

System Checksums

By Halberg Engineering, Inc.

| COOLING COIL PEAK | | | | CLG SPACE PEAK | | | | HEATING COIL PEAK | | | | TEMPERATURES | | | | |
|--------------------|-----------|----------|-----------|----------------|-----------|----------|--------------------|-------------------|-----------|----------|-----------|--------------|-----------|----------|-----------|----------|
| Peak at Time | Mo/Hr | 7/13 | Mo/Hr | 7/13 | Mo/Hr | 7/13 | Mo/Hr | 7/13 | Mo/Hr | 7/13 | Mo/Hr | 7/13 | Mo/Hr | 7/13 | Mo/Hr | 7/13 |
| Outside Air | OADB/WHHR | 03/74/96 | OADB/WHHR | 03/74/96 | OADB/WHHR | 03/74/96 | OADB/WHHR | 03/74/96 | OADB/WHHR | 03/74/96 | OADB/WHHR | 03/74/96 | OADB/WHHR | 03/74/96 | OADB/WHHR | 03/74/96 |
| Envelope Loads | | | | | | | | | | | | | | | | |
| Skyline Solar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Skyline Cond | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Glass Solar | 66,736 | 0 | 66,736 | 23 | 66,409 | 46 | Glass Solar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Glass/Door Cond | 7,865 | 0 | 7,865 | 3 | 4,581 | 2 | Glass/Door Cond | -25,640 | -25,640 | -25,640 | -25,640 | -25,640 | -25,640 | -25,640 | -25,640 | -25,640 |
| Wall Cond | 4,886 | 187 | 5,083 | 2 | 4,747 | 3 | Wall Cond | -11,288 | -11,288 | -11,288 | -11,288 | -11,288 | -11,288 | -11,288 | -11,288 | -11,288 |
| Partition/Door | 0 | 0 | 0 | 0 | 0 | 0 | Partition/Door | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Floor | 0 | 0 | 0 | 0 | 0 | 0 | Floor | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | Adjacent Floor | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Infiltration | 0 | 0 | 0 | 0 | 0 | 0 | Infiltration | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sub Total | 79,457 | 187 | 79,644 | 28 | 95,736 | 51 | Sub Total | -36,328 | -36,756 | 27,01 | | | | | | |
| Internal Loads | | | | | | | Internal Loads | | | | | | | | | |
| Lights | 43,567 | 0 | 43,567 | 15 | 43,567 | 23 | Lights | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| People | 53,208 | 0 | 53,208 | 18 | 29,552 | 16 | People | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Misc | 17,122 | 0 | 17,122 | 6 | 17,122 | 9 | Misc | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sub Total | 113,897 | 0 | 113,897 | 39 | 69,231 | 49 | Sub Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ceiling Load | 36 | -36 | 0 | 0 | 39 | 0 | Ceiling Load | -77 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ventilation Load | 0 | 0 | 81,959 | 28 | 0 | 0 | Ventilation Load | 0 | -89,312 | 72,59 | | | | | | |
| Adj Air Trans Heat | 0 | 0 | 0 | 0 | 0 | 0 | Adj Air Trans Heat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dehumid Ov Sizing | 0 | 0 | 0 | 0 | 0 | 0 | Dehumid Ov Sizing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Exhaust Heat | 0 | 0 | 0 | 0 | 0 | 0 | Exhaust Heat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sup Fan Heat | 0 | 0 | 0 | 0 | 0 | 0 | Sup Fan Heat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ret. Fan Heat | 0 | 0 | 0 | 0 | 0 | 0 | Ret. Fan Heat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Duct Heat Psp | 0 | 0 | 0 | 0 | 0 | 0 | Duct Heat Psp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Underflr Sup H Psp | 0 | 0 | 0 | 0 | 0 | 0 | Underflr Sup H Psp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Supply Air Leakage | 0 | 0 | 0 | 0 | 0 | 0 | Supply Air Leakage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grand Total | 193,390 | 151 | 288,398 | 100.00 | 186,027 | 100.00 | Grand Total | -36,405 | -136,067 | 100.00 | | | | | | |

| COOLING COIL SELECTION | | | | AREAS | | | | HEATING COIL SELECTION | | | |
|------------------------|----------|--------------|---------------|---------------|-------------|-------|-------|------------------------|--------------|-------|------|
| Capacity | Sens Cap | Coil Airflow | Enter DB/WHHR | Leave DB/WHHR | Gross Total | Glass | Net | Capacity | Coil Airflow | Enter | Lev |
| ton | MBH | cfm | °F | °F | sq ft | sq ft | sq ft | ton | cfm | °F | °F |
| Main Clg | 24.0 | 268.4 | 22.0 | 10.448 | 75.4 | 62.8 | 64.5 | 54.9 | 53.2 | 57.7 | 73.1 |
| Aux Clg | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 0.0 | 0.0 |
| Total | 24.0 | 268.4 | | | | | | | | | |

| COOLING COIL SELECTION | | | | AREAS | | | | HEATING COIL SELECTION | | | |
|------------------------|----------|--------------|---------------|---------------|-------------|-------|-------|------------------------|--------------|-------|-----|
| Capacity | Sens Cap | Coil Airflow | Enter DB/WHHR | Leave DB/WHHR | Gross Total | Glass | Net | Capacity | Coil Airflow | Enter | Lev |
| ton | MBH | cfm | °F | °F | sq ft | sq ft | sq ft | ton | cfm | °F | °F |
| Main Hg | -136.1 | 10,448 | 61.4 | 73.1 | | | | | | | |
| Aux Hg | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Preheat | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Total | -136.1 | | | | | | | | | | |

Project Name: Anthropologie
Dataset Name: LD-R14-1941-000.TRC

TRACER 700 v6.2.8 calculated at 10:28 AM on 07/03/2014
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CONDENSING UNIT SCHED.

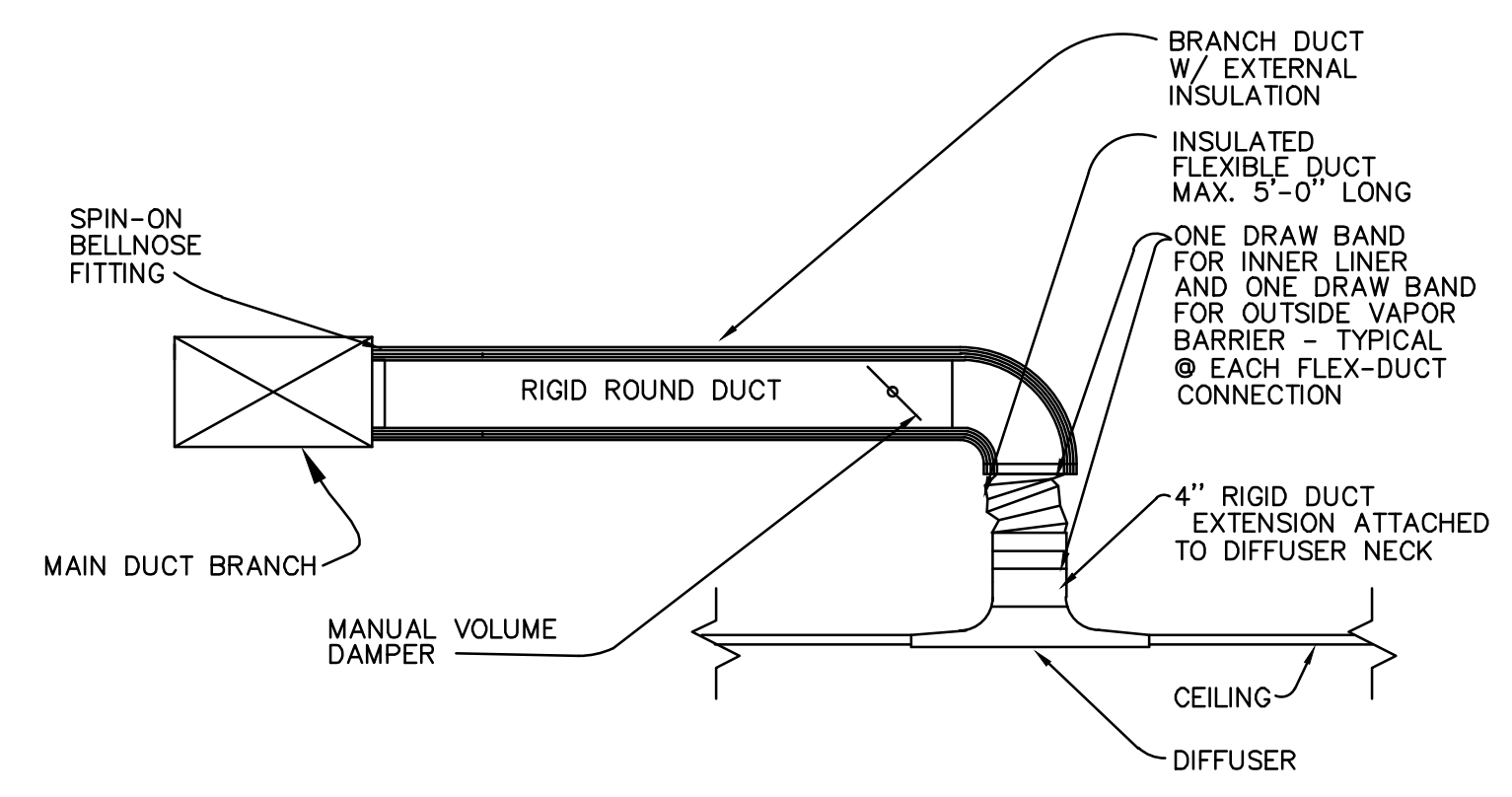
(FURNISHED & INSTALLED BY LANDLORD. SHOWN FOR REFERENCE ONLY)

| UNIT TAG | ACCU-1 | ACCU-2 | ACCU-3 | ACCU-4 |
|-------------------------|---|---|---|---|
| LOCATION | ROOF | ROOF | ROOF | ROOF |
| MANUFACTURER | TRANE | TRANE | TRANE | TRANE |
| MODEL NUMBER | 4TTA3036 | 4TTA048 | 4TTA120F3 | 4TTA120F3 |
| SERVICE | FCU-1 | FCU-2 | FCU-3 | FCU-4 |
| REFRIGERANT TYPE | R-410A | R-410A | R-410A | R-410A |
| NOMINAL CAPACITY (TON) | 3.0 | 4.0 | 10.0 | 10.0 |
| EER (COMBINED) | 11.5 | 11.5 | 11.2 | 11.2 |
| CIRCUITS (DUAL, SINGLE) | SINGLE | SINGLE | SINGLE | SINGLE |
| COMPRESSOR | | | | |
| TYPE | SCROLL | SCROLL | SCROLL | SCROLL |
| QUANTITY | 1 | 1 | 2 | 2 |
| UNLOADING % | 0/100% | 0/100% | 0-50-100% | 0-50-100% |
| CONDENSER | | | | |
| NUMBER OF FANS | 1 | 1 | 1 | 1 |
| HP | 1/8 | 1/5 | 1.0 | 1.0 |
| MBH (OUTPUT) | 36.0 | 45.1 | 107.8 | 107.8 |
| AMBIENT AIR TEMP | 100.0 | 100.0 | 100.0 | 100.0 |
| REFR SUCTION TEMP | 45°F | 45°F | 45°F | 45°F |
| REFRIGERANT PIPE SIZES | | | | |
| LIQUID | PER MANUF. | PER MANUF. | PER MANUF. | PER MANUF. |
| SUCTION | PER MANUF. | PER MANUF. | PER MANUF. | PER MANUF. |
| HOT GAS | PER MANUF. | PER MANUF. | PER MANUF. | PER MANUF. |
| ELECTRICAL | | | | |
| MCA | 14.0 | 18.0 | 44.6 | 44.6 |
| V-PH-CY | 208/3/60 | 208/3/60 | 208/3/60 | 208/3/60 |
| STARTER | DIV. 15 | DIV. 15 | DIV. 15 | DIV. 15 |
| DISCONNECT | DIV. 16 | DIV. 16 | DIV. 16 | DIV. 16 |
| OPERATING WEIGHT (LBS) | 150 | 205 | 440 | 440 |
| REMARKS | PROVIDE UNIT WITH LOW AMB. CONTROL & CONDENSER COIL HAIL GUARDS | PROVIDE UNIT WITH LOW AMB. CONTROL & CONDENSER COIL HAIL GUARDS | PROVIDE UNIT WITH LOW AMB. CONTROL & CONDENSER COIL HAIL GUARDS | PROVIDE UNIT WITH LOW AMB. CONTROL & CONDENSER COIL HAIL GUARDS |

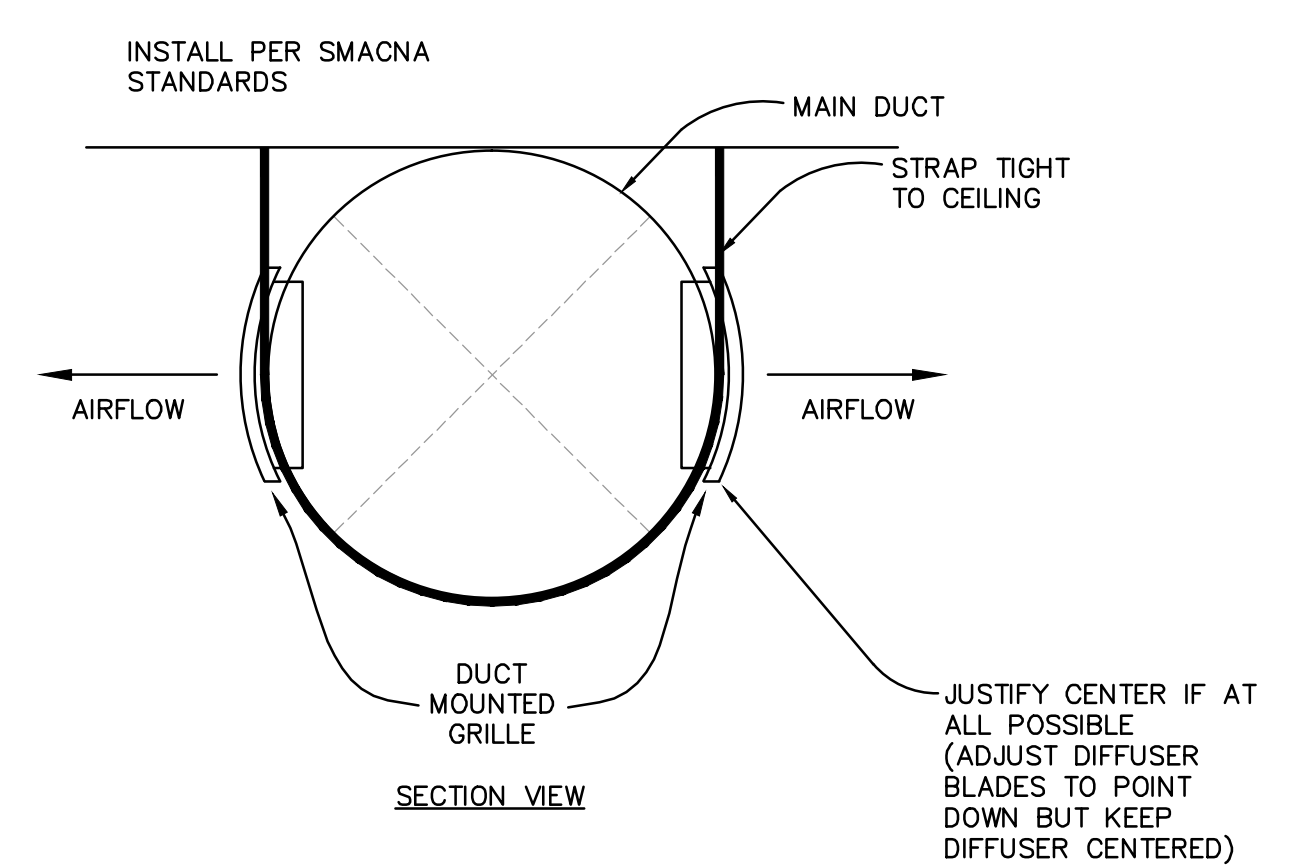
FAN COIL UNIT SCHEDULE

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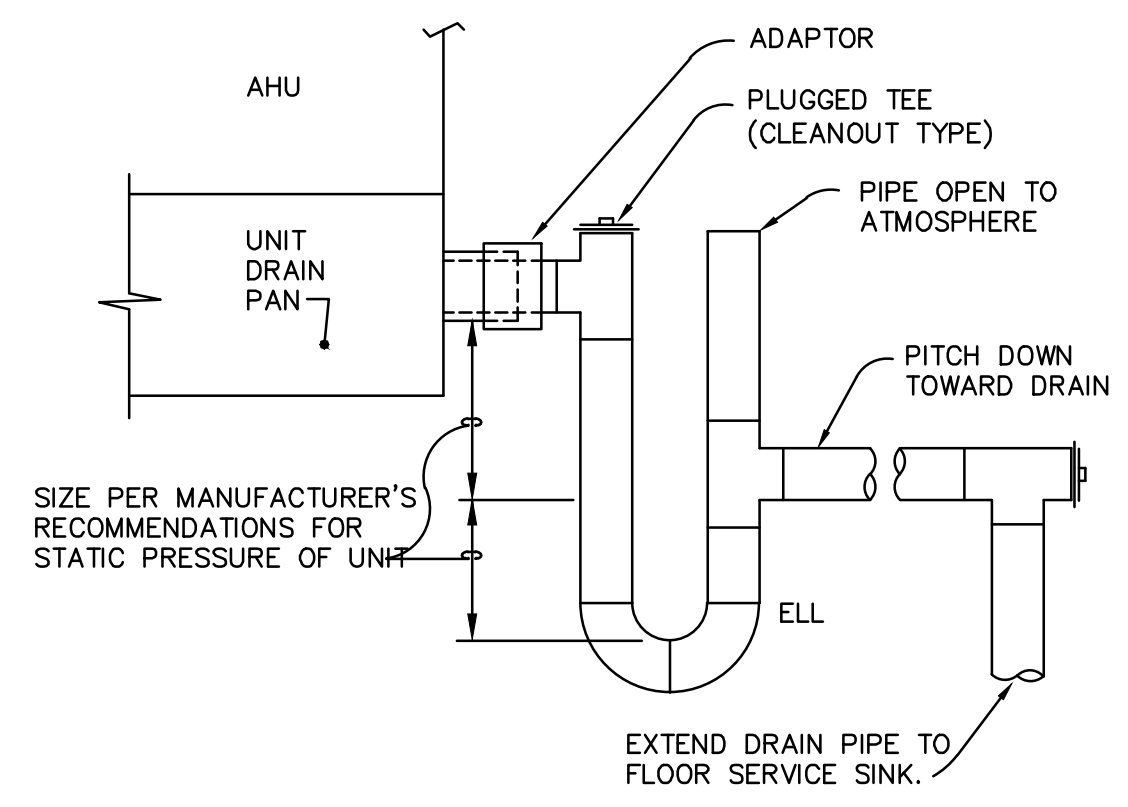
| UNIT TAG | FCU-1 | FCU-2 | FCU-3 | FCU-4 |
|------------------------|-----------------------------|-----------------------------|-------------|-------------|
| AREA SERVED | FITTING | BOH | SALES | SALES |
| MANUFACTURER | TRANE | TRANE | TRANE | TRANE |
| MODEL NUMBER | BCHD036 | BCHD054 | TWE120D3 | TWE120D3 |
| TYPE | SPLIT | SPLIT | SPLIT | SPLIT |
| MIN OUTSIDE AIR | 260 | 260 | 650 | 650 |
| SUPPLY FAN | | | | |
| CFM | 960 | 1420 | 4200 | 4200 |
| ESP | 0.70" | 0.70" | 0.70" | 0.70" |
| RPM | 1202 | 870 | 991 | 991 |
| HP | 0.5 | 1.0 | 3.0 | 3.0 |
| FILTERS | | | | |
| TYPE | MERV 8 | MERV 8 | MERV 8 | MERV 8 |
| DX COOLING COIL | | | | |
| CFM | 960 | 1420 | 4200 | 4200 |
| EAT DB/WB | 78.0/65.3 | 76.1/62.1 | 74.8/62.0 | 74.8/62.0 |
| LAT DB/WB | 53.2/52.7 | 52.6/52.1 | 55.9/53.7 | 55.9/53.7 |
| SENSIBLE/TOTAL MBH | 26.1/35.9 | 36.6/45.1 | 95.5/107.8 | 95.5/107.8 |
| REFRIGERANT TYPE | R-410A | R-410A | R-410A | R-410A |
| SPLIT | - | - | - | - |
| NUMBER OF CIRCUITS | 1 | 1 | 1 | 1 |
| HOT WATER HEATING COIL | | | | |
| CFM | 960 | 1420 | 4200 | 4200 |
| ROW | 1 | 1 | 2 | 2 |
| EWL/LWT | 180.0/150.0 | 180.0/150.0 | 180.0/150.0 | 180.0/150.0 |
| EAT/LAT | 56.9/103.8 | 61.0/99.7 | 62.0/104.5 | 62.0/104.5 |
| MBH | 48.8 | 59.6 | 193.0 | 193.0 |
| GPM | 3.25 | 4.0 | 13.0 | 13.0 |
| APD | 0.07 | 0.08 | 0.6 | 0.6 |
| ELECTRICAL | | | | |
| V-PH-CY | 208/1/60 | 208/1/60 | 208/3/60 | 208/3/60 |
| STARTER | DIV. 15 | DIV. 15 | DIV. 15 | DIV. 15 |
| DISCONNECT | DIV. 16 | DIV. 16 | DIV. 16 | DIV. 16 |
| OPERATING WEIGHT (LBS) | 225 | 290 | 400 | 400 |
| REMARKS | PROVIDE W/ ANGLE FILTER BOX | PROVIDE W/ ANGLE FILTER BOX | - | - |



1 TYP. DIFFUSER/DUCT CONNECTIONS
NO SCALE
DIFFUSER IN CEILING



2 DUCT MOUNTED GRILLE
NO SCALE



3 FCU CONDENSATE CONNECTION
NO SCALE

GRILLE AND DIFFUSER SCHEDULE

| TYPE | A | B | C | D | E | F |
|--------------|---|---------------------------------------|---|-------------|---|-------------|
| ITEM | SUPPLY | SUPPLY | RETURN/TRANSFER | SUPPLY | SUPPLY | EXHAUST |
| DESCRIPTION | SQUARE PLAQUE | DUCT MOUNT | BLADE | DUCT MOUNT | LAY-IN | DUCT MOUNT |
| MANUFACTURER | TITUS | TITUS | TITUS | TITUS | TITUS | TITUS |
| MODEL NUMBER | OMNI-24 X24" | S300FS | 350RF | 300RS | OMNI-12 X12" | 350RL |
| REMARKS | STD. WHITE FINISH W/OPPPOSED BLADE DAMPER & TRM PLASTER FRAME | STD. WHITE FINISH W/ AIR SCOOP DAMPER | STD. WHITE FINISH. POINT VANES UP OR TOWARD NEAREST WALL. | MILL FINISH | STD. WHITE FINISH W/OPPPOSED BLADE DAMPER & TRM FRAME | MILL FINISH |

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DUCTWORK DESIGN/ INSTALLATION REQUIREMENTS

| DUCT LOCATION AND ORIENTATION | TYPE | DUCTWORK ORIENTATION | DIFFUSER ORIENTATION | DUCTWORK HANGING | DUCTWORK CONNECTION | DUCTWORK MATERIAL | FINISH | NOTE |
|-------------------------------|--------------------------|----------------------|----------------------|------------------------|---------------------|----------------------|---|------|
| ALL EXPOSED DUCTWORK-SALES | SINGLE WALL SPIRAL ROUND | AS INDICATED ON PLAN | JUSTIFY CENTER | SMACNA STRAP AND SCREW | SLIP AND DRIVE | GALVANEAL PAINT GRIP | PAINT PER SPECIFICATION. SEE ARCH DRAWINGS. | |
| ALL EXPOSED DUCTWORK - BOH | RECTANGULAR | AS INDICATED ON PLAN | JUSTIFY CENTER | SMACNA STRAP AND SCREW | SLIP AND DRIVE | GALVANIZED STEEL | FACTORY - NO FIELD FINISH | |
| ALL CONCEALED DUCTS | RECTANGULAR | AS INDICATED ON PLAN | AS INDICATED ON PLAN | SMACNA STRAP AND SCREW | SLIP AND DRIVE | GALVANIZED STEEL | FACTORY - NO FIELD FINISH | |

VENTILATION CALCULATIONS

| OCCUPANCY | AREA (AZ) (SQ. FT) | POPULATION (Pz) | OA RATE/PERSON (Rp) | OA RATE/SQ. FT (Ra) | ZONE DISTRIBUTION EFFECTIVENESS (Ez) |
|---|--------------------|-----------------|---------------------|---------------------|--------------------------------------|
| RETAIL SALES | 4420 | 67 | 7.5 | 0.12 | 0.8 |
| Vot = [(Az x Ro) + (Pz x Rp)]/8 = 1291 CFM | | | | | |
| TOTAL OA PROVIDED (SUM OF FCU-3,4) = 1300 CFM | | | | | |
| OCCUPANCY | AREA (AZ) (SQ. FT) | POPULATION (Pz) | OA RATE/PERSON (Rp) | OA RATE/SQ. FT (Ra) | ZONE DISTRIBUTION EFFECTIVENESS (Ez) |
| FITTING | 1066 | 10 | 7.5 | 0.12 | 0.8 |
| Vot = [(Az x Ro) + (Pz x Rp)]/8 = 254 CFM | | | | | |
| TOTAL OA PROVIDED (FCU-1) = 260 CFM | | | | | |
| OCCUPANCY | AREA (AZ) (SQ. FT) | POPULATION (Pz) | OA RATE/PERSON (Rp) | OA RATE/SQ. FT (Ra) | ZONE DISTRIBUTION EFFECTIVENESS (Ez) |
| STOCK | 785 | 4 | 0 | 0.12 | 0.8 |
| VISUAL ROOM | 180 | 2 | 10 | 0.18 | 0.8 |
| LOUNGE | 390 | 4 | 5 | 0.06 | 0.8 |
| OFFICE | 145 | 2 | 5 | 0.06 | 0.8 |
| Voz = Σ[(Az x Ro) + (Pz x Rp)]/8 = 260 CFM | | | | | |
| Ev = 0.9 | | | | | |
| Vot = 209/0.9 = 232 CFM | | | | | |
| TOTAL OA PROVIDED (FCU-2) = 260 CFM | | | | | |