | | 0 | | 0 0 | | | |
| ehumid. Ov Sizir | | | 0 | 0: | U | 0 | Ov/Undr Siz | | 0 | | 0 0.00 | | | |
| v/Undr Sizing | 0 | | 0 | 0 | 0 | | Exhaust Hea | | U | | 4 -0.15 | | VIEEDINIO O | |
| xhaust Heat | U | -2 | -2 | 8 | U | U | OA Preheat | | | | 0 0.00 | | NEERING C | KS |
| up. Fan Heat | | -2 | 0 | 0: | | | RA Preheat | | | | 0.00 | | Cooling | Heati |
| et. Fan Heat | | 0 | 0 | 0: | | | Additional R | | | | 0.00 | | 3.4 | 3 |
| uct Heat Pkup | | 0 | ő | 0: | | | System Pler | | | -15 | | cfm/ft² | 1.33 | 1. |
| nderfir Sup Ht P | kun | | ŏ | 0: | | | Underfir Su | | | | 0.00 | cfm/ton | 648.26 | |
| upply Air Leakaç | | 0 | ō | 0 | | | Supply Air L | | | | 0 0.00 | ft²/ton | 488.33 | |
| irand Total ==> | 3,414 | -19 | 4,117 | 100.00 | 3,266 | 100.00 | Grand Total | ==> | -2,503 | -2,88 | 34 100.00 | Btu/hr·ft² No. People | 24.57 1 | -17. |
| | | COOLING | | | | | | | AREAS | | F | EATING COIL | | N |
| | Total Capacity ton MBh | Sens Cap. C MBh | coil Airflow cfm | | DB/WB/HR F gr/lb | | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F |
| ain Clg | 0.3 4.1 | 3.3 | 222 | 75.7 62. | .9 84.6 | 58.9 56 | 6.4 79.1 | Floor | 168 | , | Main Htg | -2.9 | 222 | 68.1 |
| ux Clg | 0.0 | 0.0 | 0 | 0.0 0. | 0.0 | 0.0 | 0.0 | Part | 168 | | Aux Htg | 0.0 | 0 | 0.0 |
| pt Vent | 0.0 | 0.0 | 0 | 0.0 0. | 0.0 | 0.0 | 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 |
| | 00 11 | | | | | | | ExFIr | | | Liumiet's | | | 0.0 |
| otal | 0.3 4.1 | | | | | | | Roof Wall | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | | | | | | | | | - | | Opt Vent | | 0 | U.U |
| | | | | | | | | Ext Door | r 0 | 0 0 | Total | -2.9 | | |

By Trane

N1 Area 13 Circulacion Juzgado Ejecucion

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PEAK | | TEM | PERATURE | s |
|-------------------------------|-----------------------------|-----------------------|--------------------------------|---------------------|------------------------|---------------------|--------------------------|---------------|--------------------------|------------------------------|----------|---------------------|-------------------------|-------------------------|
| | ed at Time: Outside Air: | | /Hr: 4 / 10 HR: 68 / 68 / 1 | 25 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 61.0 74.8 | Heating 74.0 69.4 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | Coil Peal Tot Sens | | Return Ret/OA | 74.8 74.7 | 69.4 68.7 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/f | 1 (%) | Fn MtrTD | 0.0 | 0.0 |
| Envelope Loads | 0 | 0 | 0 | 0 | 0 | | Envelope L | | 0 | (| 0.00 | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar Skylite Cond | 0 | 0 | 0 | 0 | 0 | 0 | Skylite So Skylite Co | | 0 | | | Fn Frict | 0.0 | 0.0 |
| Roof Cond | 0 | 0 | 0 | 0 | 0 | 0 | Roof Con | | 0 | | | | | |
| Glass Solar | 20.688 | 0 | 20.688 | 74 | 20,688 | 78 | Glass So | | 0 | ì | | | IRFLOWS | |
| Glass/Door Cond | -185 | ő | -185 | -13 | -185 | -1 | | | -696 | -696 | | '' | | |
| Wall Cond | -24 | -160 | -183 | -1 | | 0 | | | -153 | -1,209 | | | Cooling | |
| Partition/Door | -2,621 | | -2,621 | -9 | -2,621 | -10 | | Door | -6,543 | -6,543 | | Diffuser | 2,071 | 2,071 |
| Floor | 0 | | 0 | 0 | 0 | 0 | Floor | | 0 | (| | Terminal | 2,071 | 2,071 |
| Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | | 0 | (| | Main Fan | 2,071 | 2,071 |
| Infiltration | 0 | | 0 | 0 | 0 | 0 | | | 0 | | | Sec Fan | 0 | _ |
| Sub Total ==> | 17,858 | -160 | 17,698 | 63 | 17,858 | 68 | : Sub Total | /==> | -7,393 | -8,448 | 85.09 | Nom Vent | 38 | |
| | | | | | | | : Internal Loa | vde. | | | | AHU Vent | 38 | |
| Internal Loads | | | | | | | | us | | | | Infil | 0 | |
| Lights | 3,030 | 0 | 3,030 | 11 | 3,030 | 11 | | | 0 | (| | MinStop/Rh | 0 | |
| People | 2,250 | 0 | 2,250 | 8 | 1,250 | 5 | People | | 0 | (| | Return | 2,071 | |
| Misc | 4,266 | 0 | 4,266 | 15 | 4,266 | 16 | Misc | | 0 | (| | Exhaust | 38 0 | |
| Sub Total ==> | 9,546 | 0 | 9,546 | 34 | 8,546 | 32 | Sub Total | ==> | 0 | (| 0.00 | Rm Exh Auxiliary | 0 | |
| Ceiling Load | -30 | 30 | 0 | 0 | -30 | 0 | Ceiling Loa | d | -88 | (| 0.00 | Leakage Dwn | 0 | |
| Ventilation Load | -30 | 3U 0 | 734 | 3 | -30 | 0 | Ventilation | | -00 | -1.296 | | Leakage Ups | 0 | |
| Adj Air Trans Heat | | U | 7.34 | 0 | 0 | | Adj Air Tran | | 0 | -1,250 | | Leakage Ups | U | U |
| Dehumid, Ov Sizin | | | 0 | 0 | U | U | Ov/Undr Siz | | 0 | ì | | | | |
| Ov/Undr Sizing | 0 | | 0 | 0 | 0 | 0 | Exhaust He | | U | 2. | | ENICIA | NEERING CI | V.C |
| Exhaust Heat | U | 7 | 7 | ő: | U | U | : OA Preheat | | | -(| | ENGIR | NEEKING CI | N.S |
| Sup. Fan Heat | | | 0 | 0 | | | RA Preheat | | | (| | | Cooling | Heating |
| Ret. Fan Heat | | 0 | 0 | 0 : | | | Additional F | | | (| | % OA | 1.8 | 1.8 |
| Duct Heat Pkup | | 0 | 0 | 0: | | | : System Ple | | | -20 | | cfm/ft² | 4.66 | 4.66 |
| Underfir Sup Ht Pk | | | 0 | 0 | | | Underfir Su | | | (| | cfm/ton | 887.81 | |
| Supply Air Leakag | e | 0 | 0 | 0 ; | | | Supply Air | Leakage | | (| 0.00 | ft²/ton | 190.32 | |
| | | | | | | | | | | | | Btu/hr·ft² | 63.05 | -22.37 |
| Grand Total ==> | 27,374 | -122 | 27,986 | 100.00 | 26,374 | 100.00 | Grand Total | / ==> | -7,480 | -9,928 | 3 100.00 | No. People | 5 | |
| | | | COIL SELE | | | | | | AREAS | | H | EATING COIL | | |
| | Total Capacity ton MBh | Sens Cap. MBh | Coil Airflow cfm | | r DB/WB/HR °F gr/lb | °F | °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent Lvg |
| Main Clg | 2.3 28.0 | 26.0 | 2.071 | 74.7 6 | 1.8 80.4 | 61.0 5 | 7.0 78.5 | Floor | 444 | | Main Htg | -9.9 | 2.071 | 68.7 74.0 |
| | 0.0 0.0 | 0.0 | 2,071 | | 0.0 0.0 | | 0.0 0.0 | Part | 444 | | Aux Hta | 0.0 | 2,071 | 0.0 0.0 |
| rian oig | 0.0 0.0 | 0.0 | 0 | | 0.0 0.0 | | 0.0 0.0 | Int Doo | r 0 | | Preheat | 0.0 | 0 | 0.0 0.0 |
| Total | 2.3 28.0 | | | | | | | ExFIr Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 0.0 |
| rotar | 2.5 20.0 | | | | | | | Wall | 433 | 258 60 | Opt Vent | 0.0 | 0 | 0.0 0.0 |
| | | | | | | | | Ext Doo | | 0 0 | Total | -9.9 | • | |
| | | | | | | | | LAL DOG | . , | 0 0 | , Juli | -0.0 | | |

Room Checksums By Trane

| | COOLING | COIL PEA | ĸK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEA | Κ. | | TEMP | PERATURE | S | |
|--------------------------------------|-----------------------------|-------------|-------------------------|--------------|-----------|---------------------|----------|----------------------------|----------|-------------------|--------------------|------|--------------|-------------------|-------------------------|-----------|--------------|
| | ed at Time: Outside Air: | OADB/ | Mo/Hr: 5 / WB/HR: 87 | | 37 | Mo/Hr: 9 OADB: 9 | | | | Mo/Hr: I OADB: | Heating Desi 32 | ign | | SADB Ra Plenum | Cooling 51.1 75.3 | | 89.6 69.4 |
| | Spac | e Plen | um | Net | Percent : | Space | Percent | | | Space Peak | Coil F | eak | Percent | Return | 75.3 | | 69.4 |
| | Sens. + La | . Sens. + I | .at | Total | Of Total | Sensible | Of Total | | | Space Sens | Tot 9 | ens | Of Total | Ret/OA | 78.3 | | 59. |
| | Btu/ | n Bti | ı/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Е | tu/h | (%) | Fn MtrTD | 0.0 | | 0. |
| Envelope Loads | | | _ | | | | | Envelope L | | | | | | Fn BldTD | 0.0 | | 0. |
| Skylite Solar | |) | 0 | 0 | 0 : | 0 | 0 | Skylite So | | 0 | | 0 | 0.00 | Fn Frict | 0.0 | | 0. |
| Skylite Cond | |) | 0 | 0 | 0 | 0 | 0 | Skylite Co | | 0 | | 0 | 0.00 | | | | = |
| Roof Cond Glass Solar | |) | 0 | 0 | 0 | 0 | 0 | Roof Con Glass So | | 0 | | 0 | 0.00 | | RFLOWS | | |
| Glass/Door Cond | |) | 0 | 0 | 0: | 0 | 0 | Glass/Do | | 0 | | 0 | 0.00 | AI | | | |
| Wall Cond | | , | 0 | 0 | 0: | 0 | 0 | Wall Con | | 0 | | ő | 0.00 | | Cooling | | eati |
| Partition/Door | 28 | | | 286 | 6 | 400 | 22 | Partition/ | | -1.502 | -1 | 502 | 64.31 | Diffuser | 86 | | |
| Floor | | ń | | 0 | 0: | 0 | 0 | Floor | 5001 | 0,002 | | 0 | 0.00 | Terminal | 86 | | |
| Adjacent Floor | |) | 0 | ō | 0: | ō | ō | Adjacent | Floor | 0 | | ō | 0.00 | Main Fan | 86 | | |
| Infiltration | |) | | 0 | 0 | 0 | 0 | Infiltration | | 0 | | 0 | 0.00 | Sec Fan | C | | |
| Sub Total ==> | 28 | 6 | 0 | 286 | 6: | 400 | 22 | Sub Total | ==> | -1,502 | -1 | 502 | 64.31 | Nom Vent | 23 | | |
| | | | | | : | | | | | | | | | AHU Vent | 23 | | |
| nternal Loads | | | | | | | | Internal Loa | ds | | | | | Infil | C | | |
| Lights | 69 | 3 | 0 | 696 | 15 | 696 | 37 | Lights | | 0 | | 0 | 0.00 | Min Stop/Rh | C | | |
| People | 1.35 | | | 1,350 | 29 | 750 | 40 | People | | 0 | | ō | 0.00 | Return | 86 | | |
| Misc | ., |) | 0 | 0 | 0 | 0 | 0 | Misc | | 0 | | 0 | 0.00 | Exhaust | 23 | | |
| Sub Total ==> | 2.04 | 3 | 0 | 2.046 | 45 | 1.446 | 78 | Sub Total | ==> | 0 | | 0 | 0.00 | Rm Exh | C | | |
| | _, | - | - | _, | | 1,110 | | | | - | | - | | Auxiliary | C | | |
| Ceiling Load | | 3 | -8 | 0 | 0 | 12 | 1 | Ceiling Loa | | -20 | | 0 | 0.00 | Leakage Dwn | C | | |
| Ventilation Load | |) | 0 | 2,269 | 49: | 0 | 0 | Ventilation | Load | 0 | | -778 | 33.30 | Leakage Ups | C | | |
| Adj Air Trans Heat | |) | | 0 | 0: | 0 | 0 | Adj Air Tran | s Heat | 0 | | 0 | 0 | | | | |
| Dehumid. Ov Sizir | g | | | 0 | 0 | | | Ov/Undr Siz | | 0 | | 0 | 0.00 | | | | = |
| Ov/Undr Sizing | |) | _ | 0 | 0: | 0 | 0 | Exhaust He | | | | 13 | -0.55 | ENGIN | EERING C | KS | |
| Exhaust Heat | | | -5 | -5 | 0 : | | | OA Preheat | | | | 0 | 0.00 | | Cooling | Hea | |
| Sup. Fan Heat | | | | 0 | 0: | | | RA Preheat | | | | 0 | 0.00 | % OA | 26.3 | | 26. |
| Ret. Fan Heat | | | 0 | 0 | 0: | | | Additional I System Ple | | | | -69 | 0.00 2.94 | cfm/ft² | 0.84 | | 0.8 |
| Duct Heat Pkup Underfir Sup Ht Pi | | | U | 0 | 0: | | | Underfir Su | | | | 09 | 0.00 | cfm/ton | 223.32 | | U.C |
| Supply Air Leakag | | | 0 | 0 | 0: | | | Supply Air | | | | 0 | 0.00 | ft²/ton | 266.08 | | |
| supply All Leakag | е | | U | U | 0 | | | Supply All | Leakage | | | U | 0.00 | Btu/hr-ft² | 45.10 | 2 | 2.9 |
| Grand Total ==> | 2,34 |) - | 13 | 4,595 | 100.00 | 1,858 | 100.00 | Grand Total | ==> | -1,522 | -2 | ,336 | 100.00 | No. People | 45.10 | -2. | 2.3 |
| | | COOL | ING COIL | SELE | CTION | | | | | AREAS | | | HE | EATING COIL | SELECTIO | N | = |
| | Total Capacit ton MB | | | rflow cfm | | DB/WB/HR F gr/lb | | DB/WB/HR °F gr/lb | | Gross Total | Glass ft² (%) | | | Capacity MBh | Coil Airflow cfm | Ent °F | |
| Main Clg | 0.4 4. | 3 2 | .0 | 86 | 78.3 69. | 8 121.0 | 51.1 5 | 1.1 68.2 | Floor | 102 | | - 11 | Main Htg | -2.3 | 86 | 59.5 | |
| ux Clg | 0.0 0. |) (| .0 | 0 | 0.0 0. | 0.0 | 0.0 | 0.0 | Part | 102 | | - 14 | Aux Htg | 0.0 | 0 | 0.0 | |
| | 0.0 0. |) (| .0 | 0 | 0.0 0. | 0.0 | 0.0 | 0.0 0.0 | Int Door | 0 | | | Preheat | 0.0 | 0 | 0.0 | |
| | | | | - | | | | | ExFlr | ō | | | | | - | | |
| Total | 0.4 4. | 3 | | | | | | | Roof | 0 | 0 0 | | Humidif | 0.0 | 0 | 0.0 | |
| | | | | | | | | | Wall | 0 | 0 0 | 11 | Opt Vent | 0.0 | 0 | 0.0 | |
| | | | | | | | | | | | | | | | | | |

By Trane

N1 Area 15 Testigos de descargo

| | COOLING | COIL PEAK | | C | LG SPACE | PEAK | | | HEATING (| COIL PEAK | | TEM | PERATURE | s |
|--------------------------------------|-----------------------------|------------------|--------------------------------|-----------|------------------|-------------|--------------------------|---------------|-----------------|------------------------------|----------|-------------------|-------------------------|-------------------------|
| | ed at Time: Outside Air: | | /Hr: 5 / 15 HR: 87 / 86 / 2 | 37 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 51.1 75.3 | Heating 89.6 69.4 |
| | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil Peak | Percent | Return | 75.3 | 69.4 |
| | Sens. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | Tot Sens | Of Total | Ret/OA | 78.3 | 59.5 |
| | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | 0.0 |
| Envelope Loads | | | | : | | | Envelope Lo | | | | | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar | 0 | 0 | 0 | 0 : | 0 | 0 | | | 0 | 0 | | Fn Frict | 0.0 | 0.0 |
| Skylite Cond | 0 | 0 | 0 | 0 | 0 | 0 | Skylite Co | | 0 | 0 | | | | |
| Roof Cond | 0 | 0 | 0 | 0 | 0 | 0 | Roof Cond | | 0 | (| | | IRFLOWS | |
| Glass Solar Glass/Door Cond | | 0 | 0 | 0 | 0 | 0 | Glass Sola Glass/Doc | | 0 | Ĺ | | A | | |
| Wall Cond | 0 | | 0 | 0 | 0 | 0 | | | 0 | | | | Cooling | Heating |
| Partition/Door | 286 | 0 | 286 | 6 | 400 | 22 | | | -1,502 | -1,502 | | Diffuser | 86 | 86 |
| Floor | 0 | | 0 | 0: | 0 | 0 | | 7001 | -1,502 | -1,502 | | Terminal | 86 | 86 |
| Adjacent Floor | ō | 0 | ő | 0: | Ö | Ö | Adiacent I | -loor | 0 | č | | Main Fan | 86 | 86 |
| Infiltration | ō | - | ō | 0: | 0 | ō | Infiltration | | ō | Č | | Sec Fan | 0 | 0 |
| Sub Total ==> | 286 | 0 | 286 | 6 | 400 | 22 | | ==> | -1,502 | -1,502 | | Nom Vent | 23 | 23 |
| | | | | : | | | | | | | | AHU Vent | 23 | 23 |
| Internal Loads | | | | | | | Internal Load | ds | | | | Infil | 0 | |
| Lights | 696 | 0 | 696 | 15 | 696 | 37 | Lights | | 0 | 0 | 0.00 | Min Stop/Rh | 0 | |
| People | 1,350 | ő | 1,350 | 29 | 750 | 40 | People | | ő | č | | Return | 86 | 86 |
| Misc | 0 | 0 | 0 | 0 | 0 | 0 | Misc | | 0 | Ċ | 0.00 | Exhaust | 23 | 23 |
| Sub Total ==> | 2.046 | 0 | 2.046 | 45 | 1,446 | 78 | Sub Total | ==> | 0 | 0 | 0.00 | Rm Exh | 0 | 0 |
| out rotal | 2,010 | | 2,010 | | 1,110 | | | | | | 0.00 | Auxiliary | 0 | 0 |
| Ceiling Load | 8 | -8 | 0 | 0 | 12 | 1 | Ceiling Load | ı | -20 | C | 0.00 | Leakage Dwn | 0 | 0 |
| Ventilation Load | 0 | 0 | 2,269 | 49 | 0 | 0 | Ventilation L | .oad | 0 | -778 | 33.30 | Leakage Ups | 0 | 0 |
| Adj Air Trans Heat | 0 | | 0 | 0: | 0 | 0 | Adj Air Trans | s Heat | 0 | 0 | 0 | | | |
| Dehumid. Ov Sizin | g | | 0 | 0 | | | Ov/Undr Sizi | | 0 | 0 | | | | |
| Ov/Undr Sizing | 0 | | 0 | 0 : | 0 | 0 | Exhaust Hea | | | 13 | | ENGIN | IEERING CI | KS |
| Exhaust Heat | | -5 | -5 | 0 : | | | OA Preheat | | | (| | | Cooling | Heating |
| Sup. Fan Heat | | | 0 | 0: | | | RA Preheat | | | 0 | | % OA | 26.3 | 26.3 |
| Ret. Fan Heat | | 0 | 0 | 0: | | | Additional R System Plen | | | -69 | | cfm/ft² | 0.84 | 0.84 |
| Duct Heat Pkup Underfir Sup Ht Pk | aun. | U | 0 | 0: | | | Underfir Su | | | -00 | | cfm/ton | 223.32 | 0.04 |
| Supply Air Leakag | | 0 | 0 | 0: | | | Supply Air L | | | č | 0.00 | ft²/ton | 266.08 | |
| Supply All Leakay | e | 0 | 0 | ٠: | | | Supply All L | cakaye | | , | 0.00 | Btu/hr-ft² | 45.10 | -22.92 |
| Grand Total ==> | 2,340 | -13 | 4,595 | 100.00 | 1,858 | 100.00 | Grand Total | ==> | -1,522 | -2,336 | 100.00 | No. People | 3 | 22.02 |
| | | | COIL SELE | | | | | | AREAS | | н | EATING COIL | | |
| | Total Capacity ton MBh | Sens Cap. MBh | Coil Airflow cfm | | B/WB/HR gr/lb | Leave °F | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | ent Lv |
| Main Clg | 0.4 4.6 | 2.0 | 86 | 78.3 69.8 | 121.0 | 51.1 5 | 1.1 68.2 | Floor | 102 | . | Main Htg | -2.3 | 86 | 59.5 89. |
| Aux Cla | 0.0 0.0 | 0.0 | 0 | | 0.0 | | 0.0 0.0 | Part | 102 | | Aux Htg | 0.0 | 0 | 0.0 0. |
| Opt Vent | 0.0 0.0 | 0.0 | 0 | 0.0 0.0 | 0.0 | | 0.0 0.0 | Int Doo | r 0 | | Preheat | 0.0 | 0 | 0.0 0. |
| Total | 0.4 4.6 | | | | | | | ExFIr Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 0. |
| | | | | | | | | | | | | | | |
| Total | | | | | | | | Wall | 0 | 0 0 | Opt Vent | 0.0 | 0 | 0.0 0. |

Room Checksums

By Trane

| | coo | LING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING O | OIL PEA | K | | TEMP | ERATURE | S | |
|-------------------------------|----------------------|----------------|-------------|-------------------------------|----------|-------------------|----------|--------------------------|--------------|-----------------|-----------------------------|-------|----------|---------------------|-------------------------|------|--------------|
| | ed at Tir Outside | | | Hr: 11 / 18 R: 70 / 70 / 1 | 38 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Des 32 | sign | | SADB | Cooling 59.5 75.3 | | 84.1 |
| | | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil | Peak | Percent | Ra Plenum Return | 75.3 75.3 | | 69.4 69.4 |
| | Sens | . + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | | | Of Total | Ret/OA | 75.1 | | 68.0 |
| | | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | | Btu/h | (%) | Fn MtrTD | 0.0 | | 0.0 |
| nvelope Loads | | | 0 | 0 | | 0 | | Envelope Lo | | 0 | | 0 | 0.00 | Fn BldTD | 0.0 | | 0.0 |
| Skylite Solar Skylite Cond | | 0 | 0 | 0 | 0: | 0 | 0 | Skylite So Skylite Co | | 0 | | 0 | 0.00 | Fn Frict | 0.0 | | U.U |
| Roof Cond | | 0 | 0 | 0 | 0: | 0 | 0 | Roof Con | | 0 | | 0 | 0.00 | | | | = |
| Glass Solar | | 0 | 0 | 0 | 0 | 0 | 0 | Glass Sol | | 0 | | 0 | 0.00 | ΔΙΙ | RFLOWS | | |
| Glass/Door Cond | | ő | ő | ő | 0: | ő | 0 | Glass/Do | | 0 | | ñ | 0.00 | 7.11 | | | |
| Wall Cond | | 938 | 509 | 1.446 | 39 | 938 | 34 | | | -755 | -1 | 1,161 | 40.17 | | Cooling | | eatii |
| Partition/Door | | -92 | | -92 | -2 | -92 | -3 | Partition/I | Door | -1,753 | | 1,753 | 60.69 | Diffuser | 197 | | 1 |
| Floor | | 0 | | 0 | 0: | 0 | Ō | Floor | | 0 | | 0 | 0.00 | Terminal | 197 | | 1 |
| Adjacent Floor | | ō | 0 | ō | 0 | ō | ō | Adjacent | Floor | ō | | 0 | 0.00 | Main Fan | 197 | | 1 |
| Infiltration | | 0 | | 0 | 0 | 0 | 0 | Infiltration | | 0 | | 0 | 0.00 | Sec Fan | 0 | | |
| Sub Total ==> | | 846 | 509 | 1.354 | 37 | 846 | 30 | Sub Total | ==> | -2,508 | -2 | 2,914 | 100.87 | Nom Vent | 8 | | |
| | | | | -, | | | | | | | | | | AHU Vent | 8 | | |
| nternal Loads | | | | | : | | | Internal Loa | ds | | | | | Infil | 0 | | |
| Lights | | 481 | 0 | 481 | 13 | 481 | 17 | Lights | | 0 | | 0 | 0.00 | Min Stop/Rh | ō | | |
| People | | 450 | 0 | 450 | 12 | 250 | 9 | People | | 0 | | ő | | Return | 197 | | 1 |
| Misc | | 1,195 | 0 | 1,195 | 32 | 1.195 | 43 | Misc | | 0 | | 0 | 0.00 | Exhaust | 107 | | |
| Sub Total ==> | | 2.126 | 0 | 2.126 | 58 | 1,926 | 69 | Sub Total | | 0 | | 0 | 0.00 | Rm Exh | Ö | | |
| Sub Total ==> | | 2,120 | U | 2,120 | 50 | 1,920 | 09 | Sub rotal | | U | | U | 0.00 | Auxiliary | 0 | | |
| Ceiling Load | | 7 | -7 | 0 | 0 | 7 | 0 | Ceiling Load | d | -14 | | 0 | 0.00 | Leakage Dwn | ō | | |
| entilation Load | | ó | 0 | 217 | 6 | ó | n n | Ventilation I | | 0 | | -259 | 8.98 | Leakage Ups | 0 | | |
| Adj Air Trans Heat | | 0 | · · | 0 | 0 | 0 | 0 | Adj Air Tran | s Heat | 0 | | 0 | 0 | Lounage opo | | | |
| Dehumid, Ov Sizir | | U | | 0 | 0: | 0 | U | Ov/Undr Siz | | 0 | | 0 | 0.00 | | | | _ |
| Ov/Undr Sizing | Я | 0 | | 0 | 0 | 0 | 0 | Exhaust He | | U | | 4 | -0.15 | ENCIN | EERING C | vc | |
| Exhaust Heat | | U | -2 | -2 | ŏ: | U | U | OA Preheat | | | | 0 | 0.00 | ENGIN | EERING C | ns | |
| Sup. Fan Heat | | | - | ō | 0 | | | RA Preheat | | | | 0 | 0.00 | | Cooling | Hea | atin |
| Ret. Fan Heat | | | 0 | ŏ | 0: | | | Additional F | | | | ő | 0.00 | % OA | 3.8 | | 3. |
| Ouct Heat Pkup | | | ō | ō | 0: | | | System Plei | | | | 280 | -9.70 | cfm/ft² | 2.79 | | 2.7 |
| Inderfir Sup Ht Pi | cup | | | 0 | 0: | | | Underfir Su | p Ht Pkup | | | 0 | 0.00 | cfm/ton | 639.57 | | |
| Supply Air Leakag | | | 0 | 0 | 0: | | | Supply Air I | | | | 0 | 0.00 | ft²/ton | 228.93 | | |
| | - | | _ | _ | - | | | | | | | _ | | Btu/hr-ft² | 52.42 | -4 | 0.99 |
| Grand Total ==> | | 2,978 | 499 | 3,694 | 100.00 | 2,778 | 100.00 | Grand Total | ==> | -2,522 | -2 | 2,889 | 100.00 | No. People | 1 | | |
| | | | COOLING | COIL SELE | спои | | | | | AREAS | | | HE | EATING COIL | SELECTIO | N | _ |
| | Total Ca | apacity MBh | Sens Cap. C | | Enter | OB/WB/HR gr/lb | | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (% | . | | | Coil Airflow | Ent | |
| | 0.3 | 3.7 | 3.3 | 197 | | 2 | 59.5 5 | | Floor | 70 | (76 | . 11 | Main Htg | -2.9 | | 68.0 | |
| | 0.3 | 0.0 | 0.0 | 197 | | | | 0.0 0.0 | Part | 70 119 | | | | -2.9 | 197 | 0.0 | |
| | | | | - | | | | | | | | | Aux Htg | | | | |
| pt Vent | 0.0 | 0.0 | 0.0 | 0 | 0.0 0. | 0.0 | 0.0 | 0.0 0.0 | Int Door | 0 | | יוו | Preheat | 0.0 | 0 | 0.0 | |
| | 0.2 | 2.7 | | | | | | | ExFlr | 0 | | , II. | | 0.0 | | | |
| otal | 0.3 | 3.7 | | | | | | | Roof Wall | 0 | | | Humidif | 0.0 | 0 | 0.0 | |
| | | | | | | | | | | 166 | _ | _ | Opt Vent | | U | U.U | |
| | | | | | | | | | Ext Door | . 0 | 0 | D II | Total | -2.9 | | | |

By Trane

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PEAK | | TEM | PERATURE | s |
|----------------------------------|-----------------------------|-----------------------|----------------------------------|---------------------|------------------------|---------------------|---------------|------------|--------------------------|------------------------------|-------------------------|------------------------|-------------------------|----------------------|
| | ed at Time: Outside Air: | | o/Hr: 5 / 16 /HR: 86 / 85 / 2 | 31 | Mo/Hr: OADB: | | : | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 57.0 75.3 | Heatin 99. 69. |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | : | | Space Peak Space Sens | Tot Sen | k Percent s Of Total | Return Ret/OA | 75.3 76.1 | 69. 66. |
| | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | | | Btu/h | Btu/ | h (%) | Fn MtrTD Fn BldTD | 0.0 | 0. |
| Envelope Loads Skylite Solar | 0 | 0 | 0 | 0 | 0 | | Envelope L | | 0 | | 0.00 | | 0.0 | 0. |
| | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | 0 0.00 0 0.00 | Fn Frict | 0.0 | U. |
| Skylite Cond | 0 | 0 | | 0 | 0 | 0 | | | 0 | | | | | |
| Roof Cond | | | 0 | | | | | | | | 0.00 | | IDEL OWIG | |
| Glass Solar | 650 | 0 | 650 | 5 | 572 | 7 | | | 0 | | 0.00 | A | IRFLOWS | |
| Glass/Door Cond | 333 | 0 | 333 | 2: | 294 | 3 | | or Cond | -1,169 | -1,16 | | | Cooling | Heati |
| Wall Cond | 72 | 502 | 574 | 4: | 67 | _ 1 | | | -76 | -60 | | Diffuser | 532 | 5 |
| Partition/Door | 3,164 | | 3,164 | 23 | 3,413 | 39 | | Door | -12,826 | -12,82 | | | 532 | |
| Floor | 0 | | 0 | 0 | 0 | 0 | | | 0 | | 0.00 | Terminal Main Fan | 532 | |
| Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | 0.00 | | | |
| Infiltration | 0 | | 0 | 0 | 0 | 0 | | | 0 | | 0.00 | Sec Fan | 0 | |
| Sub Total ==> | 4,219 | 502 | 4,721 | 35 : | 4,346 | 50 | : Sub Tota | a/ ==> | -14,071 | -14,59 | 9 92.77 | Nom Vent | 38 | |
| | | | | | | | | | | | | AHU Vent | 38 | |
| Internal Loads | | | | | | | Internal Lo | ads | | | | Infil | 0 | |
| Lights | 3.076 | 0 | 3.076 | 23 | 3.076 | 35 | Lights | | 0 | | 0.00 | Min Stop/Rh | 0 | |
| People | 2,250 | 0 | 2.250 | 16 | 1,250 | 14 | | | 0 | | 0.00 | Return | 532 | |
| Misc | 2,200 | 0 | 0 | 0 | 0,200 | 0 | | | 0 | | 0.00 | Exhaust | 38 | |
| | - | _ | _ | | _ | _ | | | 0 | | 0.00 | Rm Exh | 0 | |
| Sub Total ==> | 5,326 | 0 | 5,326 | 39 | 4,326 | 50 | Sub Tota | a/ ==> | 0 | | 0.00 | Auxiliary | 0 | |
| Cailing Load | 45 | -45 | | 0 | | 1 | Ceiling Loa | | -89 | | 0.00 | Leakage Dwn | 0 | |
| Ceiling Load Ventilation Load | 45 | | 0 | | 55 | | Ventilation | | -89 | -1.29 | | | | |
| | 0 | 0 | 3,609 | 26 | 0 | 0 | | | | | | Leakage Ups | 0 | |
| Adj Air Trans Heat | 0 | | 0 | 0 | 0 | 0 | : Adj Air Tra | | 0 | | 0 0 | | | |
| Dehumid. Ov Sizing | | | 0 | 0 | | | Ov/Undr Si | | 0 | | 0.00 | | | |
| Ov/Undr Sizing | 0 | | .0 | 0: | 0 | 0 | Exhaust He | | | 2 | | ENGI | NEERING C | KS |
| Exhaust Heat | | -11 | -11 | 0 ; | | | ; OA Prehea | | | | 0.00 | | 0 | |
| Sup. Fan Heat | | | 0 | 0 : | | | RA Preheat | | | | 0.00 | ~ ~ | Cooling | Heatin |
| Ret. Fan Heat | | 0 | 0 | 0 : | | | Additional | | | | 0.00 | % OA | 7.0 | 7. |
| Duct Heat Pkup | | 0 | 0 | 0 | | | System Ple | | | 13 | | cfm/ft² | 1.18 | 1.1 |
| Underfir Sup Ht Pk | JD qt | | 0 | 0 | | | Underfir Si | up Ht Pkup | | | 0.00 | cfm/ton | 468.14 | |
| Supply Air Leakage | , | 0 | 0 | 0 | | | Supply Air | Leakage | | | 0.00 | ft²/ton | 396.30 | |
| | | | | | | | | | | | | Btu/hr-ft ² | 30.28 | -34.9 |
| Grand Total ==> | 9,590 | 446 | 13,645 | 100.00 | 8,727 | 100.00 | Grand Tota | n/ ==> | -14,160 | -15,73 | 7 100.00 | No. People | 5 | |
| | | | COIL SELE | | | | | | AREAS | | н | EATING COIL | | N |
| | Total Capacity on MBh | Sens Cap. MBh | Coil Airflow cfm | | r DB/WB/HR *F gr/lb | Leav °F | °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F |
| Main Cla | 1.1 13.7 | 9.4 | 532 | 76.1.6 | 4.0 90.2 | 57.0 5 | 5.0 76.0 | Floor | 451 | | Main Htg | -15.7 | 532 | 66.7 |
| | | | | | | | | | 870 | | | | | |
| | 0.0 | 0.0 | C | | 0.0 0.0 | | 0.0 0.0 | Part | | | Aux Htg | 0.0 | 0 | 0.0 |
| Opt Vent | 0.0 | 0.0 | C | 0.0 | 0.0 | 0.0 | 0.0 0.0 | Int Door | | | Preheat | 0.0 | 0 | 0.0 |
| | | | | | | | | ExFlr | 0 | | | | | |
| Total | 1.1 13.7 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | | | | | | | | Wall | 217 | 129 60 | Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | Ext Doo | r 0 | 0 0 | Total | -15.7 | | |

| | COOLING | OU DEAK | | | CLG SPACE | DEAK | | | HEATING C | OIL DEAK | | 75.4 | DEDATURE | _ |
|--------------------------------------|---------------------------|-----------------------|---------------------|----------|------------------------|-------------|-----------------------------|----------|-------------|------------------------------|------------|----------------------|---------------------|-------------|
| | | | | | | | | | | | | IEM | PERATURE | |
| | red at Time: | | /Hr: 5 / 18 | . : | Mo/Hr: | | | | | Heating Design | | | Cooling | Heating |
| | Outside Air: | OADB/WB/ | HR: 80 / 80 / 1 | 94 | OADB: | 80 | | | OADB: | 32 | | SADB | 60.9 | 87.6 |
| | | | | | | | | | | | | Ra Plenum | 75.5 | 69.4 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net | Percent | Space | Percent | | | Space Peak | | Percent | Return | 75.5 | 69.4 |
| | | | Total | Of Total | Sensible | Of Total | | | Space Sens | | Of Total | Ret/OA | 75.5 0.0 | 68.9 0.0 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/f | 1 (%) | Fn MtrTD Fn BldTD | 0.0 | 0.0 |
| Envelope Loads Skylite Solar | 0 | 0 | 0 | 0 | 0 | 0 | Skylite So | | 0 | (| 0.00 | Fn Frict | 0.0 | 0.0 |
| Skylite Cond | 0 | 0 | 0 | 0: | 0 | 0 | Skylite Co | | 0 | | | FII FIICT | 0.0 | 0.0 |
| Roof Cond | 0 | 0 | 0 | 0: | 0 | 0 | Roof Con | | 0 | | | | | |
| Glass Solar | 0 | 0 | 0 | 0: | 0 | 0 | Glass Sol | | 0 | ì | | ll 🛕 | IRFLOWS | |
| Glass/Door Cond | 0 | 0 | 0 | 0 | 0 | 0 | Glass/Do | | 0 | | | ^ | | |
| Wall Cond | 1.154 | 623 | 1.777 | 19: | 1.154 | 15 | Wall Cond | | -1.184 | -1,820 | | | Cooling | Heating |
| Partition/Door | 2.147 | 020 | 2.147 | 23 | 2.147 | 27 | Partition/E | | -8.631 | -8.631 | | Diffuser | 618 | 618 |
| Floor | 2,147 | | 2,1-1 | 0: | 2,147 | 0 | Floor | ,001 | 0,001 | 0,00 | | Terminal | 618 | 618 |
| Adjacent Floor | o o | 0 | ő | 0: | Ď. | 0 | Adjacent | loor | 0 | i | | Main Fan | 618 | 618 |
| Infiltration | ő | | ŏ | ő: | ŏ | ŏ | Infiltration | 1001 | ő | i | | Sec Fan | 0 | (|
| Sub Total ==> | 3.301 | 623 | 3.924 | 43: | 3.301 | 42 | | ==> | -9.815 | -10.45 | | Nom Vent | 8 | |
| Sub Total ==> | 3,301 | 023 | 5,524 | 40 | 3,301 | 72 | ous rolar | | 0,010 | 10,10 | 00.44 | AHU Vent | 8 | 8 |
| Internal Loads | | | | | | | Internal Loa | ds | | | | Infil | 0 | |
| | | | 2 444 | | | | | | | | | | - | |
| Lights | 3,111 | 0 | 3,111 | 34 | 3,111 | 39 | Lights | | 0 | (| | Min Stop/Rh | 0 | |
| People | 450 | 0 | 450 | 5 | 250 | 3 | People | | 0 | | | Return | 618 8 | 010 |
| Misc | 1,195 | _ | 1,195 | 13 | 1,195 | 15 | Misc | | | | 0.00 | Exhaust | 0 | |
| Sub Total ==> | 4,755 | 0 | 4,755 | 52 | 4,555 | 58 | Sub Total | ==> | 0 | (| 0.00 | Rm Exh | | |
| 0-251 | | | _ | | | | | | | | | Auxiliary | 0 | |
| Ceiling Load | 65 | -65 | 0 | 0 | 65 | | Ceiling Load | | -90 0 | (| | Leakage Dwn | 0 | |
| Ventilation Load | 0 | 0 | 526 | 6; | 0 | 0 | | | | -259 | | Leakage Ups | 0 | (|
| Adj Air Trans Heat | | | 0 | 0 | 0 | 0 | Adj Air Tran | | 0 | (| _ | | | |
| Dehumid. Ov Sizir | | | 0 | 0 | | | Ov/Undr Siz | | 0 | (| | | | |
| Ov/Undr Sizing | 0 | | 0 | 0: | 0 | 0 | Exhaust Hea | | | 4 | | ENGI | NEERING CI | KS |
| Exhaust Heat | | -3 | -3 0 | 0 : | | | OA Preheat | | | 9 | | | Cooling | Heating |
| Sup. Fan Heat | | 0 | 0 | 0: | | | RA Preheat | | | (| | % OA | 1.2 | 1.2 |
| Ret. Fan Heat | | 0 | 0 | 0: | | | Additional R System Plen | | | 196 | | cfm/ft² | 1.36 | 1.36 |
| Duct Heat Pkup Underfir Sup Ht Pi | | U | 0 | 0: | | | Underfir Su | | | 130 | | cfm/ton | 806.43 | 1.50 |
| Supply Air Leakag | | 0 | 0 | 0: | | | Supply Air L | | | | | ft²/ton | 594.22 | |
| Supply All Leakag | e | U | U | U : | | | Supply All L | eakage | | , | 0.00 | Btu/hr-ft² | 20.19 | -23.06 |
| Grand Total ==> | 8,121 | 555 | 9,202 | 100.00 | 7,921 | 100.00 | Grand Total | > | -9,905 | -10,510 | 100.00 | No. People | 20.19 | -23.00 |
| | | | | | | | | | | | | | | |
| | | | COIL SELE | | | | | | AREAS | | H | EATING COIL | | |
| | Total Capacity ton MBh | Sens Cap. MBh | Coil Airflow cfm | | r DB/WB/HR °F gr/lb | Leave °F | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent Lv |
| Main Cla | | | | | | 60.0 5 | . " | Floor | 450 | (,,,) | Maria 114- | | | |
| Main Clg | 0.8 9.2 | 8.5 0.0 | 618 0 | 75.5 62 | | 60.9 5 | | Floor | 456 585 | | Main Htg | -10.5 | | 68.9 87. |
| Aux Clg | 0.0 0.0 | | - | | 0.0 0.0 | | 0.0 | Part | | | Aux Htg | 0.0 | - | 0.0 0. |
| Opt Vent | 0.0 0.0 | 0.0 | 0 | 0.0 | 0.0 0.0 | 0.0 | 0.0 | Int Door | | | Preheat | 0.0 | 0 | 0.0 0. |
| | | | | | | | | ExFlr | 0 | | | | _ | |
| Total | 0.8 9.2 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 0. |
| | | | | | | | | Wall | 261 | 0 0 | Opt Vent | 0.0 | 0 | 0.0 0. |
| | | | | | | | | Ext Doo | r 0 | 0 0 | Total | -10.5 | | |

N1 Area 19 Videograbacion

| | COOL | ING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING (| COIL PEAK | | TEMF | PERATURE | S |
|-------------------------------------|----------------------------|-----------------|----------------------|-------------------------|----------|------------------------|-------------|---------------------------|---------------|---------------------|------------------------------|---------------|-----------------------|-------------------------|-------------------------|
| | ked at Time Outside Air | | | Hr: 5/18 IR: 80/80/1 | 94 | Mo/Hr: 9 OADB: 9 | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 61.6 75.5 | Heating 72.3 69.4 |
| | | pace | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil Peak | | Return | 75.5 | 69.4 |
| | Sens. | F Lat. Btu/h | Sens. + Lat Btu/h | Total Btu/h | Of Total | Sensible Btu/h | Of Total | | | Space Sens Btu/h | Tot Sens Btu/h | | Ret/OA Fn MtrTD | 75.5 0.0 | 69.1 0.0 |
| Envelope Loads | | Btu/n | Btu/n | Btu/n | (%) | Btu/n | (%) | Envelope L | nads | Btu/n | Btu/n | (%) | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite S | | 0 | 0 | 0.00 | Fn Frict | 0.0 | 0.0 |
| Skylite Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite C | | 0 | 0 | | | | |
| Roof Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Roof Cor | | 0 | 0 | | | RFLOWS | |
| Glass Solar Glass/Door Cond | | 2,324 17 | 0 | 2,324 17 | 8 | 2,324 17 | 0 | Glass So Glass/Do | | -87 | -87 | 0.00 1.44 | AI | | |
| Wall Cond | | 623 | 437 | 1.061 | 4 | 623 | 2 | Wall Con | | -745 | -1,267 | 20.92 | | Cooling | |
| Partition/Door | | 858 | | 858 | 3 | 858 | 3 | Partition/ | | -3,491 | -3,491 | | Diffuser | 2,115 | , |
| Floor | | 0 | | 0 | 0 | 0 | 0 | Floor | | 0 | 0 | | Terminal | 2,115 | |
| Adjacent Floor | | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | | 0 | 0 | 0.00 | Main Fan | 2,115 | , |
| Infiltration | | 0 | 437 | 0 | 0 | 0 | 0 | Infiltration Sub Tota | | -4,323 | 0 | | Sec Fan | 0 | |
| Sub Total ==> | | 3,822 | 437 | 4,260 | 15 | 3,822 | 15 | Sub rota | ==> | -4,323 | -4,845 | 19.91 | Nom Vent | 15 15 | |
| Internal Loads | | | | | | | | Internal Loa | ds | | | | AHU Vent Infil | 10 | |
| Lights | | 941 | 0 | 941 | 3 | 941 | 4 | Lights | | 0 | 0 | 0.00 | Min Stop/Rh | 0 | |
| People | | 900 | 0 | 900 | 3 | 500 | 2 | People | | 0 | 0 | | Return | 2.115 | |
| Misc | 20 | 0.478 | 0 | 20,478 | 74 | 20,478 | 79 | Misc | | 0 | 0 | | Exhaust | 15 | |
| Sub Total ==> | | 2.319 | 0 | 22,319 | 81 | 21,919 | 85 | Sub Tota | ==> | 0 | 0 | 0.00 | Rm Exh | 0 | |
| | | 2,010 | | 22,010 | | | | | | • | | | Auxiliary | 0 | |
| Ceiling Load | | 20 | -20 | 0 | 0 | 20 | 0 | Ceiling Loa | | -27 | .0 | | Leakage Dwn | 0 | |
| Ventilation Load | | 0 | 0 | 1,053 | 4 : | 0 | 0 | Ventilation | | 0 | -519 | | Leakage Ups | 0 | |
| Adj Air Trans Heat | | 0 | | 0 | 0 | 0 | 0 | Adj Air Tran | | 0 | 0 | | | | |
| Dehumid. Ov Sizir Ov/Undr Sizing | ng | 0 | | 0 | 0 | 0 | 0 | Ov/Undr Siz Exhaust He | | 0 | 0 | 0.00 -0.14 | | | |
| Exhaust Heat | | U | -6 | -6 | 0: | U | U | OA Preheat | | | 0 | 0.00 | ENGIN | EERING C | KS |
| Sup. Fan Heat | | | • | ő | 0: | | | RA Preheat | | | 0 | 0.00 | | Cooling | Heating |
| Ret. Fan Heat | | | 0 | 0 | 0: | | | Additional I | | | 0 | | % OA | 0.7 | 0.7 |
| Duct Heat Pkup | | | 0 | 0 | 0 | | | System Ple | | | -703 | | cfm/ft² | 15.34 | 15.34 |
| Underfir Sup Ht P | | | | 0 | 0 | | | Underfir Su | | | 0 | | cfm/ton | 918.68 | |
| Supply Air Leakag | je | | 0 | 0 | 0 | | | Supply Air | _eakage | | 0 | 0.00 | ft²/ton Btu/hr-ft² | 59.87 200.42 | -43.95 |
| Grand Total ==> | 26 | 6,161 | 412 | 27,625 | 100.00 | 25,761 | 100.00 | Grand Tota | ==> | -4,350 | -6,058 | 100.00 | No. People | 200.42 | -43.90 |
| | | | COOLING | COIL SELE | CTION | | | | | AREAS | | н | EATING COIL | | N |
| | Total Cap ton | acity MBh | Sens Cap. (MBh | Coil Airflow cfm | | r DB/WB/HR °F gr/lb | Leave °F | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent L °F |
| Main Clg | 2.3 | 27.6 | 26.3 | 2.115 | 75.5 62 | 2.0 80.3 | 61.6 5 | 7.4 79.6 | Floor | 138 | | Main Htg | -6.1 | 2,115 | 69.1 72 |
| Aux Clg | 0.0 | 0.0 | 0.0 | 0 | | 0.0 | | 0.0 | Part | 237 | | Aux Htg | 0.0 | 0 | 0.0 |
| Opt Vent | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 0.0 | 0.0 | 0.0 0.0 | Int Door | | | Preheat | 0.0 | 0 | 0.0 |
| Total | 2.3 | 27.6 | | | | | | | ExFIr Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | | | | | | | | | Wall | 214 | | Opt Vent | 0.0 | Ö | 0.0 |
| | | | | | | | | | Ext Doo | r 0 | 0 0 | Total | -6.1 | | |

| | co | OLING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING | COIL PEAK | (| | TEM | PERATURE | S | |
|------------------|-------------------------------|-----------------|--------------------|------------------------|----------|----------------------|----------|---------------------------|----------|-----------------|------------------------------|----------|---------------|----------------------|-------------------------|-----------|--------------|
| Pea | ked at [*] Outsid | | | Hr: 5/17 R: 84/83/2 | 16 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Designation 32 | gn | | SADB Ra Plenum | Cooling 57.2 75.4 | | 95.2 69.4 |
| | | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | | | Percent | Return | 75.4 | | 69.4 |
| | Sei | ıs. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | Tot S | | | Ret/OA | 75.9 | | 67.0 |
| Envelope Loads | | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | Envelope Le | ando | Btu/h | Bi | tu/h | (%) | Fn MtrTD Fn BldTD | 0.0 | | 0.0 |
| Skylite Solar | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite Sc | | 0 | | 0 | 0.00 | Fn Frict | 0.0 | | 0.0 |
| Skylite Cond | | ő | ő | ŏ | 0: | ŏ | 0: | Skylite Co | | ő | | ō | 0.00 | THITTIEL | 0.0 | | |
| Roof Cond | | ō | Ō | Ō | 0: | ō | 0: | Roof Con | | Ō | | ō | 0.00 | | | | _ |
| Glass Solar | | 2,001 | 0 | 2,001 | 6 | 2,001 | 9 | Glass So | ar | 0 | | 0 | 0.00 | A | IRFLOWS | | |
| Glass/Door Cond | | 294 | 0 | 294 | 1 | 294 | 1 : | Glass/Do | | -1,169 | | 169 | 3.28 | | Cooling | Не | eatin |
| Wall Cond | | 52 | 357 | 408 | 1; | 52 | 0 : | Wall Con | | -76 | | 604 | 1.69 | Diffuser | 1,385 | | 1.38 |
| Partition/Door | | 8,065 | | 8,065 | 25 | 8,065 | 36 | Partition/l | Door | -30,310 | -30,3 | | 85.01 | | | | |
| Floor | | 0 | | 0 | 0 | 0 | 0 | Floor | | 0 | | 0 | 0.00 | Terminal Main Fan | 1,385 1.385 | | 1,38 |
| Adjacent Floor | | 0 | 0 | 0 | 0 | 0 | 0 : | Adjacent | | 0 | | 0 | 0.00 | | -, | | 1,30 |
| Infiltration | | | 0.57 | 0 | 0 | | 0 | Infiltration Sub Total | | -31.555 | 22.0 | 0 | 0.00 89.98 | Sec Fan | C | | |
| Sub Total ==> | | 10,412 | 357 | 10,769 | 33 | 10,412 | 46 | Sub Total | | -31,333 | -32,0 | 002 | 09.90 | Nom Vent | 90 | | 9 |
| nternal Loads | | | | | | | | Internal Loa | ds | | | | | AHU Vent Infil | 90 | | 9 |
| | | 0.050 | | 0.050 | 27 | 0.050 | | | | 0 | | | 0.00 | Min Stop/Rh | | | |
| Lights People | | 8,858 5.400 | 0 | 8,858 5.400 | 27 17 | 8,858 3.000 | 39 13 | Lights People | | 0 | | 0 | 0.00 | Return | 1.385 | | 1.3 |
| Misc | | 5,400 | 0 | 5,400 | 0 | 3,000 | 0 | Misc | | 0 | | 0 | 0.00 | Exhaust | 1,360 | | 1,3 |
| Sub Total ==> | | 14,258 | 0 | 14,258 | 44 | 11.858 | 53 | Sub Total | | 0 | | 0 | 0.00 | Rm Exh | 0 | | • |
| Sub Total ==> | | 14,256 | U | 14,256 | 44 | 11,000 | 55 | SUD TOTAL | ==> | U | | U | 0.00 | Auxiliary | Č | | |
| Ceiling Load | | 157 | -157 | 0 | 0 | 157 | 1 | Ceiling Loa | d | -256 | | 0 | 0.00 | Leakage Dwn | Č | | |
| entilation Load | | 0 | 0 | 7.718 | 24 | 0 | 0 : | Ventilation | oad | 0 | -3, | 111 | 8.73 | Leakage Ups | C | | |
| dj Air Trans Hea | t | 0 | | 0 | 0 | 0 | 0 : | Adj Air Tran | s Heat | 0 | | 0 | 0 | | | | |
| Dehumid. Ov Sizi | ng | | | 0 | 0 | | | Ov/Undr Siz | ing | 0 | | 0 | 0.00 | | | | = |
| Ov/Undr Sizing | _ | 0 | | 0 | 0 | 0 | 0 : | Exhaust He | at _ | | | 51 | -0.14 | ENGIN | NEERING C | KS | |
| xhaust Heat | | | -31 | -31 | 0 : | | | OA Preheat | | | | 0 | 0.00 | | | | |
| up. Fan Heat | | | | 0 | 0; | | | RA Preheat | | | | 0 | 0.00 | % OA | Cooling | Hea | |
| tet. Fan Heat | | | 0 | 0 | 0 : | | | Additional F | | | | 0 513 | 0.00 1.44 | cfm/ft² | 6.5 1.07 | | 1.0 |
| uct Heat Pkup | | | 0 | 0 | 0: | | | System Ple | | | -1 | 0 | 0.00 | | 508.13 | | 1.0 |
| nderfir Sup Ht P | | | 0 | 0 | 0 | | | Underfir Su | | | | 0 | | cfm/ton ft²/ton | | | |
| Supply Air Leaka | je | | U | U | U : | | | Supply Air | _eakage | | | U | 0.00 | Btu/hr-ft² | 476.01 25.21 | 2 | 7.4 |
| rand Total ==> | | 24,827 | 168 | 32,713 | 100.00 | 22,427 | 100.00 | Grand Total | > | -31,811 | -35,6 | 656 | 100.00 | No. People | 12 | -2 | .7.40 |
| | | | COOLING | COIL SELE | стом | | | | | AREAS | 3 | ٦٢ | HE | EATING COIL | SELECTIO | N | = |
| | Total ton | Capacity MBh | Sens Cap. (MBh | Coil Airflow cfm | | DB/WB/HR °F gr/lb | | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | | Capacity MBh | Coil Airflow cfm | Ent °F | 1 |
| lain Cla | 2.7 | 32 7 | 23.3 | 1.385 | 75.9 63 | 6 88.4 | 57.2 55 | 5.3 77.1 | Floor | 1,298 | | ١, | Main Hta | -35.7 | 1,385 | 67.0 | g |
| ux Clg | 0.0 | 0.0 | 0.0 | 0,555 | | 0.0 | | 0.0 | Part | 2,056 | | | Aux Htg | 0.0 | 0,000 | 0.0 | |
| pt Vent | 0.0 | 0.0 | 0.0 | 0 | | 0.0 | | 0.0 | Int Door | -, | | | Preheat | 0.0 | 0 | 0.0 | |
| | | | | | | | • | | ExFir | ő | | П | | 2.0 | | | |
| otal | 2.7 | 32.7 | | | | | | | Roof | Ō | 0 0 | | Humidif | 0.0 | 0 | 0.0 | |
| | | | | | | | | | Wall | 216 | 129 60 | | Opt Vent | 0.0 | 0 | 0.0 | |
| | | | | | | | | | Ext Door | . 0 | 0 0 | 11: | Total | -35.7 | | | |

N1 Area 21 Receso Titular

| Outside Air: OADB/MBHR. 78 / 78 / 181 OADB. 78 OADB. 32 Space Sens Lat | | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING (| COIL PEAK | | TEM | PERATURE | S |
|--|-------------------|--------------|-------------|-------|----------|-----------|----------|--------------|----------|-------------|-----------|------------|------------------|--------------|-----------------|
| Sease | | | | | 81 | | | | | | | | | 59.8 | Heating 76.4 |
| Envelope Loads | | Sens. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | : | | Space Sens | Tot Sen | s Of Total | Return Ret/OA | 75.4 75.5 | 69.4 68.4 |
| Skyline Cond | Envelone Loads | Btu/n | Btu/n | Btu/n | (%) | Btu/n | (%) | | nads | Btu/n | Btu/i | 1 (%) | | | 0.0 |
| Roof Cond | | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | 0.00 | Fn Frict | 0.0 | 0.0 |
| Cales Solar 1,589 0 1,589 32 1,589 38 Glass Solar 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | |
| CalisaryDoor Cond | | | | | | | | | | | | | II . | 1051 01410 | |
| Vali Cond | | | | | | | | | | | | | A | IRFLOWS | |
| Partificor 258 5 258 6 Partificor 258 258 6 Partificor 258 258 258 6 Partificor 258 | | | | | | | | | | | | | | Cooling | Heatin |
| Floor | | | 100 | | | | | | | | | | Diffuser | 300 | 30 |
| Adjacent Floor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | J00I | | | | Terminal | 300 | 30 |
| Infilitation 0 | | ő | 0 | | | | | | Floor | | | | Main Fan | 300 | 30 |
| Internal Loads | | ő | • | | | Ö | | | | | | | Sec Fan | 0 | |
| Internal Loads | Sub Total ==> | 2,016 | 186 | 2,202 | 44 | 2,016 | 49 | Sub Total | ==> | -1,735 | -1,959 | 89.87 | Nom Vent | 8 | |
| Lights | | | | | : | | | : | | | | | AHU Vent | 8 | |
| People | Internal Loads | | | | | | | Internal Loa | ds | | | | Infil | 0 | |
| People | Lights | 675 | 0 | 675 | 14 | 675 | 16 | Lights | | 0 | | 0.00 | Min Stop/Rh | 0 | |
| Sub 70tal ==> 2,320 0 2,320 47 2,120 51 Sub 70tal ==> 0 0 0 0 0 0 0 0 0 0 | | 450 | 0 | | | 250 | 6 | | | 0 | | 0.00 | Return | 300 | 30 |
| Colling Load 13 | Misc | 1,195 | 0 | 1,195 | 24 | 1,195 | 29 | Misc | | 0 | | 0.00 | Exhaust | 8 | |
| Celling Load | Sub Total ==> | 2.320 | 0 | 2.320 | 47 | 2.120 | 51 | Sub Total | ==> | 0 | | 0.00 | Rm Exh | 0 | |
| Ventilation Load 0 | | _, | | -, | | -, | | | | | | | | | |
| Adj Air Trans Heat 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Ceiling Load | | | | | | | | | | | | | | |
| Dehumid. Ov Sizing | | | 0 | 456 | | | | | | | | | Leakage Ups | 0 | |
| Coval Cova | | | | | | 0 | 0 | | | | | | | | |
| Exhaust Heat | | | | | | | | | | 0 | | | | | |
| Sup. Fan Heat | | 0 | | | | 0 | 0 | | | | | | ENGIN | NEERING CI | KS |
| Ref. Fan Heat | | | -3 | | | | | | | | | | | Cooling | Heating |
| Comparison Com | | | 0 | | | | | | | | | | % OA | | 2.5 |
| Underfir Sup Ht Pkup Supply Air Leakage 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | 3.04 |
| Supply Air Leakage | | kun | 0 | | | | | | | | | | | | |
| Grand Total ==> 4,348 170 4,975 100.00 4,148 100.00 Grand Total ==> -1,755 -2,180 100.00 Btuin-ret 50.31 -22.0 | | | 0 | | | | | | | | | | | | |
| A A A A A A A A A A | ouppry rui counug | ,• | | | | | | ouppiy rui i | Lountago | | | 0.00 | | | -22.04 |
| Total Capacity Sens Cap. Coll Airflow Enter DB/WB/HR Leave DB/WB/HR Gross Total Glass R¹ (%) Capacity Coll Airflow Enter DB/WB/HR Capacity Coll Airflow Capacity Coll Airflow Enter DB/WB/HR Capacity Coll Airflow Capacity Coll Airflow Capacity Coll Airflow Capacity Coll Airflow Capacity Capac | Grand Total ==> | 4,348 | 170 | 4,975 | 100.00 | 4,148 | 100.00 | Grand Total | ==> | -1,755 | -2,18 | 100.00 | No. People | 1 | |
| ton MBh MBh cfm "F "F gr/lb "F | | | | | | | | | | | | Н | | | |
| Aux Clg 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0. | | | | | | | | | | Gross Total | | | | | |
| Aux Clg 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0. | Main Clg | 0.4 5.0 | 4.3 | 300 | 75.5 62. | .3 82.0 | 59.8 5 | 6.5 78.1 | Floor | 99 | | Main Htg | -2.2 | 300 | 68.4 76 |
| Total 0.4 5.0 ExFir OROF 0 0 0 0 Humidif 0.0 | Aux Clg | 0.0 | 0.0 | 0 | 0.0 0. | .0 0.0 | 0.0 | 0.0 0.0 | Part | | | | | 0 | |
| Total 0.4 5.0 Roof 0 0 0 Humidif 0.0 0 0.0 Wall 92 32 35 Opt Vent 0.0 0 0.0 | Opt Vent | 0.0 0.0 | 0.0 | 0 | 0.0 0. | .0 0.0 | 0.0 | 0.0 0.0 | | | | Preheat | 0.0 | 0 | 0.0 |
| Wali 92 32 35 Opt Vent 0.0 0 0.0 | Total | 0.4 5.0 | | | | | | | | | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | rour | 0.4 5.0 | | | | | | | | | | | | | |
| | | | | | | | | | | | 0 0 | Total | -2.2 | · · | |

Room Checksums

| | COOLING | 3 C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PE | AK | | TEM | PERATURE | s |
|-------------------------------------|------------------------------|-----|---------------------|-----------------------------|----------|------------------------|-------------|----------------------------|----------|-------------------|----------------|---------|--------------|-----------------------|-------------------------|--------------------------|
| Pea | ked at Time: Outside Air: | | Mo/H OADB/WB/HF | r: 5 / 16 R: 86 / 85 / 2 | 31 | Mo/Hr: OADB: | | | | Mo/Hr: H OADB: | Heating De | esign | | SADB Ra Plenum | Cooling 55.7 75.3 | Heating 100.9 69.4 |
| | Space | | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coi | il Peak | Percent | Return | 75.3 | 69.4 |
| | Sens. + La | | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | To | | Of Total | Ret/OA | 76.4 | 65.5 |
| | Btu | /h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | | Btu/h | (%) | Fn MtrTD | 0.0 | 0.0 |
| Envelope Loads | | 0 | | | | 0 | | Envelope L | | 0 | | 0 | | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar | | | 0 | 0 | 0: | | 0 | Skylite So | | | | | 0.00 | Fn Frict | 0.0 | 0.0 |
| Skylite Cond | | 0 | 0 | 0 | 0: | 0 | 0 | Skylite Co | | 0 | | 0 | 0.00 | | | |
| Roof Cond | | 0 | 0 | 0 | | 0 | 0 | Roof Con | | 0 | | 0 | 0.00 | | IRFLOWS | |
| Glass/Door Cond | | 0 | 0 | 0 | 0: | 0 | 0 | Glass So Glass/Do | | 0 | | 0 | 0.00 | ^ | | |
| Wall Cond | | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | 0 | 0.00 | | Cooling | Heatin |
| Partition/Door | 49 | | U | 493 | 23 | 531 | 42 | Partition/ | | -1.997 | | -1.997 | 86.60 | Diffuser | 71 | 7 |
| Floor | | 0 | | 493 | 0: | 0 | 42 | Floor | Door | -1,997 | | 0 | 0.00 | Terminal | 71 | 7 |
| Adjacent Floor | | 0 | 0 | ő | 0: | 0 | 0 | Adjacent | Floor | 0 | | 0 | 0.00 | Main Fan | 71 | - 7 |
| Infiltration | | ň | · · | ő | 0: | ő | ő | Infiltration | | 0 | | 0 | 0.00 | Sec Fan | 0 | |
| Sub Total ==> | 49 | 13 | 0 | 493 | 23: | 531 | 42 | Sub Total | | -1.997 | | -1.997 | 86.60 | Nom Vent | | |
| Sub Total> | 40 | | U | 400 | 23 | 551 | 42 | Oub rolu | | -1,007 | | 1,007 | 00.00 | AHU Vent | 8 | |
| nternal Loads | | | | | | | | Internal Loa | rds | | | | | | 0 | |
| | | | | | | | | | ido | | | | | Infil | 0 | |
| Lights | 46 | | 0 | 465 | 22 | 465 | 37 | Lights | | 0 | | 0 | 0.00 | Min Stop/Rh | | 7 |
| People | 45 | | 0 | 450 | 21 | 250 | 20 | People | | 0 | | 0 | 0.00 | Return | 71 8 | , |
| Misc | | 0 | 0 | 0 | 0 | 0 | 0 | Misc | | 0 | | 0 | 0.00 | Exhaust | 8 | |
| Sub Total ==> | 91 | 5 | 0 | 915 | 43 | 715 | 57 | Sub Total | ==> | 0 | | 0 | 0.00 | Rm Exh | 0 | |
| | | _ | _ | _ | | | | | | | | | | Auxiliary | | |
| Ceiling Load Ventilation Load | | 7 | -7 | 0 | 0 | 8 | | Ceiling Loa | | -13 0 | | 0 | 0.00 | Leakage Dwn | 0 | |
| | | 0 | 0 | 722 | 34 | 0 | 0 | Ventilation | | | | -259 | 11.24 | Leakage Ups | 0 | |
| Adj Air Trans Hea | | 0 | | 0 | 0 | 0 | 0 | Adj Air Tran | | 0 | | 0 | 0 | | | |
| Dehumid. Ov Sizii | | | | 0 | 0 ; | | | Ov/Undr Siz | | 0 | | 0 | 0.00 | | | |
| Ov/Undr Sizing | | 0 | | 0 | 0: | 0 | 0 | Exhaust He | | | | 4 | -0.18 | ENGIN | NEERING C | KS |
| xhaust Heat | | | -2 | -2 | 0: | | | OA Preheat | | | | 0 | 0.00 | | Cooling | Heating |
| Sup. Fan Heat | | | | 0 | 0: | | | RA Preheat | | | | 0 | 0.00 | % OA | 10.5 | 10.5 |
| Ret. Fan Heat | | | 0 | 0 | 0: | | | Additional F System Ple | | | | -54 | 0.00 2.34 | cfm/ft² | 1.05 | 1.05 |
| Duct Heat Pkup Jnderfir Sup Ht P | luum. | | U | 0 | 0: | | | | | | | -04 | 0.00 | cfm/ton | 402.96 | 1.00 |
| | | | 0 | 0 | 0: | | | Underfir Su | | | | 0 | 0.00 | ft²/ton | 384.24 | |
| Supply Air Leakaç | je | | U | 0 | 0 : | | | Supply Air | Leakage | | | U | 0.00 | tt⁴/ton Btu/hr∙ft² | 384.24 | -33.86 |
| Grand Total ==> | 1,41 | 4 | -9 | 2,127 | 100.00 | 1,255 | 100.00 | Grand Total | / ==> | -2,011 | | -2,306 | 100.00 | No. People | 1 | -33.00 |
| | | | COOLING | | | | | | | AREAS | | | HE | EATING COIL | | |
| | Total Capaci ton ME | | Sens Cap. Co MBh | oil Airflow cfm | | r DB/WB/HR °F gr/lb | Leave °F | DB/WB/HR °F gr/lb | | Gross Total | Glass ft² (| %) | | Capacity MBh | Coil Airflow cfm | Ent L °F |
| Main Clg | 0.2 2 | 1 | 1.3 | 71 | 76.4 65 | 0.0 95.4 | 55.7 5 | 4.7 76.7 | Floor | 68 | | | Main Htg | -2.3 | 71 | 65.5 10 |
| Aux Cla | 0.0 0 | | 0.0 | , i | | 0.0 | | 0.0 | Part | 135 | | | Aux Htg | 0.0 | Ö | 0.0 |
| opt Vent | 0.0 0 | | 0.0 | 0 | | 0.0 | | 0.0 0.0 | Int Door | 0 | | | Preheat | 0.0 | 0 | 0.0 |
| pr vent | 0.0 0 | U | 0.0 | U | 0.0 | 0.0 | 0.0 | 0.0 | ExFlr | 0 | | - 11 | rielleat | 0.0 | U | 0.0 |
| otal | 0.2 2 | 1 | | | | | | | Roof | 0 | 0 | 0 | Humidif | 0.0 | 0 | 0.0 |
| | 0.2 2 | | | | | | | | Wall | 0 | 0 | | Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | | Ext Door | - | 0 | - 11 | Total | -2.3 | 0 | 5.0 |
| | | | | | | | | | | | U | UI | | | | |

By Trane

N1 Area 23 Exclusa testigo

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | TEMI | PERATURE | s |
|-------------------------------------|------------------------------|-----------------------|------------------------------|----------|---------------------|----------|------------------------|----------|-------------------|----------------------|---------------------|--------------------------|-----------------|------------------|
| Pea | ked at Time: Outside Air: | Mo/H OADB/WB/H | Hr: 5 / 16 R: 86 / 85 / 2 | 31 | Mo/Hr: OADB: | | | | Mo/Hr: I OADB: | Heating Design 32 | | SADB | Cooling 55.7 | Heating 100.8 |
| | _ | | | : | _ | _ | | | | | _ | Ra Plenum | 75.3 | 69.4 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net | Percent | Space | Percent | | | Space Peak | | Percent | Return | 75.3 | 69.4 |
| | | | Total | Of Total | Sensible | Of Total | | | Space Sens | | Of Total | Ret/OA | 76.4 0.0 | 65.4 0.0 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/h | (%) | Fn MtrTD | | |
| Envelope Loads | | 0 | | | 0 | | Envelope L | | 0 | c | | Fn BldTD | 0.0 | 0.0 |
| Skylite Solar | 0 | 0 | 0 | 0: | 0 | 0 | Skylite So | | 0 | , i | | Fn Frict | 0.0 | 0.0 |
| Skylite Cond Roof Cond | 0 | 0 | 0 | 0: | 0 | 0 | Skylite Co Roof Con | | 0 | C | | | | |
| | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | | | RFLOWS | |
| Glass/Door Con- | | 0 | 0 | 0: | 0 | 0 | Glass Sol Glass/Do | | 0 | | | ^ | | |
| Wall Cond | | 0 | 0 | 0: | 0 | 0 | Wall Con | | 0 | | | | Cooling | Heati |
| | | U | | | 527 | | | | -1.980 | | | Diffuser | 71 | |
| Partition/Door Floor | 488 0 | | 488 0 | 23: | 527 | 42 | Partition/I | J00F | -1,980 | -1,980 | | Terminal | 71 | |
| | | | | | | | | F1 | | | | Main Fan | 71 | |
| Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | | 0 | 0 | | | ,, | |
| Infiltration | | _ | 0 | 0 | | | Infiltration | | | | | Sec Fan | 0 | |
| Sub Total ==> | 488 | 0 | 488 | 23: | 527 | 42 | Sub Total | ==> | -1,980 | -1,980 | 86.51 | Nom Vent | 8 | |
| | | | | | | | | | | | | AHU Vent | 8 | |
| nternal Loads | | | | | | | Internal Loa | ds | | | | Infil | 0 | |
| Lights | 465 | 0 | 465 | 22 | 465 | 37 | Lights | | 0 | C | 0.00 | Min Stop/Rh | 0 | |
| People | 450 | 0 | 450 | 21 | 250 | 20 | People | | Ō | Ċ | 0.00 | Return | 71 | |
| Misc | 0 | 0 | 0 | 0 | 0 | 0 | Misc | | 0 | C | 0.00 | Exhaust | 8 | |
| Sub Total ==> | 915 | 0 | 915 | 43 | 715 | 57 | Sub Total | | 0 | C | 0.00 | Rm Exh | 0 | |
| oub rotar === | 313 | 0 | 313 | 40 | 713 | 37 | Sub rotal | | U | | 0.00 | Auxiliary | 0 | |
| Ceiling Load | 7 | -7 | 0 | 0 | 8 | 1 | Ceiling Loa | 1 | -13 | C | 0.00 | Leakage Dwn | Ö | |
| Ventilation Load | ó | 0 | 722 | 34 | 0 | | Ventilation | | 0 | -259 | | Leakage Ups | 0 | |
| Adi Air Trans Hea | | U | 0 | 0: | 0 | | Adi Air Tran | | 0 | 200 | | Leakage Ops | | |
| Dehumid. Ov Sizi | | | | | U | 0 | Ov/Undr Siz | | 0 | Č | | | | |
| Denumia. Ov Sizi Ov/Undr Sizing | | | 0 | 0 | | | Exhaust He | | U | 4 | | | | |
| Exhaust Heat | 0 | -2 | 0 -2 | 0: | 0 | 0 | OA Preheat | | | č | | ENGIN | IEERING C | KS |
| Sup. Fan Heat | | -2 | -2 | 0: | | | RA Preheat | | | C | | | Cooling | Heatin |
| Sup. Fan Heat Ret. Fan Heat | | 0 | 0 | 0: | | | Additional F | | | | | % OA | 10.5 | 10. |
| | | 0 | 0 | 0: | | | System Ple | | | -54 | | cfm/ft² | 1.04 | 1.0 |
| Duct Heat Pkup Underfir Sup Ht P | M | 0 | 0 | 0: | | | Underfir Su | | | | | cfm/ton | 401.92 | 1.0 |
| | | 0 | 0 | 0: | | | | | | | | ft²/ton | 385.03 | |
| Supply Air Leaka | ge | 0 | U | U; | | | Supply Air | _eakage | | | 0.00 | | | 22.6 |
| Grand Total ==> | 1.410 | -9 | 2.123 | 100.00 | 1.250 | 400.00 | Grand Total | | -1.993 | -2,288 | 100.00 | Btu/hr·ft² No. People | 31.17 | -33.60 |
| Grand Total> | 1,410 | -9 | 2,123 | 100.00 | 1,250 | 100.00 | Grand Total | | -1,993 | -2,200 | 100.00 | No. People | | |
| | | COOLING | | | | | | | AREAS | | Н | EATING COIL | | |
| | Total Capacity | | Coil Airflow | | r DB/WB/HR | | DB/WB/HR | | Gross Total | Glass | | | Coil Airflow | Ent I |
| | ton MBh | MBh | cfm | °F | °F gr/lb | °F | °F gr/lb | 1 | | ft² (%) | | MBh | cfm | °F |
| Main Clg | 0.2 2.1 | 1.3 | 71 | 76.4 65 | 5.0 95.5 | 55.7 54 | .7 76.6 | Floor | 68 | | Main Htg | -2.3 | 71 | 65.4 10 |
| Nam Cig Nux Cig | 0.0 0.0 | 0.0 | /1 | | 5.0 95.5 0.0 0.0 | | 0.0 | Part | 134 | | Main Hig Aux Hig | -2.3 0.0 | 71 | 0.0 |
| | | | | | | | | | | | | | | |
| Opt Vent | 0.0 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | Int Door | | | Preheat | 0.0 | 0 | 0.0 |
| | | | | | | | - 1 | ExFlr | 0 | | | | _ | |
| Total | 0.2 2.1 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | | | | | | | - 1 | Wall | 0 | 0 0 | Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | Ext Door | r 0 | 0 0 | Total | -2.3 | | |

| , | COOLING | OIL PEAK | | | CLG SPACE | PEAK | | HEATING CO | DIL PEAK | | TEMP | RATURE | S |
|----------------------|------------------------|---------------------|-----------------------|-----------|-----------------|-----------|----------------------|---------------------|--------------------|----------|---------------------|-----------------|-----------------|
| | at Time: tside Air: | Mo/Hr OADB/WB/HR | r: 5/16 t: 86/85/2 | 31 | Mo/Hr: OADB: | | | Mo/Hr: H OADB: 3 | eating Design 2 | | SADB | Cooling 58.1 | Heating 79.6 |
| | | | | - : | | | | | | | Ra Plenum | 75.3 | 69.4 |
| | Space | Plenum | Net | Percent : | Space | Percent : | | Space Peak | Coil Peak | Percent | Return | 75.3 | 69. |
| | Sens. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | Space Sens | Tot Sens | Of Total | Ret/OA | 75.8 | 67. |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | 0. |
| Envelope Loads | | | | : | | | Envelope Loads | | | | Fn BldTD | 0.0 | 0. |
| Skylite Solar | 0 | 0 | 0 | 0: | 0 | 0 : | | 0 | 0 | 0.00 | Fn Frict | 0.0 | 0. |
| Skylite Cond | 0 | 0 | 0 | 0 | 0 | 0 | Skylite Cond | 0 | 0 | 0.00 | | | |
| Roof Cond | 0 | 0 | 0 | 0 | 0 | 0 | Roof Cond | 0 | 0 | 0.00 | | | |
| Glass Solar | 0 | 0 | 0 | 0 : | 0 | 0 | Glass Solar | 0 | 0 | 0.00 | AIR | FLOWS | |
| Glass/Door Cond | 0 | 0 | 0 | 0; | 0 | 0 ; | Glass/Door Cond | 0 | 0 | 0.00 | | Cooling | Heati |
| Wall Cond | 0 | 0 | 0 | 0 : | 0 | 0 : | Wall Cond | 0 | 0 | 0.00 | Diffuser | 159 | 1 |
| Partition/Door | 337 | | 337 | 10 | 364 | 15 | Partition/Door | -1,367 | -1,367 | 79.00 | | | |
| Floor | 0 | | 0 | 0 | 0 | 0 | Floor | 0 | 0 | 0.00 | Terminal | 159 159 | 1 |
| Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent Floor | 0 | 0 | 0.00 | Main Fan | | 1 |
| Infiltration | 0 | | 0 | 0 | 0 | 0 | Infiltration | 0 | 0 | 0.00 | Sec Fan | 0 | |
| Sub Total ==> | 337 | 0 | 337 | 10: | 364 | 15 : | Sub Total ==> | -1,367 | -1,367 | 79.00 | Nom Vent | 8 | |
| | | | | | | | | | | | AHU Vent | 8 | |
| Internal Loads | | | | | | | Internal Loads | | | | Infil | 0 | |
| Lights | 633 | 0 | 633 | 19 | 633 | 26 | Lights | 0 | 0 | 0.00 | Min Stop/Rh | 0 | |
| People | 450 | Ō | 450 | 13 | 250 | 10 | | Ō | Ō | 0.00 | Return | 159 | 1 |
| Misc | 1,195 | 0 | 1,195 | 36 | 1,195 | 49 | Misc | 0 | 0 | 0.00 | Exhaust | 8 | |
| Sub Total ==> | 2.278 | 0 | 2.278 | 68 | 2.078 | 85 | Sub Total ==> | 0 | 0 | 0.00 | Rm Exh | 0 | |
| Oub /Olai | 2,270 | | 2,270 | | 2,010 | 00 | OUD TOTAL | · · | 0 | 0.00 | Auxiliary | 0 | |
| Ceiling Load | 9 | -9 | 0 | 0 | 11 | 0 | Ceiling Load | -18 | 0 | 0.00 | Leakage Dwn | 0 | |
| Ventilation Load | ō | 0 | 722 | 22 | 0 | 0 | Ventilation Load | 0 | -259 | 14.98 | Leakage Ups | ō | |
| Adj Air Trans Heat | 0 | | 0 | 0 | o o | 0 | Adj Air Trans Heat | 0 | 0 | 0 | Lounago opo | | |
| Dehumid. Ov Sizing | Ü | | 0 | 0 | | | Ov/Undr Sizing | 0 | 0 | 0.00 | | | |
| Ov/Undr Sizing | 0 | | 0 | 0 | 0 | | Exhaust Heat | 0 | 4 | -0.25 | ENCINE | ERING CH | / C |
| Exhaust Heat | U | -2 | -2 | ő: | U | 0 | OA Preheat Diff. | | 0 | 0.00 | ENGINE | EKING C | 13 |
| Sup. Fan Heat | | - | 0 | 0: | | | RA Preheat Diff. | | 0 | 0.00 | | Cooling | Heatin |
| Ret. Fan Heat | | 0 | 0 | 0: | | | Additional Reheat | | 0 | 0.00 | % OA | 4.7 | 4. |
| Duct Heat Pkup | | ŏ | ŏ | 0: | | | System Plenum Heat | | -108 | 6.26 | cfm/ft ² | 1.71 | 1.7 |
| Underfir Sup Ht Pkur | , | - | Ō | 0 | | | Underfir Sup Ht Pkup | | 0 | 0.00 | cfm/ton | 572.43 | |
| Supply Air Leakage | | 0 | 0 | 0: | | | Supply Air Leakage | | 0 | 0.00 | ft²/ton | 333.79 | |
| | | | | | | | | | | 5.00 | Btu/hr-ft² | 35.95 | -18.6 |
| Grand Total ==> | 2,624 | -11 | 3,335 | 100.00 | 2,453 | 100.00 | Grand Total ==> | -1,386 | -1,731 | 100.00 | No. People | 1 | |
| | | COOLING C | OII SELI | ECTION | | | | AREAS | | ш | EATING COIL S | EL ECTIO | NI . |

| | | | COOLING | G COIL SELE | спог | 1 | | | | | | AREAS | | | HEA. | TING COIL | SELECTION | ON | |
|----------|----------------|-----------------|------------------|---------------------|----------|------|-----------------|-----|-------|-----------------|----------|-------------|--------------|------|----------|-----------------|---------------------|-----|------|
| | Total C ton | Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | En °E | | /WB/HR ar/lb | Lea | ve DB | /WB/HR ar/lb | ' | Gross Total | Glass ft² | (%) | | Capacity MBh | Coil Airflow cfm | Ent | |
| | ton | WIDII | WIDII | Cilli | | | ginib | | | 2 | | | 11 | (70) | | WiDii | | | |
| Main Clg | 0.3 | 3.3 | 2.5 | 159 | 75.8 | 63.3 | 86.6 | | 55.9 | 78.4 | Floor | 93 | | | Main Htg | -1.7 | | | 79.6 |
| Aux Clg | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | Part | 93 | | | Aux Htg | 0.0 | 0 | 0.0 | 0.0 |
| Opt Vent | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | Int Door | 0 | | | Preheat | 0.0 | 0 | 0.0 | 0.0 |
| | | | | | | | | | | | ExFlr | 0 | | | | | | | |
| Total | 0.3 | 3.3 | | | | | | | | | Roof | 0 | 0 | 0 | Humidif | 0.0 | 0 | 0.0 | 0.0 |
| | | | | | | | | | | | Wall | 0 | 0 | 0 | Opt Vent | 0.0 | 0 | 0.0 | 0.0 |
| | | | | | | | | | | | Ext Door | . 0 | 0 | 0 | Total | -1.7 | | | |

N1 Area 25 Sala Juicio Oral 1

| | COOLING | COIL PEAK | | C | LG SPACE | PEAK | | | HEATING (| COIL PEAK | | TEME | PERATURE | s |
|--|--------------------------------|--------------------------------|----------------------------------|----------------------------|----------------------------|----------------------------|--|-------------------------|-----------------------------------|--------------------------------|------------------------------|------------------------------------|---------------------------------|-------------------------|
| | ked at Time: Outside Air: | | o/Hr: 5 / 15 /HR: 87 / 86 / 2 | 37 | Mo/Hr: OADB: | | : | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 53.8 75.3 | Heating 81.7 69.4 |
| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) | Space Sensible Btu/h | Percent Of Total (%) | : | | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Of Total | Return Ret/OA Fn MtrTD | 75.3 77.4 0.0 | 69.4 62.5 0.0 |
| Envelope Loads Skylite Solar | 0 | 0 | 0 | 0 | 0 | 0 | Envelope Le Skylite Se | olar | 0 | 0 | 0.00 | Fn BldTD Fn Frict | 0.0 | 0.0 |
| Skylite Cond Roof Cond Glass Solar | 0 0 0 | 0 0 0 | 0 0 0 | 0 : 0 : 0 : | 0 0 0 | 0 0 0 | Skylite Co Roof Con Glass So | d | 0 | 0 | 0.00 | AI | RFLOWS | |
| Glass/Door Cond Wall Cond | 408 | 0 215 | 0 624 | 0: | 0 1,790 | 0 | | i | -2,089 | -3,212 | 0.00 10.00 | Diffuser | Cooling 1,837 | |
| Partition/Door Floor Adjacent Floor | 3,292 0 0 | 0 | 3,292 0 0 | 4: 0: 0: | 4,303 0 0 | 12 0 0 | Floor | | -17,298 0 0 | -17,298 0 0 | 53.84 0.00 0.00 | Terminal Main Fan | 1,837 1,837 | 1,83 |
| Infiltration Sub Total ==> | 0 3,700 | 215 | 0 3,916 | 0 5 | 6,093 | 0 17 | Infiltration Sub Total | | -19,388 | -20,510 | 0.00 63.84 | Sec Fan Nom Vent | 0 338 | 33 |
| Internal Loads Lights | 7.701 | 0 | 7.701 | 10 | 7.701 | 22 | Internal Loa | ds | 0 | 0 | 0.00 | AHU Vent Infil Min Stop/Rh | 338 0 0 | 1 |
| People Misc | 20,250 10,239 | 0 | 20,250 10,239 | 27 13 | 11,250 10,239 | 32 29 | People | | 0 | 0 | 0.00 | Return Exhaust | 1,837 338 | 1,83 33 |
| Sub Total ==> Ceiling Load | 38,190 91 | -91 | 38,190 0 | 50 | 29,190 160 | 82 0 | Sub Total | | -223 | 0 | 0.00 | Rm Exh Auxiliary Leakage Dwn | 0 | , , |
| Ventilation Load Adj Air Trans Heat | 0 | -91 0 | 34,039 0 | 45: 0: | 0 | 0 | Ventilation | oad | -223 0 0 | -11,668 0 | 36.32 | Leakage Ups | 0 | |
| Dehumid. Ov Sizir Ov/Undr Sizing Exhaust Heat | n g 0 | -78 | 0 0 -78 | 0: | 0 | 0 | Ov/Undr Siz Exhaust He OA Preheat | at | 0 | 0 191 0 | -0.60 | ENGIN | IEERING C | KS |
| Sup. Fan Heat Ret. Fan Heat | | 0 | 0 | 0: | | | : RA Preheat : Additional F | Diff. Reheat | | 0 0 -141 | 0.00 | % OA | Cooling 18.4 1.63 | Heating 18.4 1.63 |
| Duct Heat Pkup Underfir Sup Ht P Supply Air Leakag | | 0 | 0 0 0 | 0: 0: 0: | | | System Plea Underfir Su Supply Air | p Ht Pkup | | 0 | 0.00 | cfm/ft² cfm/ton ft²/ton | 289.76 177.98 | 1.03 |
| Grand Total ==> | 41,981 | 47 | 76,067 | 100.00 | 35,443 | 100.00 | Grand Total | ==> | -19,610 | -32,127 | 100.00 | Btu/hr-ft² No. People | 67.42 45 | -28.48 |
| | Total Capacity ton MBh | | GOIL SELE Coil Airflow | Enter DE | /WB/HR gr/lb | Leave °F | e DB/WB/HR °F gr/lb | | AREAS Gross Total | Glass ft² (%) | HI | EATING COIL Capacity MBh | SELECTIO Coil Airflow cfm | Ent Ly |
| Main Clg Aux Clg | 6.3 76.1 0.0 0.0 | 36.6 0.0 | 1,837 0 | 77.4 67.5 0.0 0.0 | 108.5 0.0 | 53.8 5 0.0 | 3.5 74.2 0.0 0.0 | Floor Part | 1,128 1,173 | | Main Htg Aux Htg | -32.1 0.0 | 1,837 0 | 62.5 81 0.0 0 |
| Opt Vent | 0.0 0.0 | 0.0 | 0 | 0.0 0.0 | 0.0 | 0.0 | 0.0 0.0 | Int Door | Ō | | Preheat | 0.0 | 0 | 0.0 |
| Total | 6.3 76.1 | | | | | | | Roof Wall Ext Doo | 0 461 r 0 | 0 0 | Humidif Opt Vent Total | 0.0 0.0 -32.1 | 0 | 0.0 0 |

Room Checksums

By Trane

| | COOLING | COIL | PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | TEMI | PERATURE | S |
|--------------------------------|------------------------------|-------|--------------------|--------------------------------|---------------------|-------------------|---------------------|--------------------------|--------------|--------------------------|------------------------------|---------------------|----------------------|-------------------------|----------------|
| | ked at Time: Outside Air: | 0. | | Hr: 5 / 15 IR: 87 / 86 / 2: | 37 | Mo/Hr: OADB: | | | | Mo/Hr: I OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 52.2 75.3 | Heat 8 6 |
| | Spac Sens. + La | . Sen | Plenum s. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | Tot Sens | | Return Ret/OA | 75.3 77.6 | 6 |
| | Btu | h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | |
| nvelope Loads Skylite Solar | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite So | | 0 | 0 | 0.00 | Fn BldTD Fn Frict | 0.0 | |
| Skylite Cond | | 0 | 0 | 0 | 0: | 0 | 0 | Skylite Co | | 0 | C | | FILFICE | 0.0 | |
| Roof Cond | | 0 | 0 | 0 | 0: | 0 | 0 | Roof Con | | 0 | č | | | | |
| Glass Solar | | 0 | 0 | 0 | 0; | 0 | 0 | Glass Sol | | 0 | Č | | Δ1 | RFLOWS | |
| Glass/Door Cond | | Ď | ŏ | ŏ | 0: | ő | ő | Glass/Do | | ŏ | č | | | | |
| Wall Cond | 1,37 | 3 | 742 | 2,115 | 3: | 1,412 | 4 | Wall Con | 1 | -2,045 | -3,144 | | | Cooling | |
| Partition/Door | 3,24 | 9 | | 3,249 | 4: | 4,542 | 13 | Partition/[| Door | -17,072 | -17,072 | 53.75 | Diffuser | 1,687 | 1 |
| Floor | | 0 | | 0 | 0 : | 0 | 0 | Floor | | 0 | | 0.00 | Terminal | 1,687 | 1 |
| Adjacent Floor | | D | 0 | 0 | 0 | 0 | 0 | Adjacent | | 0 | C | | Main Fan | 1,687 | |
| Infiltration | | 0 | | 0 | 0 : | 0 | 0 | Infiltration | | 0 | C | | Sec Fan | 0 | |
| Sub Total ==> | 4,62 | 2 | 742 | 5,364 | 7: | 5,955 | 17 | Sub Total | ==> | -19,117 | -20,216 | 63.64 | Nom Vent | 338 | |
| | | | | | | | | | | | | | AHU Vent | 338 | |
| ternal Loads | | | | | | | | Internal Loa | ds | | | | Infil | 0 | |
| _ights | 7,40 | | 0 | 7,406 | 10: | 7,406 | 21 | | | 0 | C | | Min Stop/Rh | 0 | |
| People | 20,25 | | 0 | 20,250 | 26 | 11,250 | 32 | People | | 0 | C | | Return | 1,687 | 1 |
| Misc | 10,23 | 9 | 0 | 10,239 | 13 | 10,239 | 29 | Misc | | 0 | C | 0.00 | Exhaust | 338 | |
| Sub Total ==> | 37,89 | 5 | 0 | 37,895 | 49 | 28,895 | 83 | Sub Total | ==> | 0 | C | 0.00 | Rm Exh | 0 | |
| | | | | | | | | | | | | | Auxiliary | 0 | |
| eiling Load | 8 | | -87 | 0 | 0 : | 132 | 0 | | | -214 | | | Leakage Dwn | 0 | |
| entilation Load | | D | 0 | 34,039 | 44 : | 0 | 0 | Ventilation I | | 0 | -11,668 | | Leakage Ups | 0 | |
| dj Air Trans Hea | | 0 | | 0 | 0 : | 0 | 0 | Adj Air Tran | | 0 | C | | | | |
| humid. Ov Sizi | | | | 0 | 0 : | | | Ov/Undr Siz | | 0 | | | | | |
| //Undr Sizing | | D | -78 | 0 -78 | 0: | 0 | 0 | | | | 191 | | ENGIN | IEERING C | KS |
| chaust Heat up. Fan Heat | | | -/0 | -/8 | 0: | | | OA Preheat RA Preheat | | | | | | Cooling | Hea |
| et. Fan Heat | | | 0 | Ö | 0: | | | Additional F | | | Č | | % OA | 20.0 | |
| uct Heat Pkup | | | 0 | 0 | 0: | | | System Plei | | | -71 | 0.00 | cfm/ft² | 1.55 | 1 |
| nderfir Sup Ht P | kun | | | ŏ | 0: | | | Underfir Su | | | C | | cfm/ton | 262.16 | |
| ipply Air Leakag | | | 0 | 0 | 0: | | | Supply Air I | | | Ċ | | ft²/ton | 168.60 | |
| | | | - | - | | | | | - | | | | Btu/hr-ft2 | 71.17 | -29 |
| rand Total ==> | 42,60 | 4 | 577 | 77,220 | 100.00 | 34,981 | 100.00 | Grand Total | ==> | -19,331 | -31,764 | 100.00 | No. People | 45 | |
| | | | | COIL SELE | | | | | | AREAS | | H | EATING COIL | | |
| | Total Capacit ton MB | | ns Cap. (MBh | Coil Airflow cfm | | DB/WB/HR gr/lb | | DB/WB/HR °F gr/lb | ' | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F |
| ain Clg | 6.4 77. | 2 | 37.8 | 1,687 | 77.6 68. | 111.1 | 52.2 5 | 2.2 71.1 | Floor | 1,085 | | Main Htg | -31.8 | 1,687 | 61.9 |
| ıx Clg | 0.0 0. | 0 | 0.0 | 0 | 0.0 0. | 0.0 | 0.0 | 0.0 0.0 | Part | 1,158 | | Aux Htg | 0.0 | 0 | 0.0 |
| ot Vent | 0.0 | 0 | 0.0 | 0 | 0.0 0. | 0.0 | 0.0 | 0.0 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 |
| 1 | | | | | | | | | ExFir | 0 | | | 0.0 | | 0.0 |
| tal | 6.4 77. | 2 | | | | | | | Roof Wall | 0 451 | 0 0 | Humidif Opt Vent | 0.0 0.0 | 0 | 0.0 |
| | | | | | | | | | | | | Opt Vent | | U | 0.0 |
| | | | | | | | | | Ext Door | 0 | 0 0 | Total | -31.8 | | |

N1 Area 27 Entrevista imputado

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING (| OIL PEAK | | TEM | PERATURE | S |
|--------------------|------------------------------|------------------|-----------------------------------|---------------------|------------------------|---------------------|----------------------|----------|--------------------------|------------------------------|---------------|------------------------|-------------------------|----------------------|
| | ked at Time: Outside Air: | | o/Hr: 5 / 17 //HR: 84 / 83 / 2 | 16 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 57.7 75.4 | Heatin 80. 69. |
| | Space Sens. + Lat. | Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | Of Total | Return Ret/OA | 75.4 76.0 | 69. 66. |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | : | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | 0. |
| Envelope Loads | | | | | _ | | Envelope L | | _ | _ | | Fn BldTD | 0.0 | 0. |
| Skylite Solar | 0 | | 0 | 0: | 0 | 0 | | | 0 | 0 | | Fn Frict | 0.0 | 0. |
| Skylite Cond | 0 | | 0 | 0 | 0 | 0 | Skylite C | | 0 | 0 | | | | |
| Roof Cond | 0 | | 0 | 0 | 0 | 0 | Roof Cor | | 0 | 0 | | | IDEL OWE | |
| Glass Solar | 0 | | 0 | 0 : | 0 | 0 | Glass So | | 0 | 0 | | A | IRFLOWS | |
| Glass/Door Cond | | | 0 | 0 ; | 0 | 0 | Glass/Do | | 0 | 0 | | | Cooling | Heati |
| Wall Cond | 360 | | 553 | 11 ; | 757 | 23 | Wall Con | | -654 | -1,006 | | Diffuser | 210 | |
| Partition/Door | 347 | | 347 | 7: | 192 | 6 | | Door | -1,377 | -1,377 | 51.40 | | | |
| Floor | 0 | | 0 | 0 | 0 | 0 | Floor | _ | 0 | 0 | | Terminal Main Fan | 210 210 | |
| Adjacent Floor | 0 | | 0 | 0 | 0 | 0 | Adjacent | | 0 | 0 | 0.00 | 11 | | _ |
| Infiltration | 0 | | 0 | 0 | 0 | 0 | Infiltration | | 0 | 0 | | Sec Fan | 0 | |
| Sub Total ==> | 707 | 193 | 900 | 18: | 949 | 29 | Sub Tota | ==> | -2,031 | -2,383 | 88.95 | Nom Vent | 15 | |
| | | | | | | | | | | | | AHU Vent | 15 | |
| nternal Loads | | | | | | | Internal Loa | ids | | | | Infil | 0 | |
| Lights | 638 | 0 | 638 | 13 | 638 | 19 | Liahts | | 0 | 0 | 0.00 | Min Stop/Rh | 0 | |
| People | 900 | | 900 | 18 | 500 | 15 | People | | 0 | ő | | Return | 210 | |
| Misc | 1,195 | | 1,195 | 24 | 1,195 | 36 | Misc | | 0 | 0 | | Exhaust | 15 | |
| | | | | | | | | | | | 0.00 | Rm Exh | | |
| Sub Total ==> | 2,732 | 0 | 2,732 | 56 | 2,332 | 71 | Sub Tota | / ==> | 0 | 0 | 0.00 | Auxiliary | 0 | |
| Ceiling Load | 44 | 44 | 0 | 0 | 15 | 0 | Ceiling Loa | d | -18 | 0 | 0.00 | Leakage Dwn | 0 | |
| Ventilation Load | 11 | | | | 15 | 0 | Ventilation | | -10 | -519 | | | 0 | |
| | 0 | | 1,286 | 26 | | | | | 0 | -519 | | Leakage Ups | U | |
| Adj Air Trans Heat | | | 0 | 0 | 0 | 0 | Adj Air Trar | | | | | | | |
| Dehumid. Ov Sizin | | | 0 | 0 | | | Ov/Undr Siz | | 0 | 0 | | | | |
| Ov/Undr Sizing | 0 | | ō | 0: | 0 | 0 | Exhaust He | | | 9 | -0.32 | ENGI | NEERING C | KS |
| Exhaust Heat | | -5 | -5 | 0 : | | | OA Preheat | | | 0 | | | Cooling | Heatin |
| Sup. Fan Heat | | _ | 0 | 0: | | | RA Preheat | | | 0 | | % OA | 7.1 | 7. |
| Ret. Fan Heat | | 0 | 0 | 0: | | | Additional | | | 0 214 | 0.00 -7.99 | | | |
| Duct Heat Pkup | | 0 | 0 | 0: | | | System Ple | | | | | cfm/ft² | 2.25 | 2.2 |
| Jnderfir Sup Ht Pi | | | 0 | 0 | | | Underfir Su | | | 0 | | cfm/ton | 512.84 | |
| Supply Air Leakag | je | 0 | 0 | 0 | | | Supply Air | Leakage | | 0 | 0.00 | ft²/ton | 228.13 | |
| | | | | | | | | | | | | Btu/hr-ft ² | 52.60 | -28.6 |
| Grand Total ==> | 3,450 | 176 | 4,913 | 100.00 | 3,297 | 100.00 | Grand Tota | / ==> | -2,050 | -2,679 | 100.00 | No. People | 2 | |
| | | COOLIN | G COIL SELE | СПОИ | | | | | AREAS | | Н | EATING COIL | SELECTIO | N |
| | Total Capacity ton MBh | Sens Cap. MBh | Coil Airflow cfm | | r DB/WB/HR °F gr/lb | Leave °F | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F |
| | 0.4 4.9 | | 210 | | | 57.7 5 | | Floor | 93 | | Main Htg | -2.7 | 210 | |
| ux Clg | 0.0 0.0 | 0.0 | 0 | 0.0 | 0.0 0.0 | 0.0 | 0.0 | Part | 93 | | Aux Htg | 0.0 | 0 | 0.0 |
| pt Vent | 0.0 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | Int Door | | | Preheat | 0.0 | 0 | 0.0 |
| | | | | | | | | ExFlr | 0 | | | | _ | |
| otal | 0.4 4.9 | | | | | | | Roof | . 0 | | Humidif | 0.0 | 0 | 0.0 |
| | | | | | | | | Wall | 144 | | Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | Ext Doo | r 0 | 0 0 | Total | -2.7 | | |

| | COOLING | COIL PEAK | | С | LG SPACE | PEAK | | | HEATING (| OIL PEAK | | TEM | PERATURE | S |
|-----------------------------------|------------------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|-------------------------------|-----------|--------------------------|------------------------------|---------------------|--------------------------|-------------------------|-----------|
| | ked at Time: Outside Air: | Mo/Hi OADB/WB/HR | : 5/16 : 86/85/2 | 31 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 53.2 75.3 | Hear 9 |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | Percent of Total | Return Ret/OA | 75.3 77.6 | 6 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/l | n (%) | Fn MtrTD | 0.0 | |
| nvelope Loads | 0 | 0 | 0 | | | | Envelope Lo | | | | | Fn BldTD | 0.0 | |
| Skylite Solar Skylite Cond | 0 | | 0 | 0: | 0 | 0: | Skylite So Skylite Co | | 0 | | 0.00 | Fn Frict | 0.0 | |
| Roof Cond | 0 | | 0 | 0: | 0 | 0 | Roof Con | | 0 | | 0.00 | | | |
| Glass Solar | 0 | | 0 | o: | 0 | 0 | Glass Sol | | 0 | | 0.00 | A | IRFLOWS | |
| Glass/Door Cond | | | ŏ | o: | ŏ | 0: | Glass/Do | | ő | | | ^ | | |
| Wall Cond | 132 | 70 | 202 | 4 | 426 | 21 | Wall Con | | -453 | -69 | | | Cooling | |
| Partition/Door | 399 | | 399 | 9: | 425 | 21 | Partition/I | Door | -2.059 | -2.05 | 61.49 | Diffuser | 103 | |
| Floor | 0 | | 0 | 0: | 0 | 0 : | Floor | | 0 | | 0.00 | Terminal | 103 | |
| Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | Floor | 0 | | 0.00 | Main Fan | 103 | |
| Infiltration | 0 | | 0 | 0 : | 0 | 0 | Infiltration | | 0 | | 0.00 | Sec Fan | 0 |) |
| Sub Total ==> | 530 | 70 | 600 | 13: | 851 | 41 | Sub Total | ==> | -2,512 | -2,75 | 82.29 | Nom Vent | 23 | |
| | | | | | | | | | | | | AHU Vent | 23 | |
| ternal Loads | | | | | | | Internal Loa | ds | | | | Infil | 0 |) |
| _ights | 441 | 0 | 441 | 10 | 441 | 22 | Lights | | 0 | | 0.00 | Min Stop/Rh | 0 | |
| People | 1,350 | 0 | 1,350 | 30 | 750 | 37 | People | | 0 | | 0.00 | Return | 103 | |
| Misc | 0 | 0 | 0 | 0 : | 0 | 0 | Misc | | 0 | | 0.00 | Exhaust | 23 | |
| Sub Total ==> | 1,791 | 0 | 1,791 | 39 | 1,191 | 58 | Sub Total | ==> | 0 | | 0.00 | Rm Exh | 0 | |
| | _ | _ | | _ : | | | 0-111 | | -13 | | | Auxiliary | 0 | |
| eiling Load entilation Load | 7 | -7 | 0 | 0 | 10 | 0 | Ceiling Load Ventilation I | | -13 0 | -77 | | Leakage Dwn | 0 | |
| di Air Trans Heat | | 0 | 2,165 | 48 : | 0 | | Adj Air Tran | | 0 | -11 | | Leakage Ups | 0 | |
| ehumid. Ov Sizii | | | 0 | 0 : | 0 | 0 ; | | | 0 | | | | | |
| enumia. Ov sizii v/Undr Sizina | | | 0 | 0 | | 0 | Ov/Undr Siz Exhaust He | | U | 1 | | | | |
| xhaust Heat | 0 | -6 | -6 | 0: | 0 | U | OA Preheat | | | | 0.00 | ENGIN | NEERING C | KS |
| up. Fan Heat | | -0 | -0 | 0: | | | RA Preheat | | | | 0.00 | | Cooling | Hear |
| et. Fan Heat | | 0 | ő | 0: | | | Additional F | | | | 0.00 | % OA | 21.8 | 2 |
| uct Heat Pkup | | ō | ō | 0: | | - 1 | System Plei | num Heat | | 17 | -5.14 | cfm/ft² | 1.60 | 1 |
| nderfir Sup Ht P | kup | | 0 | 0: | | | Underfir Su | p Ht Pkup | | | 0.00 | cfm/ton | 272.71 | |
| upply Air Leakag | je | 0 | 0 | 0 | | - : | Supply Air I | eakage | | | 0.00 | ft²/ton | 170.54 | |
| Grand Total ==> | 2,328 | 57 | 4,550 | 100.00 | 2,053 | 100.00 | Grand Total | ==> | -2,525 | -3,34 | 100.00 | Btu/hr-ft² No. People | 70.37 3 | -51 |
| | | COOLING | OIL SELE | стои | | | | | AREAS | | Н | EATING COIL | SELECTIO | |
| | Total Capacity ton MBh | Sens Cap. Co MBh | oil Airflow cfm | Enter DE | B/WB/HR gr/lb | | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F |
| ain Clg | 0.4 4.6 | 2.0 | 103 | 77.6 68.2 | 112.4 | 53.2 53 | .1 73.8 | Floor | 65 | | Main Htg | -3.4 | 103 | 61.2 |
| ıx Clg | 0.0 0.0 | 0.0 | 0 | 0.0 0.0 | 0.0 | 0.0 | 0.0 | Part | 140 | | Aux Htg | 0.0 | 0 | 0.0 |
| ot Vent | 0.0 0.0 | 0.0 | 0 | 0.0 0.0 | 0.0 | 0.0 | 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 |
| | | | | | | | | ExFlr | 0 | | L | _ | | |
| tal | 0.4 4.6 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | | | | | | | | Wall | 100 | 0 0 | Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | Ext Door | . 0 | 0 0 | Total | -3.4 | | |

N1 Area 29 Vestibulo Salas

| | COO | LING C | OIL PEAK | | (| CLG SPACE | PEAK | | | HEATING | COIL PEAK | | TEM | PERATURE | S |
|--|-----------------------|-------------------|-----------------------|-------------------|---------------------|-------------------|---------------------|--------------------------------|----------|--------------------------|------------------------------|---------------------------|-------------------|-------------------------|----------------------|
| Pea | ked at Tin Outside | | Mo/Hr: OADB/WB/HR: | | 31 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Desig 32 | n | SADB Ra Plenum | Cooling 52.3 75.3 | Heatin 95. 69. |
| | Sens | Space . + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | Coil Pe Tot Se | ak Percent ns Of Total | Return Ret/OA | 75.3 77.4 | 69. 62. |
| | | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu | ı/h (%) | Fn MtrTD | 0.0 | 0. |
| Envelope Loads | | | | | | | | Envelope L | | | | | Fn BldTD | 0.0 | 0. |
| Skylite Solar | | 0 | 0 | 0 | 0 : | 0 | 0 | | | 0 | | 0.00 | Fn Frict | 0.0 | 0. |
| Skylite Cond | | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | 0.00 | | | |
| Roof Cond | | 0 | 0 | 0 | | 0 | 0 | | | 0 | | 0 0.00 | . | RFLOWS | |
| Glass Solar Glass/Door Cond | | 0 | 0 | 0 | 0: | 0 | 0 | | | 0 | | 0 0.00 | A | | |
| Wall Cond | | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | 0.00 | ll . | Cooling | Heati |
| Partition/Door | | 2.134 | U | 2,134 | 13 | 2.302 | 29 | | | -8.653 | -8.6 | | Diffuser | 384 | 3 |
| Floor | | 2,134 | | 2,134 | 0: | 2,302 | 29 | | J00I | -6,003 | -8,0 | 0 0.00 | Terminal | 384 | 3 |
| Adjacent Floor | | 0 | 0 | 0 | 0: | 0 | 0 | | Eleor | 0 | | 0.00 | Main Fan | 384 | 3 |
| Infiltration | | ő | U | 0 | 0: | 0 | 0 | | | 0 | | 0.00 | Sec Fan | 0 | |
| Sub Total ==> | | 2,134 | 0 | 2,134 | 13 | 2.302 | 29 | | | -8.653 | -8.6 | | Nom Vent | 75 | |
| Sub Iolai ==> | | 2,134 | U | 2,134 | 13: | 2,302 | 23 | : Gub rota | | -0,055 | -0,0 | 33 73.10 | | 75 75 | |
| Internal Loads | | | | | | | | Internal Loa | ds | | | | AHU Vent | 75 | |
| | | | | | | | | | | | | | Infil | - | |
| Lights | | 3,078 | 0 | 3,078 | 18 | 3,078 | 39 | | | 0 | | 0.00 | Min Stop/Rh | 0 | |
| People | | 4,500 | 0 | 4,500 | 27 | 2,500 | 32 | | | 0 | | 0.00 | Return | 384 75 | 3 |
| Misc | | 0 | 0 | 0 | 0 : | 0 | 0 | | | 0 | | 0.00 | Exhaust | /5 | |
| Sub Total ==> | | 7,578 | 0 | 7,578 | 45 | 5,578 | 70 | Sub Total | ==> | 0 | | 0.00 | Rm Exh | | |
| 0-111 | | | | | _ ; | | | | | | | | Auxiliary | 0 | |
| Ceiling Load | | 45 | -45 | . 0 | 0 | 55 | 1 | Ceiling Loa | | -89 0 | -2.5 | 0.00 | Leakage Dwn | 0 | |
| Ventilation Load | | 0 | 0 | 7,217 | 43 ; | 0 | 0 | Ventilation | | | -2,5 | | Leakage Ups | 0 | |
| Adj Air Trans Hea | | 0 | | 0 | 0 | 0 | 0 | | | 0 | | 0 0 | | | |
| Dehumid. Ov Sizii | ıg | | | 0 | 0 : | | | Ov/Undr Siz | | 0 | | 0.00 | | | |
| Ov/Undr Sizing | | 0 | | 0 | 0: | 0 | 0 | Exhaust He | | | | 42 -0.37 | ENGIN | IEERING CI | KS |
| Exhaust Heat | | | -22 | -22 | 0 : | | | : OA Preheat | | | | 0.00 | | Cooling | Heatin |
| Sup. Fan Heat | | | 0 | 0 | 0: | | | : RA Preheat | | | | 0 0.00 | % OA | 19.5 | 19. |
| Ret. Fan Heat | | | 0 | 0 | 0: | | | : Additional F : System Ple | | | -3 | | cfm/ft² | 0.85 | 0.8 |
| Duct Heat Pkup | les en | | U | 0 | 0: | | | | | | -3 | 0 0.00 | cfm/ton | 272.67 | 0.0 |
| Underfir Sup Ht P Supply Air Leakag | | | 0 | 0 | 0: | | | Supply Air | | | | 0.00 | ft²/ton | 320.05 | |
| Supply All Leakag | e | | U | U | 0 | | | Supply Air | _eakage | | | 0.00 | Btu/hr-ft² | 37.49 | -25.5 |
| Grand Total ==> | | 9,758 | -67 | 16,908 | 100.00 | 7,935 | 100.00 | Grand Total | ==> | -8,742 | -11,5 | 10 100.00 | No. People | 10 | -25.5 |
| | | | COOLING C | OIL SELE | спои | | | | | AREAS | | Н | EATING COIL | SELECTIO | N |
| | Total Ca ton | apacity MBh | Sens Cap. Co MBh | il Airflow cfm | | B/WB/HR gr/lb | Leav °F | °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F |
| Main Clg | 1.4 | 16.9 | 8.4 | 384 | 77.4 67.6 | 109.0 | 52.3 5 | 2.2 71.3 | Floor | 451 | | Main Htg | -11.5 | 384 | 62.1 9 |
| Aux Cla | 0.0 | 0.0 | 0.0 | 0 | | | | 0.0 0.0 | Part | 587 | | Aux Htg | 0.0 | | 0.0 |
| Opt Vent | 0.0 | 0.0 | 0.0 | 0 | | | | 0.0 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 |
| Opt vent | 0.0 | 0.0 | 0.0 | U | 0.0 0.0 | 0.0 | 3.0 | 0.0 | ExFlr | 0 | | ricileat | 0.0 | U | 0.0 |
| Total | 1.4 | 16.9 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| rotar | 1.4 | 10.9 | | | | | | | Wall | 0 | 0 0 | Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | | Ext Door | • | 0 0 | Total | -11.5 | | 0.0 |
| | | | | | | | | | EXI DOOL | U | U 0 | iotai | -11.5 | | |

| | COOLING | COIL PEAK | | | CLG SPACE | PEAK | | | HEATING (| COIL PE | AK | | TEM | PERATURE | S | |
|------------------------------|------------------------------|-----------------------|----------------------------------|---------------------|---------------------|---------------------|----------------------|--------------|--------------------------|--------------------------|---------------------|---------------------|-------------------------------|-------------------------|-----------|------------|
| Pea | ked at Time: Outside Air: | | o/Hr: 5 / 16 /HR: 86 / 85 / 2 | 31 | Mo/Hr: : OADB: : | | | | Mo/Hr: OADB: | Heating E 32 | Design | | SADB | Cooling 57.8 75.3 | | 91. 69. |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | oil Peak ot Sens | Percent Of Total | Ra Plenum Return Ret/OA | 75.3 75.9 | | 69 |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | | Btu/h | (%) | Fn MtrTD | 0.0 | | (|
| nvelope Loads | _ | _ | _ | | _ | | Envelope L | | _ | | _ | | Fn BldTD | 0.0 | | |
| Skylite Solar | 0 | 0 | 0 | 0 : | 0 | 0 | Skylite So | | 0 | | 0 | 0.00 | Fn Frict | 0.0 | | |
| Skylite Cond | 0 | 0 | 0 | 0: | 0 | 0 | Skylite Co | | 0 | | 0 | 0.00 | | | | = |
| Roof Cond | | 0 | | | | | Roof Con | | | | 0 | 0.00 | | IRFLOWS | | |
| Glass Solar | 233 I 108 | 0 | 233 108 | 1: | 207 100 | 1 | Glass So Glass/Do | | -395 | | | 0.00 | A | IRFLOWS | | |
| Glass/Door Cond Wall Cond | 4.427 | 2.514 | 6.941 | 21: | 4.385 | 19 | | | -5.961 | | -395 -9.328 | 1.24 29.36 | | Cooling | He | ea |
| Partition/Door | 4,427 | 2,514 | 4.861 | 14 | 4,365 5.501 | 24 | | | -21,848 | | -9,320 | 68.77 | Diffuser | 1.455 | | 1 |
| Floor | 4,801 | | 4,861 | 0: | 5,501 | 0 | Floor | 1000 | -21,040 | | -21,848 | 0.00 | Terminal | 1.455 | | 1 |
| Adiacent Floor | 0 | 0 | 0 | 0: | 0 | 0 | Adiacent | Floor | 0 | | 0 | 0.00 | Main Fan | 1,455 | | i |
| nfiltration | 0 | U | 0 | 0: | 0 | 0 | Infiltration | | 0 | | 0 | 0.00 | Sec Fan | 0 | | • |
| | | 2544 | | 36: | 10.192 | 45 | Sub Total | | -28,205 | | -31.571 | 99.38 | | - | | |
| Sub Total ==> | 9,629 | 2,514 | 12,142 | 30 | 10,192 | 45 | Sub rotal | | -20,205 | | -31,5/1 | 99.30 | Nom Vent | 75 | | |
| | | | | : | | | Internal Loa | do | | | | | AHU Vent | 75 | | |
| ternal Loads | | | | | | | | us | | | | | Infil | 0 | | |
| _ights | 6,531 | 0 | 6,531 | 19 | 6,531 | 29 | | | 0 | | 0 | 0.00 | Min Stop/Rh | 0 | | |
| People | 4,500 | 0 | 4,500 | 13 | 2,500 | 11 | People | | 0 | | 0 | 0.00 | Return | 1,455 | | 1 |
| Misc | 3,413 | 0 | 3,413 | 10 ; | 3,413 | 15 | Misc | | 0 | | 0 | 0.00 | Exhaust | 75 | | |
| Sub Total ==> | 14,444 | 0 | 14,444 | 43 | 12,444 | 55 | Sub Total | ==> | 0 | | 0 | 0.00 | Rm Exh Auxiliary | 0 | | |
| eiling Load | 96 | -96 | 0 | 0: | 116 | 1 | Ceiling Loa | 1 | -189 | | 0 | 0.00 | Leakage Dwn | Ö | | |
| entilation Load | 0 | 0 | 7.217 | 21 | 0 | 0 | Ventilation | | 0 | | -2,593 | 8.16 | Leakage Ups | 0 | | |
| di Air Trans Hea | | U | 7,217 | 0: | 0 | | Adi Air Tran | | Ö | | 0 | 0 | Leakage Ops | | | |
| ehumid. Ov Sizi | | | 0 | 0: | U | U | Ov/Undr Siz | | 0 | | 0 | 0.00 | | | | _ |
| v/Undr Sizing | .a. | | 0 | 0: | 0 | 0 | Exhaust He | | U | | 42 | -0.13 | FNOI | IEEDINIO O | | |
| chaust Heat | U | -22 | -22 | 0: | U | U | OA Preheat | | | | 0 | 0.00 | ENGIN | IEERING C | K5 | |
| up. Fan Heat | | -22 | -22 | 0: | | | RA Preheat | | | | 0 | 0.00 | | Cooling | Hea | at |
| et. Fan Heat | | 0 | o o | 0: | | | Additional F | | | | ŏ | 0.00 | % OA | 5.2 | | |
| uct Heat Pkup | | ñ | o o | 0: | | | System Ple | | | | 2,353 | -7.41 | cfm/ft² | 1.52 | | 1 |
| nderfir Sup Ht P | kun | Ü | ő | 0: | | | Underfir Su | | | | 0 | 0.00 | cfm/ton | 516.98 | | |
| apply Air Leakag | | 0 | 0 | 0: | | | Supply Air | | | | 0 | 0.00 | ft²/ton | 339.87 | | |
| | | _ | - | - : | | | | - | | | - | | Btu/hr-ft² | 35.31 | -3 | 3 |
| rand Total ==> | 24,169 | 2,396 | 33,782 | 100.00 | 22,752 | 100.00 | Grand Total | / ==> | -28,393 | | -31,768 | 100.00 | No. People | 10 | | |
| | | | G COIL SELE | | | | | | AREAS | | | HE | EATING COIL | | | _ |
| | Total Capacity ton MBh | Sens Cap. MBh | Coil Airflow cfm | | DB/WB/HR F gr/lb | | DB/WB/HR °F gr/lb | ' | Gross Total | Glass ft ² | (%) | | Capacity MBh | Coil Airflow cfm | Ent °F | |
| ain Clg | 2.8 33.8 | 25.3 | 1,455 | 75.9 63 | 4 87.3 | 57.8 5 | 5.2 75.7 | Floor | 957 | | | Main Htg | -31.8 | 1,455 | 67.5 | |
| ıx Clg | 0.0 0.0 | 0.0 | . 0 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | Part | 1,482 | | - 11 | Aux Htg | 0.0 | 0 | 0.0 | |
| ot Vent | 0.0 0.0 | 0.0 | 0 | 0.0 0 | 0.0 | 0.0 | 0.0 0.0 | Int Door | 0 | | | Preheat | 0.0 | 0 | 0.0 | |
| tal | 20 220 | | | | | | | ExFir | 0 | 0 | , | Uumidif | 0.0 | 0 | 0.0 | |
| tal | 2.8 33.8 | | | | | | - 1 | Roof Wall | 1,382 | 0 | | Humidif | 0.0 | 0 | 0.0 | |
| | | | | | | | - 1 | | | 44 | - 11 | Opt Vent | | U | U.U | |
| | | | | | | | | Ext Door | 0 | 0 | 0 | Total | -31.8 | | | |

By Trane

N1 Area 31 Entrevista imputado

| | COOLING | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING C | OIL PEAK | | TEM | PERATURE | S |
|---------------------------|-----------------------------|-----------------------|----------------------------------|---------------------|------------------------|---------------------|------------------------|-----------------|--------------------------|----------------------|----------|--------------------------|-------------------------|----------------------|
| | ed at Time: Outside Air: | | o/Hr: 6 / 20 /HR: 72 / 72 / 1 | 14 | Mo/Hr: OADB: | | | | Mo/Hr: I OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 59.2 75.5 | Heatin 88. 69. |
| | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | | | Space Peak Space Sens | | Of Total | Return Ret/OA | 75.5 75.3 | 69. 67. |
| | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | 0. |
| Envelope Loads | _ | _ | | _ : | _ | | Envelope L | | _ | | | Fn BldTD | 0.0 | 0. |
| Skylite Solar | 0 | 0 | 0 | 0 | 0 | 0 | Skylite S | | 0 | 0 | | Fn Frict | 0.0 | 0. |
| Skylite Cond Roof Cond | 0 | 0 | 0 | 0 | 0 | 0 | Skylite Co Roof Con | | 0 | 0 | | | | |
| Glass Solar | 0 | 0 | 0 | 0 | 0 | 0 | Glass So | | 0 | 0 | | II . | IRFLOWS | |
| Glass/Door Cond | 0 | 0 | 0 | 0 | | 0 | Glass/Do | | 0 | 0 | | ^ | | |
| Wall Cond | 2.759 | 1.474 | 4.233 | 56 | | 53 | | | -4.618 | -7.098 | | | Cooling | Heati |
| Partition/Door | 109 | 1,474 | 4,233 | 1 | | 2 | | | -1,286 | -1,286 | | Diffuser | 360 | 3 |
| Floor | 0 | | 0 | 0 | 0 | 0 | Floor | DOOI | -1,200 | -1,200 | | Terminal | 360 | 3 |
| Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | Floor | ň | 0 | | Main Fan | 360 | |
| Infiltration | 0 | U | 0 | 0 | 0 | 0 | Infiltration | | 0 | 0 | | Sec Fan | 0 | |
| Sub Total ==> | 2.869 | 1,474 | 4.343 | 58 | 2.869 | 55 | Sub Tota | | -5.904 | -8.385 | | Nom Vent | 15 | |
| Sub Iolai ==> | 2,009 | 1,474 | 4,343 | 56 | 2,009 | 55 | , ODD TOTAL | | -5,504 | -0,303 | 120.57 | AHU Vent | 15 | |
| nternal Loads | | | | | | | Internal Loa | nds | | | | | 0 | |
| | | | | _ | | | | ius | | _ | | Infil | | |
| Lights | 596 | 0 | 596 | 8 | 596 | 12 | Lights | | 0 | 0 | | Min Stop/Rh | 0 | |
| People | 900 | 0 | 900 | 12 | | 10 | People | | 0 | 0 | | Return | 360 | |
| Misc | 1,195 | 0 | 1,195 | 16 | 1,195 | 23 | Misc | | 0 | 0 | | Exhaust | 15 | |
| Sub Total ==> | 2,690 | 0 | 2,690 | 36 | 2,290 | 44 | Sub Tota | / ==> | 0 | 0 | 0.00 | Rm Exh | 0 | |
| | | | | | | | | | | | | Auxiliary | 0 | |
| Ceiling Load | 14 | -14 | 0 | 0 | 14 | | Ceiling Loa | | -17 | 0 | | Leakage Dwn | 0 | |
| Ventilation Load | 0 | 0 | 507 | 7 : | | 0 | | | 0 | -519 | | Leakage Ups | 0 | |
| Adj Air Trans Heat | 0 | | 0 | 0 | 0 | 0 | Adj Air Tran | | 0 | 0 | | | | |
| Dehumid. Ov Sizing | | | 0 | 0 | | | Ov/Undr Siz | | 0 | 0 | | | | |
| Ov/Undr Sizing | 0 | | 0 | 0: | 0 | 0 | Exhaust He | | | 9 | | ENGI | NEERING C | KS |
| Exhaust Heat | | -7 | -7 | 0 : | | | OA Preheat | | | 0 | | | 0 | Heatin |
| Sup. Fan Heat | | _ | 0 | 0: | | | RA Preheat | | | 0 | | % OA | Cooling 4.2 | Heatin 4. |
| Ret. Fan Heat | | 0 | 0 | 0: | | | Additional I | | | 2,260 | | | 4.2 | 4.1 |
| Duct Heat Pkup | | 0 | 0 | 0 | | | System Ple | | | | | cfm/ft² | | 4.1 |
| Jnderfir Sup Ht Pku | | _ | 0 | 0 | | | Underfir Su | | | 0 | | cfm/ton | 572.91 | |
| Supply Air Leakage | • | 0 | 0 | 0 | | | Supply Air | Leakage | | 0 | 0.00 | ft²/ton | 139.01 | |
| Grand Total ==> | 5,572 | 1,454 | 7,533 | 100.00 | 5,172 | 100.00 | Grand Tota | <i>I ==></i> | -5,921 | -6,635 | 100.00 | Btu/hr·ft² No. People | 86.33 2 | -76.0 |
| | | | G COIL SELE | | | | | | AREAS | | Н | EATING COIL | | |
| | Total Capacity on MBh | Sens Cap. MBh | Coil Airflow cfm | | r DB/WB/HR °F gr/lb | °F | °F gr/lb | | Gross Total | Glass ft² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F |
| | 0.6 7.5 | 6.6 | 360 | 75.3 62 | | 59.2 5 | | Floor | 87 | | Main Htg | -6.6 | | 67.8 |
| Aux Clg (| 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | Part | 87 | | Aux Htg | 0.0 | 0 | 0.0 |
| Opt Vent (| 0.0 | 0.0 | 0 | 0.0 | 0.0 0.0 | 0.0 | 0.0 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 |
| | | | _ | | | | | ExFlr | Ō | | | | _ | |
| Total (| 0.6 7.5 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| | | | | | | | | Wall | 1,018 | 0 0 | Opt Vent | 0.0 | 0 | 0.0 |
| | | | | | | | | Evt Door | | 0 0 | Total | -6.6 | | |

| | | | | | CLG SPACE | | | | HEATING C | | | | PERATURE | |
|---------------------|-----------------------------|------------------|----------------------------------|----------|---------------------|-------------|----------------------|-----------|--------------|------------------------------|----------|-------------------|-------------------------|--------------------|
| | ed at Time: Outside Air: | | o/Hr: 5 / 16 /HR: 86 / 85 / 2 | 31 | Mo/Hr: OADB: | | | | Mo/Hr: OADB: | Heating Design 32 | | SADB Ra Plenum | Cooling 50.9 75.3 | Heatin 99 69 |
| | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil Peak | Percent | Return | 75.3 | 69. |
| | Sens. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | Tot Sens | Of Total | Ret/OA | 78.2 | 59. |
| | Btu/h | Btu/h | Btu/h | (%) | Btu/h | (%) | | | Btu/h | Btu/h | (%) | Fn MtrTD | 0.0 | 0. |
| nvelope Loads | | | | 1 | | | Envelope L | | | | | Fn BldTD | 0.0 | 0. |
| Skylite Solar | 0 | 0 | 0 | 0 | 0 | 0 | Skylite So | | 0 | 0 | | Fn Frict | 0.0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | | | | |
| Roof Cond | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | | ll . | | |
| Glass Solar | 0 | 0 | 0 | 0 ; | 0 | 0 | | | 0 | 0 | | A | RFLOWS | |
| Glass/Door Cond | 0 | 0 | _0 | 0 ; | 0 | 0 | | | _0 | _0 | | | Cooling | Heati |
| Wall Cond | 241 | 130 | 371 | 8 ; | 250 | 14 | | | -373 | -573 | | Diffuser | 82 | |
| Partition/Door | 359 | | 359 | 8 | 436 | 24 | | Door | -1,853 | -1,853 | | Terminal | 82 | |
| Floor | 0 | _ | 0 | 0 | 0 | 0 | | _ | 0 | 0 | | Main Fan | 82 82 | |
| Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | | 0 | 0 | | | | |
| Infiltration | 0 | | 0 | 0 | 0 | 0 | | | 0 | 0 | | Sec Fan | 0 | |
| Sub Total ==> | 600 | 130 | 729 | 16 | 686 | 38 | Sub Total | ==> | -2,226 | -2,426 | 79.60 | Nom Vent | 23 | |
| | | | | - : | | | | | | | | AHU Vent | 23 | |
| nternal Loads | | | | | | | Internal Loa | ds | | | | Infil | 0 | |
| Lights | 356 | 0 | 356 | 8 | 356 | 20 | Lights | | 0 | 0 | 0.00 | Min Stop/Rh | 0 | |
| People | 1,350 | ō | 1,350 | 29 | 750 | 42 | | | Ō | ō | | Return | 82 | |
| Misc | 0 | 0 | 0 | 0: | 0 | 0 | Misc | | 0 | 0 | | Exhaust | 23 | |
| Sub Total ==> | 1,706 | 0 | 1,706 | 37 | 1,106 | 61 | Sub Total | | 0 | 0 | 0.00 | Rm Exh | 0 | |
| Sub Total | 1,700 | U | 1,700 | 37 | 1,100 | 01 | Sub rota | | Ü | 0 | 0.00 | Auxiliary | 0 | |
| Ceiling Load | 5 | -5 | 0 | 0: | 7 | 0 | Ceiling Loa | d | -10 | 0 | 0.00 | Leakage Dwn | 0 | |
| entilation Load | 0 | 0 | 2.165 | 47 | 0 | 0 | Ventilation | Load | 0 | -778 | 25.52 | Leakage Ups | 0 | |
| Adj Air Trans Heat | 0 | | 0 | 0 | 0 | 0 | Adj Air Tran | s Heat | 0 | 0 | 0 | | | |
| Dehumid, Ov Sizing | | | 0 | 0: | | | Ov/Undr Siz | ina | 0 | 0 | 0.00 | | | |
| Ov/Undr Sizing | , , | | 0 | 0 | 0 | 0 | Exhaust He | | | 13 | | ENGIN | IEERING C | νc |
| xhaust Heat | | -6 | -6 | ő: | 0 | U | OA Preheat | | | 0 | | LINGII | ILLKING C | N3 |
| Sup. Fan Heat | | | 0 | 0: | | | RA Preheat | | | ō | 0.00 | | Cooling | Heatin |
| Ret. Fan Heat | | 0 | ō | 0: | | | Additional I | | | ō | | % OA | 27.4 | 27. |
| Ouct Heat Pkup | | 0 | 0 | 0: | | | System Ple | num Heat | | 143 | -4.70 | cfm/ft² | 1.58 | 1.5 |
| Inderfir Sup Ht Pki | up | | 0 | 0: | | | Underfir Su | p Ht Pkup | | 0 | 0.00 | cfm/ton | 214.72 | |
| Supply Air Leakage | | 0 | 0 | 0: | | | Supply Air | | | 0 | 0.00 | ft²/ton | 136.31 | |
| | | | _ | - 1 | | | | - | | _ | | Btu/hr·ft² | 88.04 | -58.4 |
| Grand Total ==> | 2,311 | 118 | 4,594 | 100.00 | 1,799 | 100.00 | Grand Total | ==> | -2,236 | -3,048 | 100.00 | No. People | 3 | |
| | | COOLING | COIL SELE | CTION | | | | | AREAS | | Н | EATING COIL | SELECTIO | N |
| | Total Capacity on MBh | Sens Cap. MBh | Coil Airflow cfm | | DB/WB/HR F gr/lb | Leave °F | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F |
| lain Clg (| 0.4 4.6 | 2.1 | 82 | 78.2 69 | .7 120.9 | 50.9 5 | 0.8 67.4 | Floor | 52 | | Main Htg | -3.1 | 82 | 59.2 |
| | 0.0 0.0 | 0.0 | Č | | .0 0.0 | | 0.0 0.0 | Part | 126 | | Aux Htg | 0.0 | 0 | 0.0 |
| | 0.0 | 0.0 | Č | | .0 0.0 | | 0.0 0.0 | Int Door | .20 | | Preheat | 0.0 | 0 | 0.0 |
| pr vent | J.U U.U | 0.0 | | 0.0 0 | .0 0.0 | 0.0 | 0.0 0.0 | ExFIr | 0 | | ricileat | 0.0 | U | J.U |
| | 0.4 4.6 | | | | | | | Roof | 0 | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| Total I | | | | | | | | | | | | | | |
| otal (| 3.4 | | | | | | | Wall | 82 | | Opt Vent | 0.0 | 0 | 0.0 |

System Checksums By Trane

| Planta Baja | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------|----------------------|-----------------------|--------------------------------|-------------|----------------------|-----------------|-------------------------|----------|--------------------------|-----------------------|-------|---------------------|--------------------------|-------------------------|-----------|-------------------|
| | | | OIL PEAK | | | CLG SPAC | | | | HEATING | COIL PEA | K | | TEM | PERATURE | S | |
| ı | Peaked a Outs | t Time: ide Air: | | /Hr: 5 / 17 HR: 84 / 83 / 2 | 216 | | Sum of Peaks | : | | Mo/Hr OADB | : Heating Des : 32 | ign | | SADB Ra Plenum | Cooling 58.3 76.4 | | ing 2.3 9.0 |
| | 5 | Space ens. + Lat. | Plenum Sens. + Lat | Net Total | Of Total | Sensible | Of Total | i: | | Space Peal Space Sens | s Tot | Sens | Percent Of Total | Return Ret/OA | 76.4 76.7 | 6 | 9.0 7.4 |
| Envelope Load | to | Btu/h | Btu/h | Btu/h | (%) | : Btu/h | (%) | : : Envelope L | ondo | Btu/I | n i | 3tu/h | (%) | Fn MtrTD Fn BldTD | 0.0 | | 0.0 |
| Skylite Solar | 18 | 0 | 0 | 0 | 0 | : o | 0 | | | | 0 | 0 | 0.00 | Fn Frict | 0.0 | | 0.0 |
| Skylite Cond | | ō | ō | ō | ō | | ō | | | i | 0 | ō | 0.00 | 11111100 | | | |
| Roof Cond | | 0 | 40,326 | 40,326 | 6 | | 0 | | | | | ,833 | 12.25 | | | | |
| Glass Solar | | 84,976 | 0 | 84,976 | 13 | | 29 | | | | | 0 | 0.00 | A | IRFLOWS | | |
| Glass/Door C | ond | 2,977 | 0 | 2,977 | 0 | | 0 | | | -11,800 | | ,800 | 7.67 | | Cooling | Hea | ating |
| Wall Cond Partition/Doo | | 8,934 11,243 | 10,382 | 19,316 11,243 | 3 | | 1 | Wall Cor Partition | | -13,71° -42,50 | | 1,102 | 19.58 27.65 | Diffuser | 34,535 | 34 | 1,535 |
| Floor | | 11,243 | | 11,243 | 0 | | 1 | | Door | -42,503 | | 0,000 | 0.00 | Terminal | 34,535 | | 1,535 |
| Adiacent Floo | ır | 0 | 0 | 0 | Ö | | 0 | | Floor | | | 0 | 0.00 | Main Fan | 34,535 | | 1,535 |
| Infiltration | | Ö | | ŏ | Ö | | Č | | | i | Ď | ő | 0.00 | Sec Fan | 0 | | 0 |
| Sub Total ==: | | 108,130 | 50,708 | 158.838 | 23 | 167,633 | 32 | Sub Tota | a/ ==> | -68,016 | 6 -103 | ,239 | 67.15 | Nom Vent | 1.500 | 1 | 1,500 |
| | | | | | | | | : | | | | | | AHU Vent | 1,500 | | 1,500 |
| Internal Loads | | | | | | | | Internal Lo | ads | | | | | Infil | 0 | | 0 |
| Lights | | 93,116 | 0 | 93,116 | 14 | 93,116 | 18 | Lights | | | 0 | 0 | 0.00 | Min Stop/Rh | 0 | | 0 |
| People | | 90,000 | 0 | 90,000 | 13 | 50,000 | 10 | People | | | 0 | 0 | 0.00 | Return | 34,535 | | 1,535 |
| Misc | | 208,474 | 0 | 208,474 | 31 | 208,474 | 40 | Misc | | (| 0 | 0 | 0.00 | Exhaust | 1,500 | 1 | 1,500 |
| Sub Total ==: | • | 391,591 | 0 | 391,591 | 58 | 351,591 | 67 | Sub Tota | a/ ==> | | 0 | 0 | 0.00 | Rm Exh | 0 | | 0 |
| | | | | _ | | | | | | | | | 0.00 | Auxiliary | 0 | | 0 |
| Ceiling Load Ventilation Load | | 6,134 | -6,134 | 0 | 0 | | 1 | | | -4,26 | | .857 | 0.00 33.73 | Leakage Dwn | 0 | | 0 |
| Adj Air Trans I | | 0 | 0 | 128,872 | 19 | | 0 | : Adj Air Tra | | | | ,007 | 33.73 | Leakage Ups | 0 | | 0 |
| Dehumid. Ov 5 | | 0 | | 0 | 0 | | U | Ov/Undr Si | | | | 0 | 0.00 | | | | |
| Ov/Undr Sizing | | 0 | | 0 | 0 | | | Exhaust He | | , | | .345 | -0.87 | ENGI | NEERING C | V.C | |
| Exhaust Heat | , | U | -1.937 | -1.937 | Ü | | U | : OA Prehea | | | | ,343 | 0.00 | ENGI | NEERING C | K5 | |
| Sup. Fan Heat | | | 1,001 | 0 | ō | | | : RA Prehea | | | | ō | 0.00 | | Cooling | Heat | |
| Ret. Fan Heat | | | 0 | Ō | 0 | | | Additional | Reheat | | | 0 | 0.00 | % OA | 4.3 | | 4.3 |
| Duct Heat Pku | | | 0 | 0 | 0 | | | | | | | | | cfm/ft² | 2.53 | 2 | .53 |
| Underfir Sup I | | | | 0 | 0 | | | Underfir S | | | | 0 | 0.00 | cfm/ton | 611.82 | | |
| Supply Air Lea | ıkage | | 0 | 0 | 0 | 1 | | Supply Air | Leakage | | | 0 | 0.00 | ft²/ton | 241.67 | | |
| Grand Total = | -> | 505,855 | 42,638 | 677,364 | 100.00 | 524,246 | 100.00 | : Grand Tota | a/ ==> | -72,27 | 6 -153 | ,751 | 100.00 | Btu/hr-ft² No. People | 49.65 200 | -11 | .27 |
| | | | | COIL SEL | | | | | | AREA | | | HE | ATING COIL | | | _ |
| | Tota ton | al Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter °F | DB/WB/HR °F gr/lb | Leav °F | re DB/WB/HR °F gr/lb | | Gross Total | Glass ft² (% | , [] | | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
| Main Clg | 56.5 | 677.4 | 520.4 | 34,535 | 76.7 | 63.1 84.4 | 58.3 | 56.2 79.5 | Floor | 13,641 | | - 11 | Main Htg | -153.8 | 34,535 | 67.4 | 72.3 |
| Aux Clg | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 0.0 | | 0.0 0.0 | Part | 2,883 | | - | Aux Htg | 0.0 | 0 | 0.0 | 0.0 |
| Opt Vent | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 0.0 | 0.0 | 0.0 0.0 | Int Door | 0 | | - 11 | Preheat | 0.0 | 0 | 0.0 | 0.0 |
| • | | | | | | | | | ExFir | Ō | | | | | | | |
| Total | 56.5 | 677.4 | | | | | | | Roof | 2,383 | 0 (| | Humidif | 0.0 | 0 | 0.0 | 0.0 |
| | | | | | | | | | Wall | 6,792 | 2,438 36 | | Opt Vent | 0.0 | 0 | 0.0 | 0.0 |
| | | | | | | | | | Ext Door | . 0 | 0 (|) I I | Total | -153.8 | | | |

System Checksums

| rimer Nivel | | | | | | | | | | | | | | | Fan Co |
|-----------------|-------------------|-------------------|------------------|--------------------------------|----------|---------------------|-----------------|----------------------|--------------|-----------------|------------------------------|---------------------|----------------------|---------------------|--------------|
| | cc | OLING C | OIL PEAK | | | CLG SPACE | PEAK | | | HEATING (| COIL PEAK | | TEM | PERATURE | |
| P | eaked at Outsi | Time: de Air: | | /Hr: 5 / 17 HR: 84 / 83 / 2 | 16 | Mo/Hr: OADB: | Sum of Peaks | | | Mo/Hr: OADB: | Heating Design 32 | | SADB | Cooling 58.4 | Heatir 79 |
| | | Space | Plenum | Net | Percent | Space | Percent | | | Space Peak | Coil Peak | Dorcont | Ra Plenum Return | 75.4 75.4 | 69 69 |
| | Se | ens. + Lat. | Sens. + Lat | Total | Of Total | Sensible | Of Total | | | Space Sens | Tot Sens | | Ret/OA | 75.9 | 67 |
| | | Btu/h | Btu/h | Btu/h | (%): | Btu/h | (%) | | | Btu/h | Btu/h | | Fn MtrTD | 0.0 | 0 |
| nvelope Loads | s | | | | | | , | Envelope L | oads | | | , | Fn BldTD | 0.0 | 0 |
| Skylite Solar | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite S | | 0 | 0 | | Fn Frict | 0.0 | 0 |
| Skylite Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Skylite C | | 0 | 0 | | | | |
| Roof Cond | | 0 | 0 | 0 | 0 | 0 | 0 | Roof Con | | 0 | 0 | | | | |
| Glass Solar | | 63,306 | 0 | 63,306 | 11 | 103,582 | 25 | Glass So | | 0 | 0 | 0.00 | AI | RFLOWS | |
| Glass/Door Co | ond | 1,643 | 0 | 1,643 | 0 ; | 761 | 0 | | | -6,477 | -6,477 | | | Cooling | i Heat |
| Wall Cond | | 12,123 | 10,496 | 22,619 | 4: | 15,843 | 4 | | | -21,010 | -38,670 | | Diffuser | 27,065 | |
| Partition/Door | | 55,999 | | 55,999 | 10 | 44,719 | 11 | | Door | -213,681 | -213,681 | 68.18 | | | |
| Floor | | 0 | | 0 | 0 | 0 | 0 | Floor | | 0 | 0 | 0.00 | Terminal Main Fan | 27,065 27,065 | |
| Adjacent Floor | | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent | | 0 | 0 | | | | , |
| Infiltration | | 0 | | 0 | 0 | 0 | 0 | Infiltration | | 0 | 0 | | Sec Fan | 0 | |
| Sub Total ==> | | 133,071 | 10,496 | 143,566 | 25 : | 164,905 | 40 | ; Sub Tota | ==> | -241,168 | -258,828 | 82.59 | Nom Vent | 1,605 | |
| | | | | | | | | | | | | | AHU Vent | 1,605 | i 1, |
| iternal Loads | | | | | | | | Internal Loa | ds | | | | Infil | 0 |) |
| Lights | | 80.444 | 0 | 80.444 | 14 | 80.444 | 20 | Lights | | 0 | 0 | 0.00 | Min Stop/Rh | 0 |) |
| People | | 96,300 | 0 | 96,300 | 17 | | 13 | People | | 0 | 0 | | Return | 27.065 | 27, |
| Misc | | 107.509 | Ō | 107.509 | 19 | 107.509 | 26 | Misc | | 0 | ō | | Exhaust | 1,605 | |
| Sub Total ==> | | 284,254 | 0 | 284,254 | 50 | 241,454 | 59 | Sub Tota | | 0 | 0 | | Rm Exh | 0 | |
| Sub iolai | | 204,254 | 0 | 204,234 | 30 | 241,454 | 33 | . Gub rota | | U | 0 | 0.00 | Auxiliary | 0 |) |
| Ceiling Load | | 1,429 | -1.429 | 0 | 0 | 1,340 | 0 | Ceiling Loa | 1 | -2.325 | 0 | 0.00 | Leakage Dwn | ō |) |
| entilation Load | d | 0 | 0 | 137.643 | 24 | 0,540 | ő | Ventilation | | 0 | -55.487 | 17.70 | Leakage Ups | 0 | 1 |
| Adj Air Trans H | eat | 0 | | 0,010 | 0 | ő | 0 | Adj Air Tran | | 0 | 0 | 0 | Loundge opo | | |
| Dehumid. Ov Si | | U | | 0 | 0 | | U | Ov/Undr Siz | | 0 | 0 | | | | |
| ov/Undr Sizina | iziliy | 0 | | 0 | 0: | 0 | 0 | Exhaust He | | U | 909 | | FNOI | EERING C | 140 |
| xhaust Heat | | U | -559 | -559 | 0 | U | U | OA Preheat | | | 0 | | ENGIN | EERING C | NS |
| Sup. Fan Heat | | | -555 | 0 | 0: | | | RA Preheat | | | 0 | | | Cooling | Heati |
| Ret. Fan Heat | | | 0 | 0 | 0: | | | Additional | | | 0 | | % OA | 5.9 | |
| oct Heat Pkup | | | 0 | 0 | 0: | | | Additional | Circut | | | 0.00 | cfm/ft² | 2.30 | 2. |
| Inderfir Sup Ht | | | ū | ő | 0: | | | Underfir Su | n Ht Dkun | | 0 | 0.00 | cfm/ton | 574.93 | |
| upply Air Leal | | | 0 | 0 | 0 | | | Supply Air | | | 0 | 0.00 | ft²/ton | 250.34 | |
| apply All Leaf | uge | | · · | | ٠; | | | Supply All | Leanage | | Ü | 0.00 | Btu/hr-ft² | 47.93 | -26. |
| Grand Total == | > | 418,754 | 8,508 | 564,905 | 100.00 | 407,699 | 100.00 | Grand Tota | ==> | -243,493 | -313,405 | 100.00 | No. People | 214 | |
| | | | | COIL SELI | | | | | | AREAS | | Н | EATING COIL | SELECTIO | N |
| | Tota ton | I Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | | B/WB/HR °F gr/lb | Leave °F | DB/WB/HR °F gr/lb | | Gross Total | Glass ft ² (%) | | Capacity MBh | Coil Airflow cfm | Ent °F |
| Main Cla | 47.1 | 564.9 | 397.2 | 27.065 | 75.9 63 | 3.5 87.6 | 58.4 5 | 6.2 79.0 | Floor | 11.785 | | Main Htg | -313.4 | 27.065 | 67.2 |
| ux Clg | 0.0 | 0.0 | 0.0 | 27,003 | | 0.0 0.0 | | 0.0 0.0 | Part | 14,494 | | Aux Htg | 0.0 | 27,005 | 0.0 |
| opt Vent | 0.0 | 0.0 | 0.0 | 0 | | 0.0 0.0 | | 0.0 0.0 | Int Door | 0 | | Preheat | 0.0 | 0 | 0.0 |
| | 0.0 | 0.0 | 0.0 | U | 0.0 (| J.U U.U | 0.0 | 0.0 | | 0 | | rieneat | 0.0 | U | 0.0 |
| pr vent | | | | | | | | | | | | | | | |
| | 47.1 | 564.0 | | | | | | | ExFIr | U | 0 0 | Humidif | 0.0 | 0 | 0.0 |
| Total | 47.1 | 564.9 | | | | | | | Roof Wall | ō | | Humidif Opt Vent | 0.0 | 0 | 0.0 |

SYSTEM LOAD PROFILES

By Trane

Planta Baja Planta Baja

| Percent | Percent Cooling Load | | H | eating Lo | ad | Co | low | Heating Airflow | | | | |
|----------------|----------------------|--------------|-------|----------------|--------------|-------|---------------|-----------------|-------|---------------|--------------|-------|
| Design Load | Cap. (Tons) | Hours (%) | Hours | Cap. (Btuh) | Hours (%) | Hours | Cap. (Cfm) | Hours (%) | Hours | Cap. (Cfm) | Hours (%) | Hours |
| 0 - 5 | 2.8 | 0 | 0 | -7,687.5 | 0 | 0 | 1,726.8 | 0 | 0 | 0.0 | 0 | 0 |
| 5 - 10 | 5.6 | 0 | 0 | -15,375.1 | 0 | 0 | 3,453.5 | 0 | 0 | 0.0 | 0 | 0 |
| 10 - 15 | 8.5 | 0 | 0 | -23,062.6 | 0 | 0 | 5,180.3 | 0 | 0 | 0.0 | 0 | 0 |
| 15 - 20 | 11.3 | 0 | 0 | -30,750.1 | 0 | 0 | 6,907.1 | 0 | 0 | 0.0 | 0 | 0 |
| 20 - 25 | 14.1 | 0 | 0 | -38,437.7 | 0 | 0 | 8,633.8 | 0 | 0 | 0.0 | 0 | 0 |
| 25 - 30 | 16.9 | 0 | 0 | -46,125.2 | 0 | 0 | 10,360.6 | 0 | 0 | 0.0 | 0 | 0 |
| 30 - 35 | 19.8 | 0 | 0 | -53,812.7 | 0 | 0 | 12,087.4 | 0 | 0 | 0.0 | 0 | 0 |
| 35 - 40 | 22.6 | 8 | 661 | -61,500.3 | 0 | 0 | 13,814.1 | 0 | 0 | 0.0 | 0 | 0 |
| 40 - 45 | 25.4 | 12 | 1,094 | -69,187.8 | 0 | 0 | 15,540.9 | 0 | 0 | 0.0 | 0 | 0 |
| 45 - 50 | 28.2 | 17 | 1,497 | -76,875.3 | 0 | 0 | 17,267.7 | 0 | 0 | 0.0 | 0 | 0 |
| 50 - 55 | 31.1 | 12 | 1,093 | -84,562.8 | 0 | 0 | 18,994.4 | 0 | 0 | 0.0 | 0 | 0 |
| 55 - 60 | 33.9 | 11 | 1,002 | -92,250.4 | 0 | 0 | 20,721.2 | 0 | 0 | 0.0 | 0 | 0 |
| 60 - 65 | 36.7 | 10 | 912 | -99,937.9 | 0 | 0 | 22,448.0 | 0 | 0 | 0.0 | 0 | 0 |
| 65 - 70 | 39.5 | 12 | 1,069 | -107,625.4 | 0 | 0 | 24,174.7 | 0 | 0 | 0.0 | 0 | 0 |
| 70 - 75 | 42.3 | 5 | 453 | -115,313.0 | 0 | 0 | 25,901.5 | 0 | 0 | 0.0 | 0 | 0 |
| 75 - 80 | 45.2 | 5 | 460 | -123,000.5 | 0 | 0 | 27,628.3 | 0 | 0 | 0.0 | 0 | 0 |
| 80 - 85 | 48.0 | 5 | 397 | -130,688.0 | 0 | 0 | 29,355.1 | 0 | 0 | 0.0 | 0 | 0 |
| 85 - 90 | 50.8 | 1 | 122 | -138,375.6 | 0 | 0 | 31,081.8 | 0 | 0 | 0.0 | 0 | 0 |
| 90 - 95 | 53.6 | 0 | 0 | -146,063.1 | 0 | 0 | 32,808.6 | 0 | 0 | 0.0 | 0 | 0 |
| 95 - 100 | 56.5 | 0 | 0 | -153,750.6 | 0 | 0 | 34,535.4 | 100 | 8,760 | 0.0 | 0 | 0 |
| Hours Off | 0.0 | 0 | 0 | 0.0 | 0 | 8.760 | 0.0 | 0 | 0 | 0.0 | 0 | 8.760 |

SYSTEM LOAD PROFILES

By Trane

Planta Baja System Totals

| Percent | Co | oling Lo | ad | H | eating Lo | oad | Co | oling Air | low | He | ating Air | flow |
|----------------|----------------|--------------|-------|----------------|--------------|-------|---------------|--------------|-------|---------------|--------------|-------|
| Design Load | Cap. (Tons) | Hours (%) | Hours | Cap. (Btuh) | Hours (%) | Hours | Cap. (Cfm) | Hours (%) | Hours | Cap. (Cfm) | Hours (%) | Hours |
| 0 - 5 | 2.8 | 0 | 0 | -7,687.5 | 0 | 0 | 1,726.8 | 0 | 0 | 0.0 | 0 | 0 |
| 5 - 10 | 5.6 | 0 | 0 | -15,375.1 | 0 | 0 | 3,453.5 | 0 | 0 | 0.0 | 0 | 0 |
| 10 - 15 | 8.5 | 0 | 0 | -23,062.6 | 0 | 0 | 5,180.3 | 0 | 0 | 0.0 | 0 | 0 |
| 15 - 20 | 11.3 | 0 | 0 | -30,750.1 | 0 | 0 | 6,907.1 | 0 | 0 | 0.0 | 0 | 0 |
| 20 - 25 | 14.1 | 0 | 0 | -38,437.7 | 0 | 0 | 8,633.8 | 0 | 0 | 0.0 | 0 | 0 |
| 25 - 30 | 16.9 | 0 | 0 | -46,125.2 | 0 | 0 | 10,360.6 | 0 | 0 | 0.0 | 0 | 0 |
| 30 - 35 | 19.8 | 0 | 0 | -53,812.7 | 0 | 0 | 12,087.4 | 0 | 0 | 0.0 | 0 | 0 |
| 35 - 40 | 22.6 | 8 | 661 | -61,500.3 | 0 | 0 | 13,814.1 | 0 | 0 | 0.0 | 0 | 0 |
| 40 - 45 | 25.4 | 12 | 1,094 | -69,187.8 | 0 | 0 | 15,540.9 | 0 | 0 | 0.0 | 0 | 0 |
| 45 - 50 | 28.2 | 17 | 1,497 | -76,875.3 | 0 | 0 | 17,267.7 | 0 | 0 | 0.0 | 0 | 0 |
| 50 - 55 | 31.1 | 12 | 1,093 | -84,562.8 | 0 | 0 | 18,994.4 | 0 | 0 | 0.0 | 0 | 0 |
| 55 - 60 | 33.9 | 11 | 1,002 | -92,250.4 | 0 | 0 | 20,721.2 | 0 | 0 | 0.0 | 0 | 0 |
| 60 - 65 | 36.7 | 10 | 912 | -99,937.9 | 0 | 0 | 22,448.0 | 0 | 0 | 0.0 | 0 | 0 |
| 65 - 70 | 39.5 | 12 | 1,069 | -107,625.4 | 0 | 0 | 24,174.7 | 0 | 0 | 0.0 | 0 | 0 |
| 70 - 75 | 42.3 | 5 | 453 | -115,313.0 | 0 | 0 | 25,901.5 | 0 | 0 | 0.0 | 0 | 0 |
| 75 - 80 | 45.2 | 5 | 460 | -123,000.5 | 0 | 0 | 27,628.3 | 0 | 0 | 0.0 | 0 | 0 |
| 80 - 85 | 48.0 | 5 | 397 | -130,688.0 | 0 | 0 | 29,355.1 | 0 | 0 | 0.0 | 0 | 0 |
| 85 - 90 | 50.8 | 1 | 122 | -138,375.6 | 0 | 0 | 31,081.8 | 0 | 0 | 0.0 | 0 | 0 |
| 90 - 95 | 53.6 | 0 | 0 | -146,063.1 | 0 | 0 | 32,808.6 | 0 | 0 | 0.0 | 0 | 0 |
| 95 - 100 | 56.5 | 0 | 0 | -153,750.6 | 0 | 0 | 34,535.4 | 100 | 8,760 | 0.0 | 0 | 0 |
| Hours Off | 0.0 | 0 | 0 | 0.0 | 0 | 8,760 | 0.0 | 0 | 0 | 0.0 | 0 | 8,760 |

SYSTEM LOAD PROFILES

By Trane

Primer Nivel Primer Nivel

| Percent | | | He | eating Lo | oad | Cooling Airflow | | | Heating Airflow | | | |
|----------------|----------------|--------------|-------|----------------|--------------|-----------------|---------------|--------------|-----------------|---------------|--------------|-------|
| Design Load | Cap. (Tons) | Hours (%) | Hours | Cap. (Btuh) | Hours (%) | Hours | Cap. (Cfm) | Hours (%) | Hours | Cap. (Cfm) | Hours (%) | Hours |
| 0 - 5 | 2.4 | 0 | 0 | -15,670.3 | 66 | 757 | 1,353.3 | 0 | 0 | 0.0 | 0 | 0 |
| 5 - 10 | 4.7 | 2 | 186 | -31,340.5 | 34 | 394 | 2,706.5 | 0 | 0 | 0.0 | 0 | 0 |
| 10 - 15 | 7.1 | 8 | 688 | -47,010.8 | 0 | 0 | 4,059.8 | 0 | 0 | 0.0 | 0 | 0 |
| 15 - 20 | 9.4 | 8 | 728 | -62,681.0 | 0 | 0 | 5,413.1 | 0 | 0 | 0.0 | 0 | 0 |
| 20 - 25 | 11.8 | 13 | 1,129 | -78,351.3 | 0 | 0 | 6,766.3 | 0 | 0 | 0.0 | 0 | 0 |
| 25 - 30 | 14.1 | 11 | 971 | -94,021.5 | 0 | 0 | 8,119.6 | 0 | 0 | 0.0 | 0 | 0 |
| 30 - 35 | 16.5 | 8 | 733 | -109,691.8 | 0 | 0 | 9,472.8 | 0 | 0 | 0.0 | 0 | 0 |
| 35 - 40 | 18.8 | 8 | 733 | -125,362.0 | 0 | 0 | 10,826.1 | 0 | 0 | 0.0 | 0 | 0 |
| 40 - 45 | 21.2 | 8 | 741 | -141,032.3 | 0 | 0 | 12,179.4 | 0 | 0 | 0.0 | 0 | 0 |
| 45 - 50 | 23.5 | 5 | 455 | -156,702.5 | 0 | 0 | 13,532.6 | 0 | 0 | 0.0 | 0 | 0 |
| 50 - 55 | 25.9 | 5 | 458 | -172,372.8 | 0 | 0 | 14,885.9 | 0 | 0 | 0.0 | 0 | 0 |
| 55 - 60 | 28.3 | 4 | 366 | -188,043.0 | 0 | 0 | 16,239.1 | 0 | 0 | 0.0 | 0 | 0 |
| 60 - 65 | 30.6 | 4 | 318 | -203,713.3 | 0 | 0 | 17,592.4 | 0 | 0 | 0.0 | 0 | 0 |
| 65 - 70 | 33.0 | 3 | 275 | -219,383.5 | 0 | 0 | 18,945.7 | 0 | 0 | 0.0 | 0 | 0 |
| 70 - 75 | 35.3 | 3 | 269 | -235,053.8 | 0 | 0 | 20,298.9 | 0 | 0 | 0.0 | 0 | 0 |
| 75 - 80 | 37.7 | 4 | 344 | -250,724.0 | 0 | 0 | 21,652.2 | 0 | 0 | 0.0 | 0 | 0 |
| 80 - 85 | 40.0 | 2 | 213 | -266,394.3 | 0 | 0 | 23,005.5 | 0 | 0 | 0.0 | 0 | 0 |
| 85 - 90 | 42.4 | 2 | 153 | -282,064.5 | 0 | 0 | 24,358.7 | 0 | 0 | 0.0 | 0 | 0 |
| 90 - 95 | 44.7 | 0 | 0 | -297,734.8 | 0 | 0 | 25,712.0 | 0 | 0 | 0.0 | 0 | 0 |
| 95 - 100 | 47.1 | 0 | 0 | -313,405.0 | 0 | 0 | 27,065.2 | 100 | 8,760 | 0.0 | 0 | 0 |
| Hours Off | 0.0 | 0 | 0 | 0.0 | 0 | 7,609 | 0.0 | 0 | 0 | 0.0 | 0 | 8,760 |

SYSTEM LOAD PROFILES

By Trane

Primer Nivel System Totals

| Percent | Co | ooling Lo | ad | He | eating Lo | oad | Co | oling Air | low | He | ating Air | flow |
|----------------|----------------|--------------|-------|----------------|--------------|-------|---------------|--------------|-------|---------------|--------------|-------|
| Design Load | Cap. (Tons) | Hours (%) | Hours | Cap. (Btuh) | Hours (%) | Hours | Cap. (Cfm) | Hours (%) | Hours | Cap. (Cfm) | Hours (%) | |
| 0 - 5 | 2.4 | 0 | 0 | -15,670.3 | 66 | 757 | 1,353.3 | 0 | 0 | 0.0 | 0 | 0 |
| 5 - 10 | 4.7 | 2 | 186 | -31,340.5 | 34 | 394 | 2,706.5 | 0 | 0 | 0.0 | 0 | 0 |
| 10 - 15 | 7.1 | 8 | 688 | -47,010.8 | 0 | 0 | 4,059.8 | 0 | 0 | 0.0 | 0 | 0 |
| 15 - 20 | 9.4 | 8 | 728 | -62,681.0 | 0 | 0 | 5,413.1 | 0 | 0 | 0.0 | 0 | 0 |
| 20 - 25 | 11.8 | 13 | 1,129 | -78,351.3 | 0 | 0 | 6,766.3 | 0 | 0 | 0.0 | 0 | 0 |
| 25 - 30 | 14.1 | 11 | 971 | -94,021.5 | 0 | 0 | 8,119.6 | 0 | 0 | 0.0 | 0 | 0 |
| 30 - 35 | 16.5 | 8 | 733 | -109,691.8 | 0 | 0 | 9,472.8 | 0 | 0 | 0.0 | 0 | 0 |
| 35 - 40 | 18.8 | 8 | 733 | -125,362.0 | 0 | 0 | 10,826.1 | 0 | 0 | 0.0 | 0 | 0 |
| 40 - 45 | 21.2 | 8 | 741 | -141,032.3 | 0 | 0 | 12,179.4 | 0 | 0 | 0.0 | 0 | 0 |
| 45 - 50 | 23.5 | 5 | 455 | -156,702.5 | 0 | 0 | 13,532.6 | 0 | 0 | 0.0 | 0 | 0 |
| 50 - 55 | 25.9 | 5 | 458 | -172,372.8 | 0 | 0 | 14,885.9 | 0 | 0 | 0.0 | 0 | 0 |
| 55 - 60 | 28.3 | 4 | 366 | -188,043.0 | 0 | 0 | 16,239.1 | 0 | 0 | 0.0 | 0 | 0 |
| 60 - 65 | 30.6 | 4 | 318 | -203,713.3 | 0 | 0 | 17,592.4 | 0 | 0 | 0.0 | 0 | 0 |
| 65 - 70 | 33.0 | 3 | 275 | -219,383.5 | 0 | 0 | 18,945.7 | 0 | 0 | 0.0 | 0 | 0 |
| 70 - 75 | 35.3 | 3 | 269 | -235,053.8 | 0 | 0 | 20,298.9 | 0 | 0 | 0.0 | 0 | 0 |
| 75 - 80 | 37.7 | 4 | 344 | -250,724.0 | 0 | 0 | 21,652.2 | 0 | 0 | 0.0 | 0 | 0 |
| 80 - 85 | 40.0 | 2 | 213 | -266,394.3 | 0 | 0 | 23,005.5 | 0 | 0 | 0.0 | 0 | 0 |
| 85 - 90 | 42.4 | 2 | 153 | -282,064.5 | 0 | 0 | 24,358.7 | 0 | 0 | 0.0 | 0 | 0 |
| 90 - 95 | 44.7 | 0 | 0 | -297,734.8 | 0 | 0 | 25,712.0 | 0 | 0 | 0.0 | 0 | 0 |
| 95 - 100 | 47.1 | 0 | 0 | -313,405.0 | 0 | 0 | 27,065.2 | 100 | 8,760 | 0.0 | 0 | 0 |
| Hours Off | 0.0 | 0 | 0 | 0.0 | 0 | 7,609 | 0.0 | 0 | 0 | 0.0 | 0 | 8,760 |

CÁLCULO DE VENTILACIÓN

El cálculo de la ventilación para la renovación de aire exterior viene indicada en la hoja que indica "System Checksums" del Cálculo Térmico. El cálculo de las extracciones de aire se presenta la siguiente tabla:

| ID | DESCRIPCIÓN | AREA | V | VENTILACIÓN | Q _m CALCULO | Q _m DISEÑO | Q _m DISEÑO | VENT. | COMENTARIOS |
|-----------|--|----------------|---------|----------------------------|------------------------|-----------------------|-----------------------|-------|-------------|
| ID | DESCRIPCION | m ² | m³ | ach/mue/mch/m ² | m³/h | m³/h | cfm | FINAL | COWENTARIOS |
| EDIFICIO: | CENTRO DE ILIETICIA BENIAL FED | EDAL EN CELA | VA CHAN | ALLIATO | | | | | |
| PB | CENTRO DE JUSTICIA PENAL FEDI SANITARIO 1 | 3.34 | 7.35 | 20.00 | 146.96 | 147 | 86 | 20.00 | Ι |
| PD | SANTARIO I | 3.34 | 7.55 | 20.00 | 140.30 | 147 | 80 | 20.00 | |
| PB | SANITARIO 2 | 4.90 | 10.78 | 20.00 | 215.60 | 216 | 127 | 20.00 | |
| | | | | | | | | | |
| PB | SANITARIO MUJERES | 15.00 | 33.00 | 20.00 | 660.00 | 660 | 388 | 20.00 | |
| | | | | | | | | | |
| PB | SANITARIO HOMBRES | 13.00 | 28.60 | 20.00 | 572.00 | 572 | 337 | 20.00 | |
| | | | | | | | | | |
| PB | SANITARIO DISCAPACITADOS | 4.40 | 9.68 | 20.00 | 193.60 | 194 | 114 | 20.00 | |
| nn. | 4850 | 2.00 | 6.16 | 20.00 | 122.20 | 122 | 70 | 20.00 | |
| PB | ASEO | 2.80 | 6.16 | 20.00 | 123.20 | 123 | 73 | 20.00 | |
| PB | SANITARIO VISITAS MUJERES | 14.70 | 32.34 | 20.00 | 646.80 | 647 | 381 | 20.00 | |
| | SARTIANIO VISITAS MOSERES | 24170 | OZ.OT | 20.00 | 040.00 | 047 | 551 | 20.00 | |
| PB | SANITARIO VISITAS HOMBRES | 14.00 | 30.80 | 20.00 | 616.00 | 616 | 363 | 20.00 | |
| | | | | | | | | | |
| PB | SANITARIO SEGURIDAD | 2.50 | 5.50 | 20.00 | 110.00 | 110 | 65 | 20.00 | |
| | | | | | | | | | |
| 1N | SANITARIO VE-03 | 2.90 | 6.38 | 20.00 | 127.60 | 128 | 75 | 20.00 | |
| | | | | | | | | | |
| 1N | SANITARIO VE-04 | 3.10 | 6.82 | 20.00 | 136.40 | 136 | 80 | 20.00 | |
| | | | | | | | | | |
| 1N | SANITARIO VE-05 | 3.00 | 6.60 | 20.00 | 132.00 | 132 | 78 | 20.00 | |
| 111 | SANITARIO VE-06 | 2.10 | 6.00 | 20.00 | 126.40 | 126 | 00 | 20.00 | |
| 1N | SANITARIO VE-00 | 3.10 | 6.82 | 20.00 | 136.40 | 136 | 80 | 20.00 | |
| 1N | SANITARIO VE-07 | 3.00 | 6.60 | 20.00 | 132.00 | 132 | 78 | 20.00 | |
| 211 | SARTIANO VE O | 5.00 | 0.00 | 20.00 | 152.00 | 102 | ,,, | 20.00 | |
| 1N | SANITARIO MUJERES | 15.00 | 33.00 | 20.00 | 660.00 | 660 | 388 | 20.00 | |
| | | | | | | | | | |
| 1N | SANITARIO HOMBRES | 12.90 | 28.38 | 20.00 | 567.60 | 568 | 334 | 20.00 | |
| | | | | | | | | | |
| 1N | SANITARIO IMPUTADOS | 2.60 | 5.72 | 20.00 | 114.40 | 114 | 67 | 20.00 | |
| | | | | | | | | | |
| 1N | SANITARIO CUSTODIOS | 3.30 | 7.26 | 20.00 | 145.20 | 145 | 85 | 20.00 | |
| | | | | | | | | | |
| 1N | SANITARIO CUSTODIOS ESPERA | 3.50 | 7.70 | 20.00 | 154.00 | 154 | 91 | 20.00 | |
| 111 | CANUTADIO INSPITADOS DESCUADOS | 2.00 | 6.60 | 20.00 | 122.00 | 122 | 70 | 20.00 | |
| 1N | SANITARIO IMPUTADOS RESGUARDO | 3.00 | 6.60 | 20.00 | 132.00 | 132 | 78 | 20.00 | |

SELECCIÓN DE EQUIPOS

El sistema de aire acondicionado y calefacción da servicio a todo el inmueble garantizando las condiciones de confort para los usuarios tanto en verano como en invierno, el cual utiliza tecnología de punta con características que permite el ahorro de energía, el uso refrigerante ecológico R-410 y de alta eficiencia. El objetivo es reducir los costos operativos, el respeto al medio ambiente no dañando la capa de ozono y requieran menor carga de refrigerante en la operación de los equipos.

La tecnología utilizada para estos equipos es por expansión directa y de volumen variable (VRV- variable refrigerant volume) cuyas condensadoras son enfriadas por aire del tipo bomba de calor (heat pump). Todas las unidades condensadoras se conectan al sistema BMS (Bulding Manager System) del inmueble con protocolo abierto BACNET (Building Automation and Control Networks).

Los factores que determinaron la selección de la marca asignada de los equipos fue la eficiencia, garantías, vida útil, tiempos de entrega, disponibilidad de refacciones y servicio técnico.

SISTEMA VRV

System1--UC-PB-A

1.1 Data of ODU--AVWT-364U8SZA



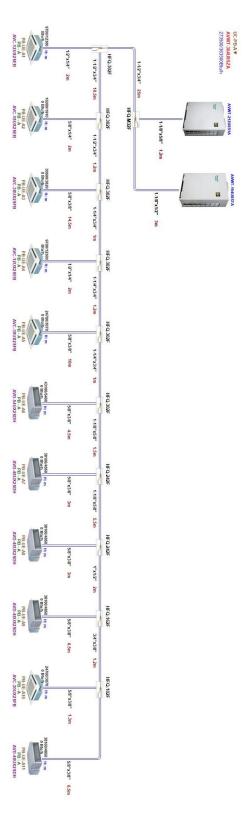
| Combination Index(Cooling/Heating) | 107.79/110.17 % | | Gas Pipe(inch) | 1-1/2" |
|---|-----------------------------|-----------------|-------------------|-----------|
| Cooling Capacity (Corrected/Rated)(Btu/h) | 273500/36350 0 | Connection Pipe | Liquid Pipe(inch) | 3/4" |
| Heating Capacity (Corrected/Rated)(Btu/h) | 342500/40610 0 | | Width(mm) | 1350+1210 |
| Power Supply | АС3Ф, 208V~230V/60 Hz | Dimension | Height(mm) | 1730 |
| Power Input(kW) | 32.70/31.40 | | Depth(mm) | 750 |
| Weight(Kg) | 727 | No | ise dB(A) | 72 |

1.2 Data of IDU

| Picture | Name | Room | Model | Cooling Capacity (Corrected/R ated)(Btu/h) | Heating Capacity (Corrected/R ated)(Btu/h) | Size_HWD (mm) | Weight (kg) | Controlle r | Power Input (kW) | Noise dB(A) | Airflow (m³/h) |
|---------------|-----------|----------------------|------------------|---|---|-----------------------|-------------|----------------|------------------------|---------------------|-------------------|
| 2.00 | | | | | | | | | | | |
| | PB-UE-A1 | PB - A | AVC- 12UX2SEB | 9700/12300 | 11500/14300 | 248*840*840 | 22 | HYXE-J01H | 0.05 | 31-29-27 | 900 |
| tomamos los v | /alores d | el ejem _l | olo del cá | lculo térmi | co: Qt=700 | 0BTU/Hr, Qs | =5300B | TU/Hr, 3 | 48CFM | (591m3 _, | /h) |
| | PB-UE-A2 | PB - A | AVC- 18UX2SEB | 15000/19100 | 17800/22200 | 248*840*840 | 23 | HYXE-J01H | 0.05 | 32-30-27 | 960 |
| | PB-UE-A3 | PB - A | AVC- 38UX2SFB | 30600/38200 | 35500/44400 | 298*840*840 | 27 | HYXE-J01H | 0.11 | 41-38-35 | 1920 |
| | PB-UE-A4 | PB - A | AVC- 12UX2SEB | 9700/12300 | 11500/14300 | 248*840*840 | 22 | HYXE-J01H | 0.05 | 31-29-27 | 900 |
| | PB-UE-A5 | PB - A | AVC- 30UX2SFB | 24700/30700 | 27300/34100 | 298*840*840 | 24 | HYXE-J01H | 0.09 | 36-34-32 | 1560 |
| | PB-UE-A6 | PB - A | AVD- 54UX2SDH | 43100/54600 | 49200/61400 | 350*(1300+75)*80 0 | 56 | HYXE-J01H | 0.41 | 45-42-38 | 2200 |
| | PB-UE-A7 | PB - A | AVD- 48UX2SDH | 38100/48500 | 44600/55600 | 350*(1300+75)*80 0 | 56 | HYXE-J01H | 0.41 | 44-41-36 | 2150 |
| | PB-UE-A8 | PB - A | AVD- 48UX2SDH | 38100/48500 | 44600/55600 | 350*(1300+75)*80 0 | 56 | HYXE-J01H | 0.41 | 44-41-36 | 2150 |

| PB-UE-A9 | PB - A | AVD- 48UX2SDH | 38100/48500 | 44600/55600 | 350*(1300+75)*80 0 | 56 | HYXE-J01H | 0.41 | 44-41-36 | 2150 |
|-----------|--------|------------------|-------------|-------------|-----------------------|----|-----------|------|----------|------|
| PB-UE-A10 | PB - A | AVC- 30UX2SFB | 24700/30700 | 27300/34100 | 298*840*840 | 24 | HYXE-J01H | 0.09 | 36-34-32 | 1560 |
| PB-UE-A11 | PB - A | AVD- 48UX2SDH | 38100/48500 | 44600/55600 | 350*(1300+75)*80 0 | 56 | HYXE-J01H | 0.41 | 44-41-36 | 2150 |

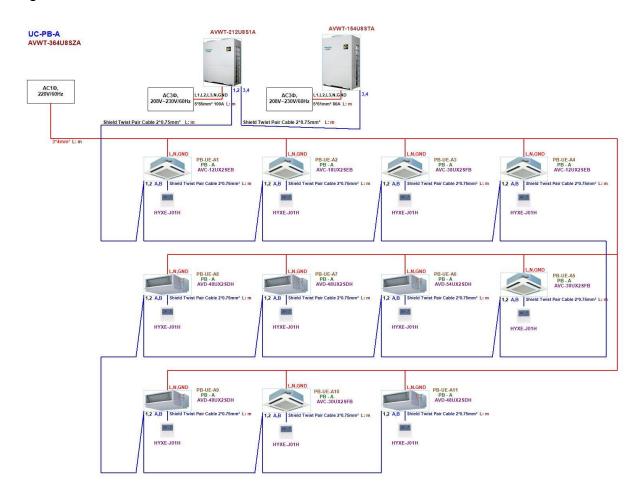
1.3 Piping



| Refrigerant Charged | |
|------------------------------|---------|
| Initial Refrigerant Charged: | 28.7 kg |
| To be Provided: | 17 kg |
| Total | 45.7 kg |

| Liquid Pipe (inch) | Length (m) |
|-----------------------|---------------|
| 1/4" | 6 |
| 3/8" | 50.5 |
| 1/2" | 5 |
| 5/8" | 8.2 |
| 3/4" | 39.9 |

1.4 Wiring



2 System2--UC-PB-B

2.1 Data of ODU--AVWT-340U8SZA

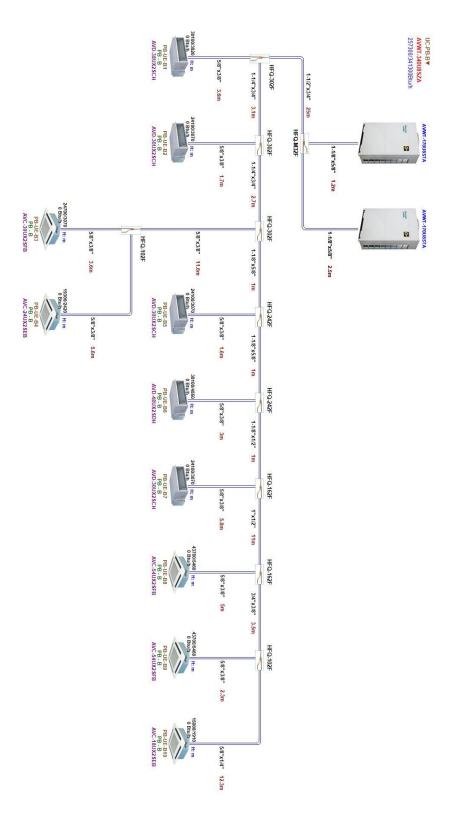


| Combination Index(Cooling/Heating) | 106.1/107.41% | | Gas Pipe(inch) | 1-1/2" |
|---|-----------------------------|-----------------|-------------------|-----------|
| Cooling Capacity (Corrected/Rated)(Btu/h) | 257300/34130 0 | Connection Pipe | Liquid Pipe(inch) | 3/4" |
| Heating Capacity (Corrected/Rated)(Btu/h) | 317900/38220 0 | | Width(mm) | 1210+1210 |
| Power Supply | АС3Ф, 208V~230V/60 Hz | Dimension | Height(mm) | 1730 |
| Power Input(kW) | 28.74/27.93 | | Depth(mm) | 750 |
| Weight(Kg) | 666 | No | 72 | |

2.2 Data of IDU

| Picture | Name | Room | Model | Cooling Capacity (Corrected/R ated)(Btu/h) | Heating Capacity (Corrected/R ated)(Btu/h) | Size_HWD (mm) | Weight (kg) | Controlle r | Power Input (kW) | Noise dB(A) | Airflow (m³/h) |
|---------|----------|--------|------------------|---|---|------------------|-------------|----------------|------------------------|----------------|-------------------|
| | PB-UE-B1 | PB - B | AVD- 38UX2SCH | 30100/38200 | 35500/44400 | 350*(900+75)*800 | 44 | HYXE-J01H | 0.29 | 43-40-36 | 1550 |
| | PB-UE-B2 | PB - B | AVD- 30UX2SCH | 24100/30700 | 27300/34100 | 350*(900+75)*800 | 44 | HYXE-J01H | 0.29 | 41-39-34 | 1550 |
| | PB-UE-B3 | PB - B | AVC- 30UX2SFB | 24700/30700 | 27300/34100 | 298*840*840 | 24 | HYXE-J01H | 0.09 | 36-34-32 | 1560 |
| | PB-UE-B4 | PB - B | AVC- 24UX2SEB | 19300/24200 | 23200/29000 | 248*840*840 | 23 | HYXE-J01H | 0.06 | 33-31-29 | 1200 |

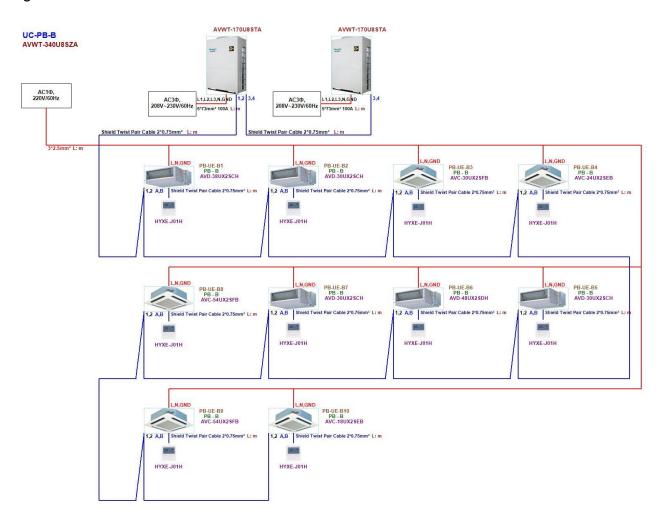
| PB-UE-B5 | PB - B | AVD- 30UX2SCH | 24100/30700 | 27300/34100 | 350*(900+75)*800 | 44 | HYXE-J01H | 0.29 | 41-39-34 | 1550 |
|-----------|--------|------------------|-------------|-------------|-----------------------|----|-----------|------|----------|------|
| PB-UE-B6 | PB - B | AVD- 48UX2SDH | 38100/48500 | 44600/55600 | 350*(1300+75)*80 0 | 56 | HYXE-J01H | 0.41 | 44-41-36 | 2150 |
| PB-UE-B7 | PB - B | AVD- 30UX2SCH | 24100/30700 | 27300/34100 | 350*(900+75)*800 | 44 | HYXE-J01H | 0.29 | 41-39-34 | 1550 |
| PB-UE-B8 | PB - B | AVC- 54UX2SFB | 43700/54600 | 49200/61400 | 298*840*840 | 27 | HYXE-J01H | 0.15 | 44-42-38 | 2220 |
| PB-UE-B9 | PB - B | AVC- 54UX2SFB | 43700/54600 | 49200/61400 | 298*840*840 | 27 | HYXE-J01H | 0.15 | 44-42-38 | 2220 |
| PB-UE-B10 | PB - B | AVC- 18UX2SEB | 15000/19100 | 17800/22200 | 248*840*840 | 23 | HYXE-J01H | 0.05 | 32-30-27 | 960 |



| Refrigerant Charged | | | | | | | |
|------------------------------|---------|--|--|--|--|--|--|
| Initial Refrigerant Charged: | 27.4 kg | | | | | | |
| To be Provided: | 14.9 kg | | | | | | |
| Total | 42.3 kg | | | | | | |

| Liquid Pipe (inch) | Length (m) |
|-----------------------|---------------|
| 1/4" | 12.3 |
| 3/8" | 47.3 |
| 1/2" | 12 |
| 5/8" | 5.7 |
| 3/4" | 30.8 |

2.4 Wiring



3 System3--UC-1N-A

3.1 Data of ODU--AVWT-382U8SZA



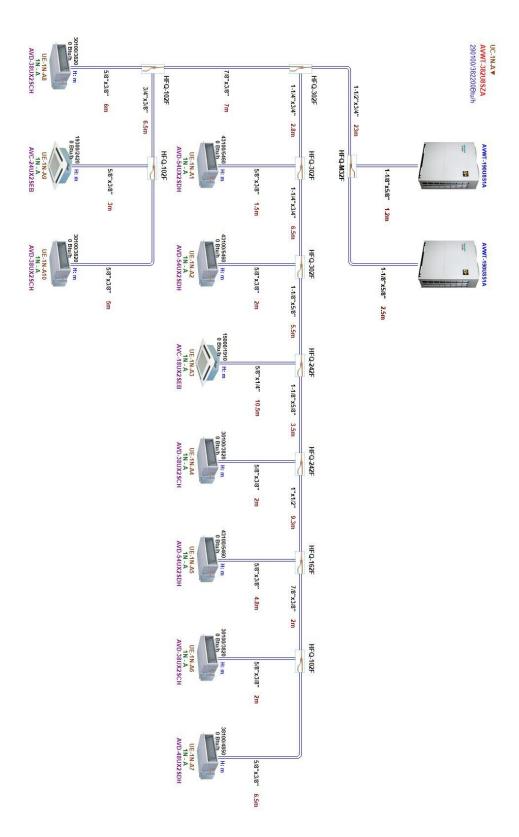
| Combination Index(Cooling/Heating) | 106.88/108.97 % | Connection Pipe | Gas Pipe(inch) | 1-1/2" |
|--|-----------------------------|-----------------|-------------------|-----------|
| Cooling Capacity (Corrected/Rated)(Btu/h) | 290100/38220 0 | Connection ripe | Liquid Pipe(inch) | 3/4" |
| Heating Capacity (Corrected/Rated)(Btu/h) | 360400/43000 0 | | Width(mm) | 1350+1350 |
| Power Supply | АС3Ф, 208V~230V/60 Hz | Dimension | Height(mm) | 1730 |
| Power Input(kW) | 32.84/32.81 | | Depth(mm) | 750 |
| Weight(Kg) | 788 | No | 74 | |

3.2 Data of IDU

| Picture | Name | Room | Model | Cooling Capacity (Corrected/R ated)(Btu/h) | Heating Capacity (Corrected/R ated)(Btu/h) | Size_HWD (mm) | Weight (kg) | Controlle r | Power Input (kW) | Noise dB(A) | Airflow (m³/h) |
|---------|----------|--------|------------------|---|---|-----------------------|-------------|----------------|------------------------|----------------|-------------------|
| | UE-1N-A1 | 1N - A | AVD- 54UX2SDH | 43100/54600 | 49200/61400 | 350*(1300+75)*80 0 | 56 | HYXE-J01H | 0.41 | 45-42-38 | 2200 |
| | UE-1N-A2 | 1N - A | AVD- 54UX2SDH | 43100/54600 | 49200/61400 | 350*(1300+75)*80 0 | 56 | HYXE-J01H | 0.41 | 45-42-38 | 2200 |
| | UE-1N-A3 | 1N - A | AVC- 18UX2SEB | 15000/19100 | 17800/22200 | 248*840*840 | 23 | HYXE-J01H | 0.05 | 32-30-27 | 960 |
| | UE-1N-A4 | 1N - A | AVD- 38UX2SCH | 30100/38200 | 35500/44400 | 350*(900+75)*800 | 44 | HYXE-J01H | 0.29 | 43-40-36 | 1550 |

| UE-1N-A5 | 1N - A | AVD- 54UX2SDH | 43100/54600 | 49200/61400 | 350*(1300+75)*80 0 | 56 | HYXE-J01H | 0.41 | 45-42-38 | 2200 |
|-----------|--------|------------------|-------------|-------------|-----------------------|----|-----------|------|----------|------|
| UE-1N-A6 | 1N - A | AVD- 38UX2SCH | 30100/38200 | 35500/44400 | 350*(900+75)*800 | 44 | HYXE-J01H | 0.29 | 43-40-36 | 1550 |
| UE-1N-A7 | 1N - A | AVD- 48UX2SDH | 38100/48500 | 44600/55600 | 350*(1300+75)*80 0 | 56 | HYXE-J01H | 0.41 | 44-41-36 | 2150 |
| UE-1N-A8 | 1N - A | AVD- 38UX2SCH | 30100/38200 | 35500/44400 | 350*(900+75)*800 | 44 | HYXE-J01H | 0.29 | 43-40-36 | 1550 |
| UE-1N-A9 | 1N - A | AVC- 24UX2SEB | 19300/24200 | 23200/29000 | 248*840*840 | 23 | HYXE-J01H | 0.06 | 33-31-29 | 1200 |
| UE-1N-A10 | 1N - A | AVD- 38UX2SCH | 30100/38200 | 35500/44400 | 350*(900+75)*800 | 44 | HYXE-J01H | 0.29 | 43-40-36 | 1550 |

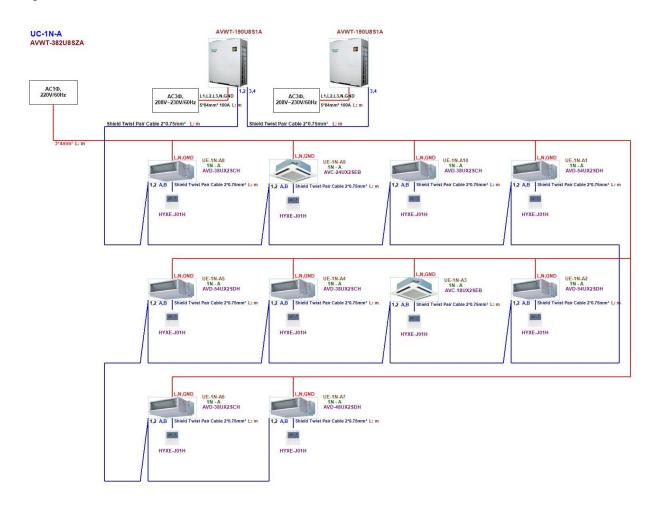
3.3 Piping



| Refrigerant Charged | | | | | | | |
|------------------------------|---------|--|--|--|--|--|--|
| Initial Refrigerant Charged: | 31.4 kg | | | | | | |
| To be Provided: | 16.3 kg | | | | | | |
| Total | 47.7 kg | | | | | | |

| Liquid Pipe (inch) | Length (m) |
|-----------------------|---------------|
| 1/4" | 10.5 |
| 3/8" | 48.3 |
| 1/2" | 9.3 |
| 5/8" | 12.7 |
| 3/4" | 32.3 |

3.4 Wiring



System4--UC-1N-B

4.1 Data of ODU--AVWT-212U8S1A

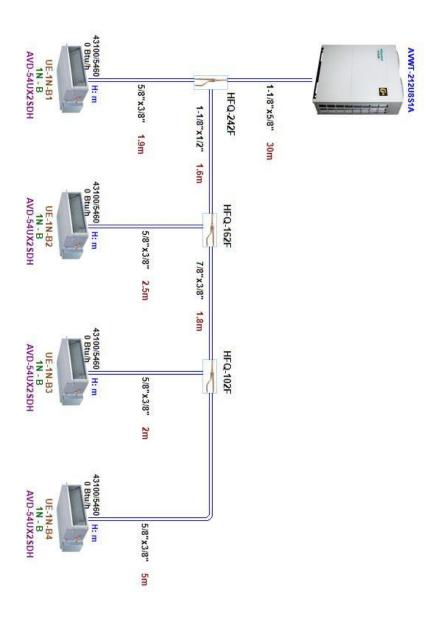


| Combination Index(Cooling/Heating) | 104.07/104.35 % | Connection Pipe | Gas Pipe(inch) | 1-1/8" |
|--|-----------------------------|-----------------|-------------------|--------|
| Cooling Capacity (Corrected/Rated)(Btu/h) | 158300/20990 0 | Connection ripe | Liquid Pipe(inch) | 5/8" |
| Heating Capacity (Corrected/Rated)(Btu/h) | 193000/23550 0 | | Width(mm) | 1350 |
| Power Supply | АС3Ф, 208V~230V/60 Hz | Dimension | Height(mm) | 1730 |
| Power Input(kW) | 20.10/19.11 | | Depth(mm) | 750 |
| Weight(Kg) | 395 | No | 69 | |

4.2 Data of IDU

| Picture | Name | Room | Model | Cooling Capacity (Corrected/R ated)(Btu/h) | Heating Capacity (Corrected/R ated)(Btu/h) | Size_HWD (mm) | Weight (kg) | Controlle r | Power Input (kW) | Noise dB(A) | Airflow (m³/h) |
|---------|----------|--------|------------------|---|---|-----------------------|-------------|----------------|------------------------|----------------|-------------------|
| | UE-1N-B1 | 1N - B | AVD- 54UX2SDH | 43100/54600 | 49200/61400 | 350*(1300+75)*80 0 | 56 | HYXE-J01H | 0.41 | 45-42-38 | 2200 |
| | UE-1N-B2 | 1N - B | AVD- 54UX2SDH | 43100/54600 | 49200/61400 | 350*(1300+75)*80 0 | 56 | HYXE-J01H | 0.41 | 45-42-38 | 2200 |
| | UE-1N-B3 | 1N - B | AVD- 54UX2SDH | 43100/54600 | 49200/61400 | 350*(1300+75)*80 0 | 56 | HYXE-J01H | 0.41 | 45-42-38 | 2200 |
| | UE-1N-B4 | 1N - B | AVD- 54UX2SDH | 43100/54600 | 49200/61400 | 350*(1300+75)*80 0 | 56 | HYXE-J01H | 0.41 | 45-42-38 | 2200 |

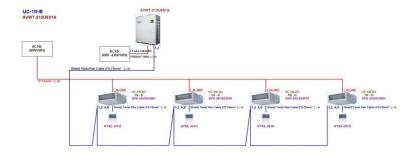




| Refrigerant Charge | ed |
|------------------------------|---------|
| Initial Refrigerant Charged: | 16.2 kg |
| To be Provided: | 7.2 kg |
| Total | 23.4 kg |

| Liquid Pipe (inch) | Length (m) |
|-----------------------|---------------|
| 3/8" | 13.2 |
| 1/2" | 1.6 |
| 5/8" | 30 |

4.4 Wiring



4.Central Control



EQUIPO DE PRECISIÓN



Prepared on: Project: Worksheet:

EV-1118-17 CONSEJO DE LA JUDICATURA

| | Evaporator Sec | tion | | |
|--------------------------------------|---|-------------------|--------------------------|-----------------------------|
| | GTAD-02832-AO | GT AIR DOWNFLOW 2 | 3KW 3PH 208-230 V W/DRCU | _ |
| | Evap. Tag #: | | | |
| | Quantity: | 2 | | |
| | Voltage: | 208 | | |
| | Phase: | 3 | | |
| | Hertz: | 60 | | |
| | Color: | COLOR-BLACK | | |
| Cabinet Data: | | | | |
| | Configuration: | Downflow | | |
| | Depth (in.): | 40.50 | | |
| | Length (in.): | 53.50 | | |
| | Height (in.): Shipping Weight (lbs): | 78.00 875 | | |
| Entering Air Conditions: | ** 0 0 1 7 | 75.0 | | |
| Entering Air Conditions. | Entering Air WB (°F): | 61.0 | | |
| | Relative Humidity (%): | 45.0 | | |
| | Altitude (ft): | 0 | | |
| Evaporator Coil | ()- | | | |
| Evaporator Con | Face Area (sq ft): | 12.20 | | |
| | Face Velocity (ft/min) | 360.7 | | |
| | Rows: | 3 | | |
| | Fins per (in.): | 12.0 | | |
| | Fin Type: | Aluminum | | |
| Calculated Date | a Gross Total Capacity (Btu/hr): | 102,400 | | |
| | Gross Sensible Capacity (Btu/l | | | |
| | Net Total Capacity (Btu/hr): | 93,200 | narámat | rac principalac para la |
| | Net Sensible Capacity | 89,500 | paramet | ros principales para la |
| | Air Out Dry Bulb (°F): | 56.2 | selecció | n del equipo (de |
| | Air Out Wet Bulb (°F): | 53.6 | \ | • • • |
| * Net Coil Capacity equals gross cap | acity minus motor heat. | • | cálculo t | érmico: |
| | | | Ot=9290 | OBTU/Hr, |
| Evaporator EC Plug | CFM: | 4,400 | / ' | • • |
| | ESP (inch of water): | 0.50 | Qs=9180 | OOBTU/Hr, caudal de |
| L | Motor Horsepower: | 3.6 | | 20514 |
| | Motor FLA: | 8.0 | aire=501 | L3CFM, |
| | Motor Quantity: | 1 | TDC ==0 | 5 TD11 50 C ⁰ 5\ |
| | Blower Quantity: | 1 | TBS=55° | F,TBH=50.6°F) |
| | Air Flow: | Optional Airflow | | <u>-</u> |
| | Plug Fan (mm)/Motor (kW): | 500mm 2.8kW | | |
| Humidifier: | Type: | Steam Generator | | |
| | Capacity in (Lbs/hr): | 10.0 | | |
| | kW: | 3.4 | | |
| | KW: | 3.4 | | |



Prepared on: November 23, 2017

| kW: | 13.4 |
|--------------------|----------|
| Capacity (BTU/hr): | 45,700 |
| Reheat: Type: | Electric |

| Filters: | | Size 1 | Size 2 |
|-------------------|--------------------------|----------------|----------------|
| | Quantity: | 2 | — ₂ |
| | Size (inches): | 16" x 25" x 4" | 20" x 25" x 4" |
| | Efficiency: | MERV 8 | MERV 8 |
| Connection Sizes: | | | |
| | Liquid Line (in. Nom.): | 5/8 | |
| | Suction Line (in. Nom.): | 1 3/8 | |
| | Condensate (in. Nom.): | 3/4 | |
| | Humidifier (in. Nom.): | 1/4 | |
| Electrical Data: | | | |
| | Unit Total Amps: | 49.6 | |
| | Unit MCA: | 62.0 | |

Unit MOP: Controls: dap4 Microprocessor Controller

Accessories:

Model Number:
Tag Number:

GTAD-02832-AO GT AIR DOWNFLOW 28KW 3PH 208-230 V W/DRCU

| Tag N | umber: | |
|-------|-------------|--|
| Oty | Option | Description |
| 2 | OPT-5000 | 15KW Electric Reheat, 208/230V |
| 2 | OPT-7310 | dap4 |
| 2 | OPT-6511 | Plug Fan, 500 mm 2.8 kW, qty 1 |
| 2 | OPT-6612 | Nominal Capacity 28 kW |
| 2 | OPT-5221 | 3 Phase |
| 2 | OPT-5062 | Voltage 208V |
| 2 | OPT-6750 | Liquid Line Solenoid Valve, 1/2", Single Circuit |
| 2 | OPT-5047 | Black |
| 2 | OPT-5357 | Evaporator Coil |
| 2 | OPT-5760 | Air Flow - Optional #1 |
| 2 | OPT-6854 | MERV 8 Efficient Filters |
| 2 | OPT-81-230V | 10 lb/hr Steam Humidifier |
| 2 | OPT-6026 | Refrigerant R-410A |
| 2 | OPT-5823 | CIRCUIT-SINGLE |
| 2 | OPT-7673 | idap card for dap4/mini dap4 |
| 2 | OPT-7327 | Zone Master, dap4 |
| | | |



Updated on: 11/23/2017 Prepared on: November 23, 2017

| | | | - |
|--------------------|---------------------|-----------------------|----------------------|
| | | <u>idensing Unit</u> | |
| | Model #: | GHCU-03232 | |
| | gFORCE OUTDOOR R | EMOTE CONDENSING UNIT | 32 kW 3 PH 208-230 V |
| | HE Tag #: | | |
| | Qty: | 2 | |
| | Ambient: | 95 | |
| | Altitude (ft): | 0 | |
| | Voltage: | 208 | |
| | Phase: | 3 | |
| Electrical Section | FLA: | 35.9 | |
| | MCA: | 44.0 | |
| | MOP: | 70.0 | |
| C | | 70.0 | |
| Compressor: | Type: | Scro11 | |
| | Number: | Scion | |
| | Refrigerant Type: | REFRIGERANT, R-410A | |
| | FLA: | 32.6 | |
| | 11 | | |
| Connection Sizes | | | |
| | Liquid (in. Nom.): | 1/2 | |
| | Suction (in. Nom.): | 3/4 | |
| Condenser EC Ax | ial Fan | | |
| Condenser De III | Num Of Motors: | 1 | |
| | Number Of Fans: | 1 | |
| | HP | 1.5 | |
| | Motor FLA: | 3.28 | |
| | CFM: | 4,800 | |
| | RPM: | 1,400 | |
| Dimensions | | | |
| | Depth (in.): | 58 5 | |
| | Length (in.): | 48.5 | |
| | Height (in.): | 44.00 | |
| | e (). | 44.00 | |

Shipping Weight (lbs):

Remote Condensing Unit Accessories

Weight

| | Model Number: | GHCU-03232 | ACU-03232 |
|-----|---------------|--------------------------|--------------------------|
| | Tag Number: | | |
| Qty | Option | Description | Description |
| 2 | OPT-6145 | Single Scroll Compressor | Single Scroll Compressor |
| 2 | OPT-7716 | Frequency - 60 Hz | Frequency - 60 Hz |
| 2 | OPT-5958 | Ambient 95 | Ambient 95 |
| 2 | OPT-5221 | 3 Phase | 3 Phase |
| 2 | OPT-6100 | HEAT EXCHANGER QTY - 1 | HEAT EXCHANGER QTY - 1 |
| 2 | OPT-5062 | Voltage 208V | Voltage 208V |
| 2 | OPT-5823 | CIRCUIT-SINGLE | CIRCUIT-SINGLE |
| 2 | OPT-5906 | Condenser Coil | Condenser Coil |
| 2 | OPT-6026 | Refrigerant R-410A | Refrigerant R-410A |
| | | | |

VENTILADOR DE INYECCIÓN DE AIRE

CDAFH



CDAFH-18/18-1,5HP/4-450RPM-(208-230~3)

(S&P)

Unidades de ventilación diseñadas para la inyección y extracción de aire con etapas de filtación en descarga horizontal; su estructura está fabricada en lámina de acero galvanizada que la hacen un conjunto ideal para instalaciones en intemperie, marca S&P, modelo CDAFH-18/18-1,5HP/4-450rpm-(208-230-3), con caudal 3.167 cfm y presión 0,416 Inwg.

la renovación de aire es la suma de todos los sistemas

Referencia producto: VI-01

| Punto requerido | |
|------------------|--------------|
| Caudal | 3.105 cfm |
| Presión Estática | 0,400 Inwg |
| Temperatura | 30 °C |
| Altitud | 1752 m |
| Densidad | 0,95 Kg / m³ |
| Frecuencia | 60 Hz |

Punto de trabajo

Tensión

Persión estática 0.416 Inwg @ 0.95 kg/m²

Presión dinámica 0.057 Inwg @ 0.95 kg/m²

Presión total 0.473 Inwg @ 0.95 kg/m³

Potencia útil 0.430 Hp @ 0.95 kg/m³

208-230~3

Velocidad descarga 5,5 m/s Velocidad ventilador 450 rpm Potencia específica 0,34 W/l/s

Construcción

 Tamaño ventilador
 18/18

 Diámetro
 0

 Peso
 190,91 kg

Características del motor

 Número de Polos
 4

 Potencia motor
 1,5

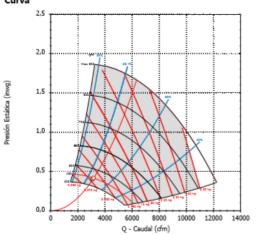
 Velocidad motor
 1755 rpm

 Tensión
 3-208-230/460V-60Hz

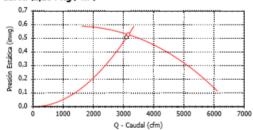
 Intensidad máxima absorbida
 4,3 A / 2,2 A

 Índice de protección
 IP54

Curva



Curva (1,204 Kg / m³)



Características acústicas

Dimensiones



| | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Total |
|-----------------------|----|-----|-----|-----|----|----|----|----|-------|
| Aspiración (LwA) | 50 | 49 | 52 | 52 | 56 | 55 | 52 | 39 | 61 |
| Aspiración LpA @ 1,5m | 35 | 34 | 37 | 37 | 41 | 40 | 37 | 24 | 47 |
| Descarga (LwA) | 61 | 60 | 63 | 63 | 67 | 66 | 63 | 50 | 72 |
| Descarga LpA @ 1,5m | 46 | 45 | 48 | 48 | 52 | 51 | 48 | 35 | 58 |

VENTILADOR DE EXTRACCIÓN DE AIRE

CRHL-T





CRHL-T-18-0,5HP/4-1125RPM-(208-230~3)

CRHL-T Extractor centrifugo de montaje en techo, con descarga horizontal, marca S&P, modelo CRHL-T-18-0,5HP/4-1125rpm-(208-230~3), con caudal 2.904 cfm y presión 0,451 Inwg. Cuentan con material en aluminio rechazado.

Referencia producto: VE-01

Punto requerido

 Caudal
 2.900 cfm

 Presión Estática
 0.450 Inwg

 Temperatura
 30 °C

 Altítud
 1.752 m

 Densidad
 0.95 Kg / m³

 Frecuencia
 60 Hz

 Tensión
 208-230~3

Punto de trabajo

Caudal 2.904 cfm

 Presión estática
 0.451 Inwg @ 0.95 kg/m²

 Presión dinámica
 0.086 Inwg @ 0.95 kg/m²

 Presión total
 0.537 Inwg @ 0.95 kg/m²

 Presión estática estándar
 0.571 Inwg @ 1.2 kg/m²

 Presión dinámica estándar
 0.109 Inwg @ 1.2 kg/m²

 Presión total estándar
 0.680 Inwg @ 1.2 kg/m²

Pot Elect absorbida 0,432 hp Rend Total 57,9 %

Potencia útil 0,425 Hp @ 0,95 kg/m³

 Potencia útill estándar
 0.538 Hp @ 1,2 kg/m³

 Rend Estático
 48,7 %

 Velocidad descarga
 6,7 m/s

 Velocidad aspiración
 9,5 m/s

 Velocidad ventilador
 1125 rpm

 Potencia específica
 0,37 W/l/s

Construcción

 Diámetro
 18 mm

 Tamaño ventilador
 18

 Peso
 46,68 kg

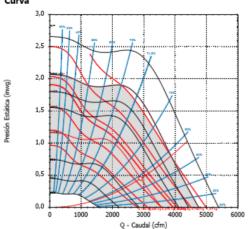
Características del motor

Número de Polos 4 Potencia motor 0,5

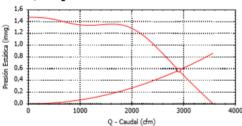
Tensión 3-208-230/460V-60Hz

Intensidad máxima absorbida 1,9 A / 1,0 A Índice de protección IP21 Clase motor B

Curva



Curva (1,204 Kg / m3)



Características acústicas

| | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Total |
|---------------------|----|-----|-----|-----|----|----|----|----|-------|
| Descarga (LwA) | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 82 |
| Descarga LpA @ 1,5m | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 68 |



CONCLUSIONES

Las conclusiones del presente trabajo son:

La aplicación de las nuevas tecnologías de sistemas de aire acondicionado y calefacción con refrigerante de volumen variable (VRV) con refrigerante ecológico, dan como resultado un ahorro de energía a cargas térmicas parciales, la ventaja de llevar un solo recorrido de tuberías de cobre e ir distribuyendo a las evaporadoras la tubería con el diámetro correspondiente.

El Poder Judicial de la Federación tiene muy claro las necesidades del nuevo Sistema Procesal Penal Acusatorio en cada entidad y en este caso se aplicaron condensadoras del tipo bomba de calor (Heat Pumps), en donde el sistema VRV podrá satisfacer las demandas del inmueble ya sea en modo enfriamiento o modo calefacción.

La ventaja de contar con un sistema de comunicación de monitoreo y control del sistema VRV enlazado al BMS del inmueble podrá ser manipulado desde un solo punto sin la necesidad de posicionarse en cada una de la condesadoras, se podrá ajustar los puntos de ajuste de cada unidad evaporadora, se podrá programar sus rutinas de mantenimiento, entre otras cualidades técnicas que le dan ventaja ante un sistema convencional de aire acondicionado por medio de un sistema de expansión directa (Dx).

Para el caso de las oficinas de titulares, cuarto de monitoreo se tienen sistemas Dx independientes conectados eléctricamente al sistema emergencia debido a la importancia de mantener funcional esas áreas. El mismo caso se aplico para el cuarto del Site con un sistema Dx, en donde las variables más notorias fueron el control con precisión de temperatura y humedad; con un equipo redundante de la misma capacidad y con una tarjeta de comunicación DAP4 que permite la comunicación entre las dos unidades y el BMS para su efectivo monitoreo y control.

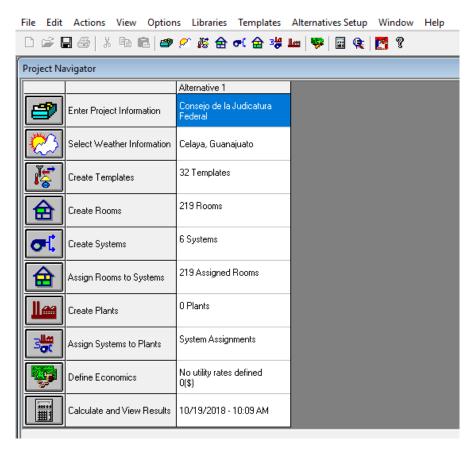
La renovación de aire es por medio de ventiladores que distribuye el aire a los puntos más cercanos a cada evaporador y se operan por medio un "timer" alojado en el cuarto de control; lo mismo ocurre para los ventiladores de extracción de aire. El monitoreo del estos ventiladores es por medio de una "dona" de corriente eléctrica la cual nos indica si los equipos están en operación.

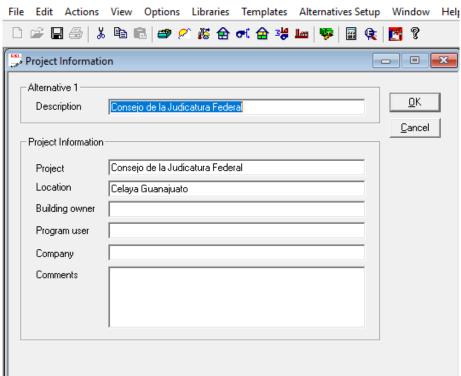
La experiencia obtenida en este proyecto fue la facilidad de modelar los sistemas VRV por medio del software del fabricante obteniendo grandes ahorros de tiempo en su implementación sin la necesidad de seleccionar manualmente a cada uno de sus dispositivos necesarios para su óptima operación.

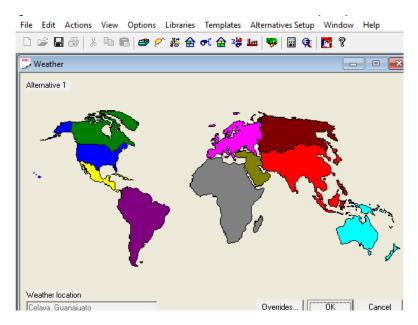
ANEXOS

ANEXOS 1.- se anexan planos que nos indican cómo fue su distribución de las unidades de acuerdo a los requerimientos arquitectónicos del inmueble.

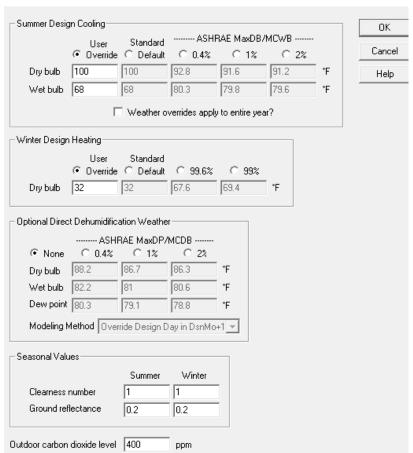
ANEXOS 2.- Software Tracer 700, plantillas para dar de alta el inmueble.

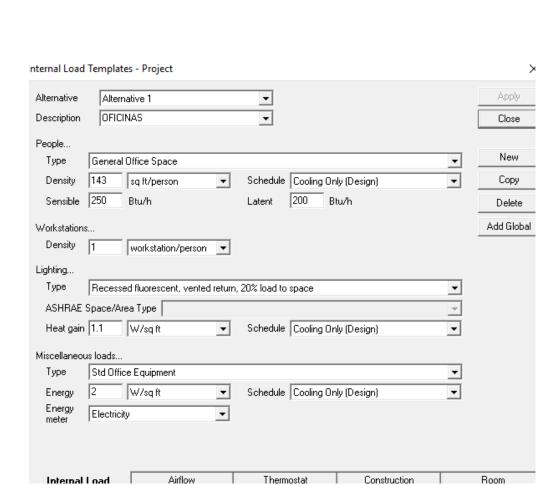


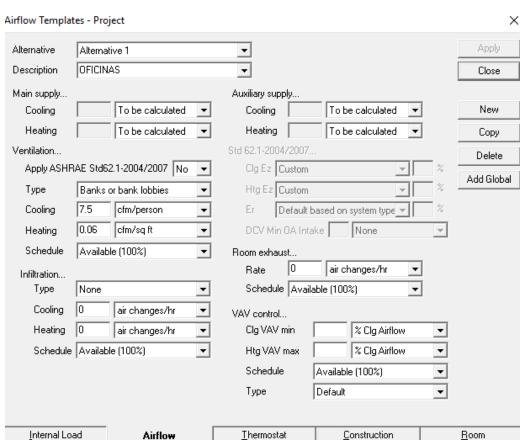


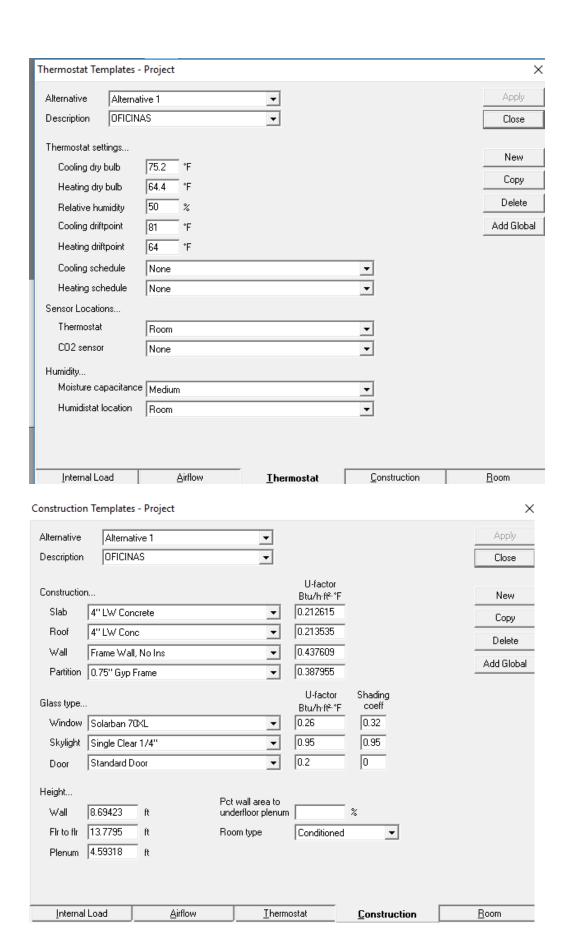


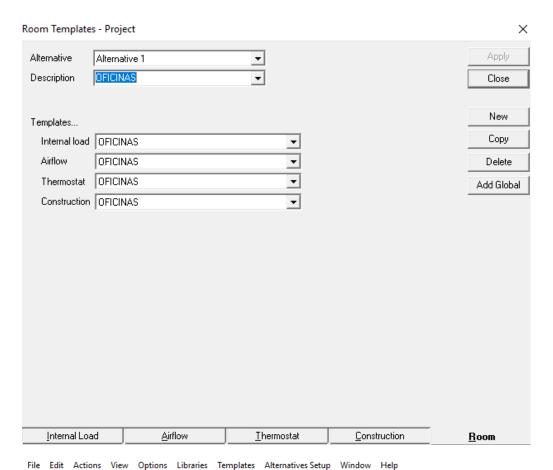
Weather Overrides

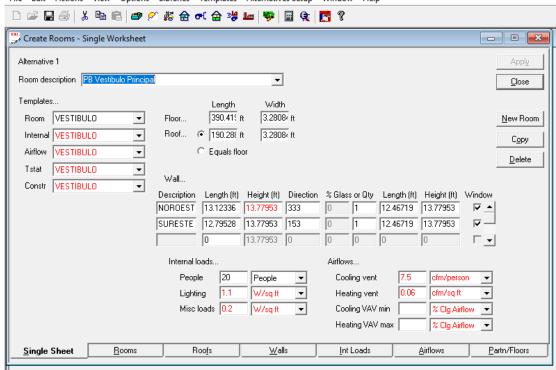


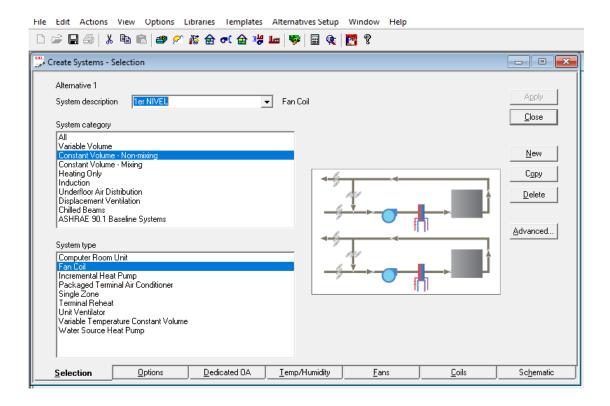


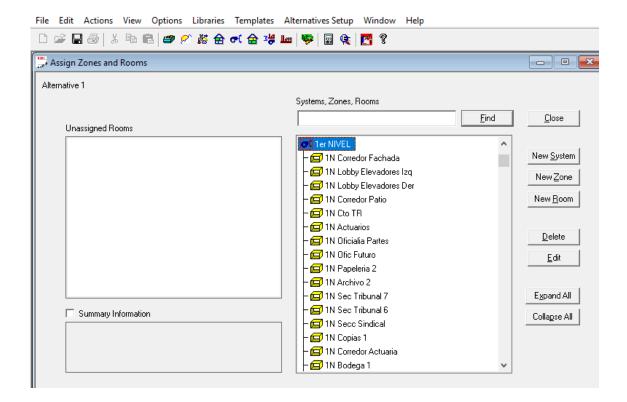












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| Zone checksums | Design heating capacity | Checksu |
| Room checksums | ☐ Engineering checks | Select. |
| Design cooling load | ☐ ASHRAE Std 62.1-2004 + | |
| System component selection | | |
| Psychrometric State Points | Peak Load Summary | |
| ☐ System | Main Aux | |
| Zone | Main Aux Cooling | |
| ☐ Room | □ □ Heating | |
| ☐ Auxiliary system | □ Load / Airflow | |
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| Heat Gain / Loss Cooling Heating Cooling At time of coil pea | Building Envelope Composition Building U-factors Building areas | |
| <u>D</u> esign Reports | <u>A</u> nalysis Reports | <u>D</u> etailed Reports |