

AIR HANDLING AND CONDENSING UNIT SCHEDULE

| PLAN MARK | MAKE | MODEL NUMBER | BLOWER UNITS | | | | | | | | | | DIRECT EXPANSION DX COOLING COIL | | | | | AIR COOLED CONDENSING UNIT DATA | | | COMPRESSOR MOTORS | | CONDENSER FANS | | REMARKS | | | |
|-----------|--------|--------------|----------------|-----------------|---------------------------------------|------------|-------|------|-------|----|------------|----------|----------------------------------|----------|--------------------|-----------------------|----------------|---------------------------------|-----------|------|-------------------|---------|----------------|-------|---------|-----|----------|------------------------|
| | | | SUPPLY AIR CFM | OUTDOOR AIR CFM | TOTAL STATIC PRESSURE INCHES OF WATER | BLOWER RPM | MOTOR | | | | AIR TEMP F | | | | TOTAL CAPACITY MBH | SENSIBLE CAPACITY MBH | NUMBER OF ROWS | FIN SERIES (FINS/FOOT) | PLAN MARK | MAKE | MODEL NUMBER | NO. | VOLTS/PHASE | RLA | | NO. | FLA (EA) | |
| | | | | | | | HP | RPM | VOLTS | PH | UNIT TYPE | ENTER DB | ENTER WB | LEAVE DB | | | | | | | | | | | | | | LEAVE WB |
| OAU-1 | DAIKIN | CAH008GDAC | 3000 | 3000 | 0.50 | 1064 | 1.5 | 1750 | 208 | 3 | CV | 87.2 | 81.5 | 53.4 | 53.2 | 304.6 | 110.2 | 8 | 12 | CU-1 | DAIKIN | RCS0300 | 3 | 208/3 | 12 | 4 | 4.2 | ①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒ |

- ① PROVIDE WITH ENERGY MANAGEMENT SYSTEM INTERFACE, SEE CONTROL DRAWINGS.
- ② PROVIDE FILTER RACK TO ACCEPT 2" THICK FILTERS, 40-45% EFF. (MERV 8) MIN.
- ③ R-410A REFRIGERANT
- ④ MINIMUM E.E.R. = 11.8
- ⑤ PROVIDE INSULATED COPPER REFRIGERANT PIPING AS SIZED PER MANUFACTURERS RECOMMENDATIONS
- ⑥ ROUTE FULL SIZE INSULATED COPPER DRAIN LINE TO NEAREST FLOOR DRAIN
- ⑦ CONDENSER COIL COATING RATED FOR NOT LESS THAN 1,000 HOUR SALT SPRAY TEST.
- ⑧ SINGLE POINT POWER CONNECTION
- ⑨ INVERTER DUTY MOTORS FOR VARIABLE SPEED OPERATION
- ⑩ PROVIDE WITH 1-YEAR WARRANTY PARTS, MATERIALS, AND LABOR
- ⑪ DUAL CIRCUIT COIL AND COMPRESSORS
- ⑫ UNIT HAS 3 COMPRESSORS: COMPRESSOR 1 FLA=56.7 AMPS COMPRESSOR 2 FLA=25.7 AMPS COMPRESSOR 3 FLA=25.7 AMPS
- ⑬ ALL AHU SECTIONS SHALL BE DUAL-WALL FACTORY INSULATED
- ⑭ SLOPED STAINLESS STEEL DRAIN PAN
- ⑮ FAN SHALL HAVE INTERNAL SPRING ISOLATORS
- ⑯ CONDENSING UNIT MCA=140.5; MOCP=175
- ⑰ ON THE FILTER SECTION PROVIDE A DIFFERENTIAL PRESSURE GAUGE MOUNTED ON THE EXTERIOR CASING AND ROUTE ASSOCIATED TUBING ACROSS THE FILTERS
- ⑱ PROVIDE EXTENDED GREASE LINES SO FAN BEARING CAN BE LUBRICATED FROM THE ACCESS SIDE OF THE AHU
- ⑲ PROVIDE WITH TOP INLET MIXING BOX
- ⑳ PROVIDE WITH HOT GAS BYPASS AND MODULATING HOT GAS RE-HEAT
- ㉑ PROVIDE WITH SERVICE OUTLET, 115V, 20 AMP SERVICE.
- ㉒ HOT GAS BY PASS REFRIGERANT LINE IS COORDINATED AND PROVIDED BY THE CONTRACTOR, THE FACTORY PROVIDES THE TAPS TO ALLOW TE-IN.

DESIGN CRITERIA

| AHU MARK | OUTDOOR AIR CFM | DESIGN OCCUPANCY | MAXIMUM OA RATE CFM/PERSON | OUTSIDE TEMP DB / WB | INSIDE TEMP. DB/WB |
|----------|-----------------|------------------|----------------------------|----------------------|--------------------|
| OAU-1 | 3000 | 161 | 18.6 | 87.2/81.5 | 74/61.5 |

DESIGN BASED ON THE VENTILATION RATE PROCEDURE PER FLORIDA BUILDING CODE, 2014, AND ASHRAE 62.1 - 2010

HVAC EQUIPMENT AND DEVICES FIELD COORDINATION REQUIREMENT

FIELD COORDINATION OF THE ABOVE CEILING EQUIPMENT, SUCH AS ABOVE CEILING AC UNITS MUST BE PERFORMED BY THE CONTRACTOR PRIOR TO AND DURING INSTALLATION. LOCATE THESE UNITS TO PROVIDE ACCESS FROM BELOW THRU THE CEILING.

THE LOCATION SHOWN ON THE DOCUMENT, ARE COORDINATED WITH CONSTRUCTION DOCUMENTS, HOWEVER THE CONTRACTOR IS REQUIRED TO PROVIDE COORDINATED INSTALLATION DRAWINGS TO ASSURE NO CONFLICTS OCCUR IN THE FIELD.

LOCATIONS OF WALL MOUNTED THERMOSTATS AND TEMPERATURE AND HUMIDITY SENSORS, AND CO2 SENSORS SHALL BE COORDINATED WITH THE ARCHITECTURAL WALL FINISHES / EXACT ACTUAL LOCATIONS OF THESE DEVICES WILL VARY SLIGHTLY FROM THE LOCATIONS SHOWN ON THE MECHANICAL DRAWINGS. REFER TO THE ARCHITECTURAL INTERIOR FINISH DRAWINGS AND ELEVATIONS FOR PLACEMENT OF THESE DEVICES.

DESIGN CONDITIONS

| SEASON | INDOOR | 74°F DB | 50% RH |
|--------|---------|-----------|-----------|
| SUMMER | OUTDOOR | 87.2°F DB | 81.5°F WB |
| | INDOOR | 70°F DB | - |
| WINTER | OUTDOOR | 45°F DB | - |

THE OUTSIDE AIR CONDENSING FOR WHICH THE OA UNIT HAS BE SELECTED EXCEEDS THE ASHRAE 1% DESIGN.

AIR CONDITIONING SYSTEM SCHEDULE

| UNIT NO. | SERVES | MAKE | AIR HANDLING UNIT DATA | | | | AIR COOLED CONDENSING UNIT DATA | | | | REMARKS | | | | |
|----------|--------|--------|------------------------|-----------|-----|---------|---------------------------------|----------|-----------|------------|---------|-------|----------|-----|-----------------|
| | | | MODEL | REQ'D CFM | MCA | BREASER | COOLING MBTU MAX | SEER/SPH | PLAN MARK | MODEL | | IEER | VOLTS/PH | MCA | MOCP |
| DX-1 | 20-100 | DAIKIN | FXMQ18PAVJU | 600 | 1.6 | 15 | 15 | 208/1 | | | | | | | |
| DX-2 | 20-101 | DAIKIN | FXMQ30PAVJU | 1000 | 2.8 | 15 | 26.2 | 208/1 | | | | | | | |
| DX-3 | 20-102 | DAIKIN | FXMQ18PAVJU | 600 | 1.6 | 15 | 15.7 | 208/1 | CU-2 | RXYQ96TTJU | 25.8 | 208/3 | 36.3 | 45 | ①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮ |
| DX-4 | 20-105 | DAIKIN | FXMQ18PAVJU | 600 | 1.6 | 15 | 15.7 | 208/1 | | | | | | | |
| DX-5 | 20-108 | DAIKIN | FXAQ07PVJU | 260 | 0.4 | 15 | 7.5 | 208/1 | | | | | | | |
| DX-6 | 20-131 | DAIKIN | FXAQ07PVJU | 260 | 0.4 | 15 | 7.5 | 208/1 | | | | | | | |
| DX-7 | 20-200 | DAIKIN | FXMQ30PAVJU | 1000 | 2.8 | 15 | 26.2 | 208/1 | | | | | | | |
| DX-8 | 20-201 | DAIKIN | FXMQ36PAVJU | 1200 | 2.9 | 15 | 31.4 | 208/1 | CU-3 | RXYQ96TTJU | 25.8 | 208/3 | 36.3 | 45 | ①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮ |
| DX-9 | 20-202 | DAIKIN | FXMQ30PAVJU | 1000 | 2.8 | 15 | 26.2 | 208/1 | | | | | | | |
| DX-10 | 20-201 | DAIKIN | FXAQ07PVJU | 260 | 0.4 | 15 | 7.5 | 208/1 | | | | | | | |

- ① HEAT PUMP VARIABLE REFRIGERANT VOLUME SYSTEM
 - ② FACTORY MOUNTING KIT.
 - ③ PROVIDE WITH MANUFACTURERS THERMOSTAT. THERMOSTAT TO BE WALL MOUNTED AND HARD WIRED.
 - ④ PROVIDE WITH FACTORY CONTROLS.
 - ⑤ SINGLE POINT POWER CONNECTION.
 - ⑥ ALL CONDENSATE DRAIN LINES SHALL BE FULL SIZE CONDENSATE DRAIN CONNECTION OR 3/4" DIA., WHICHEVER IS LARGER.
 - ⑦ FIELD APPLIED HERESITE CONDENSER COIL COATING RATED FOR NOT LESS THAN 3,000 HOUR SALT SPRAY TEST.
 - ⑧ REFER TO MANUFACTURERS RECOMMENDATIONS FOR REFRIGERANT LINE SET LENGTH LIMITATIONS AND ACCESSORIES REQUIRED.
 - ⑨ PROVIDE WITH 5-YEAR EXTENDED WARRANTY PARTS AND LABOR
 - ⑩ PROVIDE EVAPORATOR WITH MIN. MERV 8 FILTER
 - ⑪ SEE DETAILS FOR ANCHORING REQUIREMENTS FOR GRADE MOUNTED CONDENSING UNITS.
 - ⑫ START ASSIST KIT
 - ⑬ INTEGRAL INVERTER TO ALLOW COMPRESSOR TO MODULATE TO LOW COOLING LEVELS
 - ⑭ REFRIGERANT TYPE=R410A
 - ⑮ PROVIDE ALL EVAPORATORS WITH INTEGRAL CONDENSATE PUMP KIT.
- NOTE: CONTRACTOR SHALL SUBMIT AN ALTERNATE COST IN A SEPARATE LINE ITEM FOR A HEAT RECOVERY VRV SYSTEM WITH ONE BRANCH SELECTOR PER CONDENSING UNIT SIZED FOR EVAPORATORS SERVED IN BASE BID. VERIFY CONDENSING UNIT MODEL NUMBERS WITH MANUFACTURER.

EXHAUST FAN SCHEDULE

| PLAN MARK | MAKE | MODEL NUMBER | SPACE SERVED | CFM | E.S.P. IN INCHES OF H2O | DRIVE | DISCONN. SWITCH | FAN RPM | MOTOR | | | MOUNTING | REMARKS | INTERLOCK | |
|-----------|-----------|--------------|--------------|------|-------------------------|--------|-----------------|---------|-------|------|----------|----------|---------|-----------|-----------------|
| | | | | | | | | | HP | RPM | VOLTS PH | | | | |
| EF-1 | GREENHECK | G-133-VG | 1ST FLOOR | 1500 | 0.5 | DIRECT | YES | 1290 | 1/2 | 1290 | 120 | 1 | ROOF | ①②③④ | OAU-1 OPERATION |
| EF-2 | GREENHECK | G-103-VG | 2ND FLOOR | 1150 | 0.5 | DIRECT | YES | 1624 | 1/4 | 1624 | 120 | 1 | ROOF | ①②③④ | OAU-1 OPERATION |

- ① PROVIDE BACKDRAFT DAMPERS
- ② ELECTRONIC SPEED CONTROLLER MOUNTED AT FAN OR CLOSEST ACCESSIBLE LOCATION
- ③ PROVIDE FAN WITH UNIT MOUNTED DISCONNECT
- ④ PROVIDE WITH 18" HIGH PRE- MANUFACTURED INSULATED ROOF CURB.

Order Plans

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CONSTRUCTION DOCUMENTS

Correl. No: 16117.00
Job No: 117030
Date: 10-23-17
Drawn: WLM

| Revisions | | |
|-----------|------|------|
| No. | Date | Note |
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| | | |
| | | |

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

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