

AIR CONDITIONING SPLIT SYSTEM EQUIPMENT SCHEDULE

| CONDENSING UNIT | | | | | | | | | | | | | | | |
|-----------------|----------------------|-----------------|-------------|------------|-------------|------------------|----------|-------------|-----------|--------------|------------|----------|--------------|----------------|-------|
| CU TAG | MANUFACTURER & MODEL | NOMINAL TONNAGE | CAP. STAGES | (S)EER/PLV | REFRIG./LBS | LIQ./SUCT. LINES | NO. FANS | FAN FLA(EA) | NO. COMP. | COMP.RLA(EA) | VOLTAGE/PH | MCA/MOCP | WEIGHT (LBS) | L x W x H (IN) | NOTES |
| CU-1 | LG LSN360HV | 3.0 | 1 | 16 | R410A | 3/8" / 5/8" | 1 | - | 1 | 16.2 | 208/1/60 | 16.8/25 | 132.3 | 34X31X12 | 1-9 |

| AIR HANDLING UNIT | | | | | | | | | | | | | | | | |
|-------------------|----------------------|-----------|--------------|-----------|---------|----------------|------------|-------------|----------|------------|-----------|------------|----------|--------------|----------------|-------|
| AHU TAG | MANUFACTURER & MODEL | TOTAL MBH | SENSIBLE MBH | TOTAL CFM | O/A CFM | E.S.P. ("W.G.) | ENT. DB/WB | LEAV. DB/WB | ROWS/FPI | FAN HP/FLA | HEATER KW | VOLTAGE/PH | MCA/MOCP | WEIGHT (LBS) | L x W x H (IN) | NOTES |
| AHU-1 | LG LSN360HV | 33.1 | - | 740 | - | - | - | - | - | - | - | - | FROM CU | 39.7 | 47X13X8 | 1-9 |

NOTES:

- UNITS RATED PER ARI 210, 240 AND 270, APPROVED EQUAL: SANYO
- PROVIDE WITH ELECTRIC EXPANSION VALVES, LIQUID LINE FILTER DRYER AND MULTI-USE SERVICE VALVES
- PROVIDE COMPRESSOR WITH CRANKCASE HEATER AND MIN. 5-YEAR WARRANTY
- PROVIDE HIGH AND LOW PRESSURE CONTROL AND OVER TEMPERATURE PROTECTION.
- PROVIDE WEATHERPROOF ELECTRIC CONTROLS AND SINGLE SIDE SERVICE ACCESS
- PROVIDE DISCONNECT BY ELECTRICAL CONTRACTOR FOR C.U., COORDINATE PRIOR TO PURCHASING
- PROVIDE REFRIGERANT LINES SIZE AS RECOMMENDED BY MANUFACTURER, NOT TO EXCEED 50 FT. EQUIV. LENGTH FOR LONGER RUNS COORDINATE WITH MANUFACTURER PRIOR TO PURCHASE OR ANY WORK.
- CONTRACTOR TO COORDINATE WITH ELECTRICAL TO INSURE THAT THE CONDENSING UNIT AND RACK ARE TIED TO THE EXISTING LIGHTNING PROTECTION SYSTEM ON THE ROOF.
- PROVIDE WITH CONDENSATE LINE SHUT OFF SWITCH (SAFE-T-SWITCH SSI).

COORDINATION NOTE:
MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER

FAN SCHEDULE

| SELECTION DATA | | | | | | | | | | | | | | | | |
|----------------|--------------|-----------|--------|---------|-----|-----------|-------|---------|-----|--------|----------|--------------|---------------------|---------------|-----------------|-------------|
| TAG | SERVICE AREA | MANUF.(*) | MODEL | CONFIG. | CFM | ESP ("WG) | SONES | HP | RPM | DRIVE | VOLTAGE | WEIGHT (LBS) | DIMENSIONS L"xW"xH" | OPENING L"xW" | CONTROL | ACCESSORIES |
| EF-1 | BATHROOMS | GREENHECK | SP-B70 | CEILING | 50 | .2 | 1.1 | 45 WATT | 563 | DIRECT | 120/1/60 | 10 | 14X12X8 | * | LIGHT INTERLOCK | 1-7 |

(*) APPROVED EQUAL MANUFACTURER: COOK, TWM-CITY, ACME, PENN

ACCESSORIES NOTES:

- PROVIDE GRILLE COLOR PER ARCH. SPECS
- PROVIDE BACK DRAFT DAMPER
- LOCATE BACK DRAFT DAMPER AT DISCHARGE
- PROVIDE FACTORY MOUNTED DISCONNECT SWITCH AND INTEGRAL THERMAL OVERLOAD PROTECTION, COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ANY PURCHASING.
- PROVIDE BIRD SCREEN
- SUPPORT FROM STRUCTURE COMPLETE WITH VIBRATION ISOLATORS
- PROVIDE WEATHERHOOD DRAIN AND CORROSION COATING.
- PROVIDE WITH MOTORIZED DAMPER.
- PROVIDE MOTOR SIDE GUARD
- PROVIDE SPARK RESISTANCE CONSTRUCTION FAN

GENERAL FAN NOTES:

- MOTOR STARTERS, DISCONNECTS (IF NOT FACTORY PROVIDED) AND ALL EQUIPMENT NORMAL POWER AND EMERGENCY POWER WIRING BY ELEC. CONTRACTOR
- ALL CONTINUOUS-DUTY MOTORS SHALL BE PROVIDED WITH OVERLOAD PROTECTION ACCORDING TO NATIONAL ELECTRICAL CODE PAR. 430-32.
- FIELD ADJUST OPENINGS WITH STRUCTURE.
- ALL OUTDOOR EQUIPMENT SHALL COMPLY WITH LOCAL ZONING NOISE ORDINANCE OR NOT EXCEED A NOISE LEVEL OF 65dB AS MEASURED RADIALLY 30 FT. FROM THE EQUIPMENT IN ALL DIRECTIONS.
- COORDINATE WITH ELECTRICAL CONTRACTOR BEFORE BIDDING OR ORDERING ANY EQUIPMENT.
- SEE PROJECT PLANS AND SPECIFICATIONS FOR OTHER FIELD SUPPLIED ITEMS AND ADDITIONAL INFORMATION.
- ALL FANS ON ROOF SHALL BE PAINTED AS PER ARCHITECTURAL SPECS.

VAV BOX UNIT SCHEDULE (TRANE based)

| SELECTION DATA | | | | | | | | | | | | | | |
|---|-------------------|-----------|------------|------------------|----------|-------------|-----|-----------|----------|------------------|---------------------|-------------------|---------------------|---|
| UNIT TAG | MANUF. & MODEL(*) | TYPE | INLET DIA. | PRIMARY AIR DATA | | HEATER DATA | | GEN. DATA | | | | NOTES | | |
| | | | | MIN. CFM | MAX. CFM | MIN. Ps(") | KW | STEPS | VOLTAGE | LxHxW(") W/ HEAT | WEIGHT(LB) W/O HEAT | LxHxW(") W/O HEAT | WEIGHT(LB) W/O HEAT | |
| VAV-1-17 | TRANE VCCF | SGL. DUCT | 5 | 70 | 350 | * | - | - | 277/1/60 | - | - | 12X10X12 | 21 | * |
| VAV-1-3 VAV-1-4 | TRANE VCEF | SGL. DUCT | 6 | 100 | 500 | * | 3.5 | 1 | 277/1/60 | 40X12X18 | 38 | - | - | * |
| VAV-1-15 VAV-1-20 VAV-1-24 VAV-1-25 | TRANE VCCF | SGL. DUCT | 8 | 200 | 900 | * | - | - | 277/1/60 | - | - | 11X12X13 | 22 | * |
| VAV-1-9 VAV-1-10 VAV-1-11 VAV-1-13 VAV-1-16 | TRANE VCEF | SGL. DUCT | 8 | 200 | 900 | * | 3.0 | 1 | 277/1/60 | 44X12X17 | 67 | - | - | * |
| VAV-1-5 VAV-1-12 VAV-1-14 VAV-1-18 | TRANE VCEF | SGL. DUCT | 10 | 350 | 1400 | * | 4.0 | 1 | 277/1/60 | 44X14X20 | 81 | - | - | * |
| VAV-1-19 VAV-1-21 VAV-1-22 VAV-1-23 | TRANE VCCF | SGL. DUCT | 12 | 600 | 2000 | * | - | - | 277/1/60 | - | - | 16X15X22 | 35 | * |
| VAV-1-6 VAV-1-7 VAV-1-8 | TRANE VCEF | SGL. DUCT | 12 | 500 | 2000 | * | 5.0 | 1 | 277/1/60 | 44X16X23 | 93 | - | - | * |

NOTES:

(*) BOX MODEL IS "VCCF" FOR COOLING ONLY AND "VCEF" FOR COOLING WITH ELECTRIC HEATER

- CONTROLS TO BE BUILDING STANDARD, PROVIDE ROOM THERMOSTAT/SENSOR WITH OVERRIDE CAPABILITY. PROVIDE INTEGRATED CONTROL INTERFACE WITH EXISTING BUILDING EMS AS REQ'D.
- POWER BY ELEC. CONTRACTOR, CONTROL WIRING BY MECH/CONTROL CONTRACTOR. CONTROL POWER TRANSFORMER BY VAV MANUFACTURER. (ESSI - BILL MCKENNA 561-955-9006)
- FOR LONGER DUCT CONNECTION TO BOX THAN RECOMMENDED INLET RUN, MAKE THE TAP FOR BOXES AT THE MAIN DUCTWORK SIZED FOR MAIN STATIC PRESSURE LOSS. REDUCE TAP DOWN TO BOXES INLET SIZE JUST BEFORE CONNECTION AND PROVIDE MIN. LENGTH OF DUCT TO INLET AS RECOMMENDED BY MANUFACTURER FOR PROPER PRESSURE READING
- FOR BOXES WITH ELECTRIC HEATER, BOX SHALL BE FUSED BY MANUFACTURER IF REQUIRED MCA (AMPS) IS BELOW THE MIN. AVAILABLE SIZE OF COMMERCIAL BREAKER. CONTRACTOR SHALL COORDINATE PRIOR TO PURCHASING. PROVIDE ELECTRIC HEATER WITH MIN. 2 STAGES IF OVER 10 KW CAPACITY.
- BOX ACTUATORS SHALL BE EITHER SPRING-RETURN TYPE TO ALLOW BOXES TO FAIL FULLY OPEN IN EMERGENCY (SMOKE EVACUATION) MODE OR COMBINATION CONTROLLER-ACTUATOR WITH INTEGRATED, PROGRAMMABLE LOGIC AND PROVIDED WITH AN EMERGENCY POWER CIRCUIT

SUPPLY AIR GRILLE SCHEDULE

| TAG | MANUF. & MODEL | FACE SIZE | NECK SIZE | MATERIAL | FRAME | FINISH | DAMPER | THROW | NC | CFM RANGE | NOTES |
|-----|----------------|-----------|-----------|----------|---------|-----------|--------|-------|---------|-----------|-------|
| A | TITUS/ TDCA-AA | 24X24 | SEE SCH. | ALUM. | NOTE #3 | OFF WHITE | OBD | 4-WAY | MAX. 30 | SEE SCH. | 1-6 |
| B | TITUS/ TDCA-AA | 12X12 | SEE SCH. | ALUM. | NOTE #3 | OFF WHITE | OPD | 4-WAY | MAX. 30 | SEE SCH. | 1-6 |
| C | TITUS/ TMRA-AA | - | 8" NECK | ALUM. | NOTE #3 | NOTE #4 | OBD | 4-WAY | MAX. 30 | SEE SCH. | 1-6 |

(*) EQUIVALENT MANUFACTURER: METALAIR, PRICE, CARNES, T & B, NAILOR

GENERAL NOTES:

- PROVIDE SPIN-IN COLLAR AT TRUNK TO FLEX DUCT CONNECTION.
- PROVIDE TYPICAL 4-WAY DIFFUSION, 2-WAY OR 3-WAY ONLY WHERE INDICATED ON PLAN
- REFER TO ARCHITECT PLANS FOR CEILING TYPE.
- FINAL COLOR SELECTION SUBJECT TO ARCHITECT APPROVAL.
- FLEX DUCT SIZE TO BE SAME AS DIFFUSER NECK SIZE.
- PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE.

| FLEX SCHEDULE | |
|---------------|-------------|
| 6" | 50-125 CFM |
| 8" | 130-200 CFM |
| 10" | 205-330 CFM |
| 12" | 335-450 CFM |
| 14" | 455-600 CFM |
| 16" | 605-700 CFM |

CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER, PRIOR TO ANY PURCHASING OR INSTALLATION, IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING A SPECIFIC MODEL OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER.

RETURN AIR GRILLE SCHEDULE

| TAG | MANUF. & MODEL | FACE SIZE | NECK SIZE | MATERIAL | FRAME | FINISH | DAMPER | THROW | NC | CFM RANGE | NOTES |
|-----|----------------|-----------|-----------|----------|---------|-----------|--------|-------|---------|-----------|-------|
| AA | TITUS/ PAR-AA | 24X24 | SEE SCH. | ALUM. | NOTE #1 | OFF WHITE | OBD | - | MAX. 30 | SEE SCH. | 2-3 |

(*) EQUIVALENT MANUFACTURER: METALAIR, PRICE, CARNES, T & B, NAILOR

GENERAL NOTES:

- REFER TO ARCHITECT PLANS FOR CEILING TYPE.
- FINAL COLOR SELECTION SUBJECT TO ARCHITECT APPROVAL.
- PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE
- CONTRACTOR TO PROVIDE ALTERNATE TO PROVIDE AND INSTALL SOUND BOOTS ON RETURN AIR AT ALL PRIVATE OFFICES. SEE DETAIL SHEET M7.1.

| NECK SIZE | CFM RANGE | NECK SIZE | CFM RANGE |
|-----------|-----------|-----------|------------|
| 6X6 | 0-150 CFM | 15X15 | 0-900 CFM |
| 8X8 | 0-250 CFM | 18X18 | 0-1350 CFM |
| 10X10 | 0-400 CFM | 22X22 | 0-2000 CFM |
| 12X12 | 0-600 CFM | | |

CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER, PRIOR TO ANY PURCHASING OR INSTALLATION, IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING A SPECIFIC MODEL OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER.

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