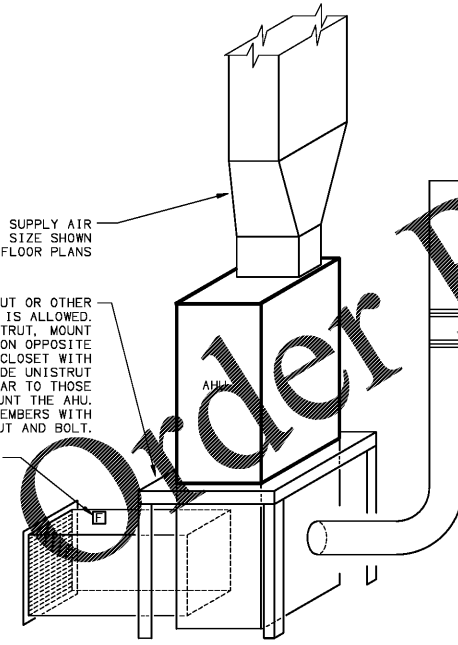


| AMENITY HEAT PUMP SPLIT SYSTEMS | | | | | | | | |
|--|------------------------|------------------------|------------------------|------------------------|----------|------------------------|------------------------|------------------------|
| MARK (CU/AHU) | 1 | 2 | 3 | 4 | 5 | 6 | F1 | F2 |
| NOMINAL TONS OF CU | 3 | 4 | 4 | 3 | NOT USED | 4 | 3.5 | 4 |
| TOTAL COOLING LOAD (MBH) | 29 | 43 | 41 | 33 | | 44 | 38 | 44 |
| SENSIBLE COOLING LOAD (MBH) | 19 | 27 | 31 | 25 | | 29 | 20 | 25 |
| AHU CONFIGURATION | VERTICAL BOTTOM RETURN | VERTICAL BOTTOM RETURN | VERTICAL BOTTOM RETURN | VERTICAL BOTTOM RETURN | | VERTICAL BOTTOM RETURN | VERTICAL BOTTOM RETURN | VERTICAL BOTTOM RETURN |
| AHU DIMENSIONS D X W X H (IN) | 21 X 21 X 49 | 21 X 25 X 54 | 21 X 25 X 54 | 21 X 21 X 49 | | 21 X 25 X 54 | 21 X 25 X 58 | 21 X 25 X 54 |
| SUPPLY AIR / OUTSIDE AIR (CFM) | 1100/190 | 1400/400 | 1400/195 | 1100/165 | | 1400/410 | 1225/300 | 1400/410 |
| EXTERNAL STATIC PRESS. (IN. W.C.) | 0.6 | 0.6 | 0.6 | 0.6 | | 0.6 | 0.6 | 0.6 |
| ENTERING AIR DRY BULB (°F.) | 78 | 80 | 77 | 77 | | 80 | 80 | 78 |
| ENTERING AIR WET BULB (°F.) | 66 | 67 | 65 | 65 | | 66 | 66 | 65 |
| EVAPORATOR FAN | HP | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | 3/4 |
| | VOLT/Ø | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 |
| ELECTRIC HEAT | LOAD (MBH) | 27 | 30 | 39 | 36 | 44 | 28 | 33 |
| | KW @ 240 | 15 | 15 | 15 | 15 | 20 | 15 | 15 |
| | VOLT/Ø/STAGES | 208/1/1 | 208/1/1 | 208/1/1 | 208/1/1 | 208/1/1 | 208/1/1 | 208/1/1 |
| CONDENSING UNIT | VOLT/Ø | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 |
| SERVES | CONSERVATORY | INTERNAL | LEASING EXTERNAL | MEDIA / LOUNGE | | ENTERTAINMENT TUNNEL | FITNESS YOGA | FITNESS WEIGHT |
| MANUFACTURER | GOODMAN | GOODMAN | GOODMAN | GOODMAN | | GOODMAN | GOODMAN | GOODMAN |
| AHU MODEL# | AVPTC-37 | AVPCT-48 | AVPCT-48 | AVPTC-37 | | AVPCT-48 | AVPTC-42 | AVPCT-48 |
| CU MODEL# | GSZ14-36 | GSZ14-48 | GSZ14-48 | GSZ14-36 | | GSZ14-48 | GSZ14-42 | GSZ14-48 |
| CU DIMENSIONS WXLXH INCHES | 29 X 29 X 37 | 29 X 29 X 37 | 29 X 29 X 37 | 29 X 29 X 37 | | 29 X 29 X 37 | 36 X 36 X 39 | 29 X 29 X 37 |
| MINIMUM EFFICIENCY AT ARI | 14 SEER/8.2HSPF | 14 SEER/8.2HSPF | 14 SEER/8.2HSPF | 14 SEER/8.2HSPF | | 14 SEER/8.2HSPF | 14 SEER/8.2HSPF | 14 SEER/8.2HSPF |
| REMARKS | 1 THRU 9 | 1 THRU 10 | 1 THRU 9 | 1 THRU 9 | | 1 THRU 9 | 1 THRU 10 | 1 THRU 10 |
| REMARKS: 1. EXTERNAL STATIC PRESSURE EXCLUDES LOSSES DUE TO AHU CASING, DIRT ON FILTER, AND WET COOLING COIL. 2. PROVIDE HEAT PUMP THERMOSTATS IN FULL COMPLIANCE WITH SECTION 6.4.3.1 THRU 6.4.3.3 OF THE 2007 ASHRAE 90.1 STANDARD WITH VENTED LOCK BOX, CAPABLE OF MINIMIZING THE USE OF THE ELECTRIC RESISTANCE HEATER. 3. 100°F. OUTSIDE AIR AMBIENT. 4. COOLING LOADS EXCLUDE EVAPORATOR FAN HEAT. 5. CU AND ELECTRIC RESISTANCE HEATER WILL OPERATE SIMULTANEOUSLY, DURING DEFOST AND TO MEET TOTAL HEAT LOAD DURING THE MOST EXTREME COLD WEATHER. 6. WIRE AHU FAN TO LOWEST SPEED THAT WILL ACHIEVE THE REQUIRED CFM. 7. PROVIDE AHU WITH INTEGRAL DISCONNECT. 8. PROVIDE AHU WITH SINGLE POINT WIRING KIT, INCLUDING HEATER. 9. SYSTEMS SHALL USE R-410A REFRIGERANT. 10. PROVIDE AHU WITH VARIABLE SPEED FAN. PROVIDE CONTROL SYSTEM WHICH IS DESIGNED TO MINIMIZE ENERGY USE BY RUNNING THE FAN AT A LOWER SPEED AT NON-PEAK COOLING TIMES, AND WHICH IS CAPABLE OF ACCEPTING A RELATIVE HUMIDITY SETPOINT AND MAINTAINING THAT SETPOINT WITH LOW SPEED COOLING. PROVIDE THERMOSTAT CAPABLE OF THIS CONTROL, SUCH AS VENTSTAR'S TSTATG4273. | | | | | | | | |

LOADS ARE BASED ON 20 EXTERIOR WALL INSULATION

LOADS ARE BASED ON 20 EXTERIOR WALLS WITH A U-FACTOR OF NO MORE THAN 0.6 AND SHGC OF 0.3

| MINI SPLITS | | | | |
|---|---------------------|---------------------|---------------------|---------------------|
| | CU-IT | CU-MA | CU-ME | CU-RC |
| CONDENSING UNIT | | | | |
| MARK | RK12NMVJU | RK09NMVJU | RK09NMVJU | RK12NMVJU |
| MODEL # | | | | |
| NOMINAL TONS | 1 | 3/4 | 3/4 | 1 |
| TYPE | STRAIGHT COOL | STRAIGHT COOL | STRAIGHT COOL | HEAT PUMP |
| COOLING CAPACITY (MBH) | 12 | 9 | 9 | 12 |
| HEATING CAPACITY (MBH) | NA | NA | NA | 11 |
| L X W X H (IN) | 27 X 13 X 22 | 27 X 13 X 22 | 27 X 13 X 22 | 27 X 13 X 22 |
| VOLT/Ø | 208/1 | 208/1 | 208/1 | 208/1 |
| COOLS AT AMBIENT AS LOW AS | 0°F | 0°F | 0°F | 55°F |
| HEATS AT AMBIENT AS LOW AS | NA | NA | NA | 5°F |
| AIR HANDLING UNIT | | | | |
| MARK | AHU-IT | AHU-MA | AHU-ME | AHU-RC |
| MODEL # | FTK12NMVJU | FTK09NMVJU | FTK09NMVJU | FTK12NMVJU |
| CONFIGURATION | WALL MOUNT DUCTLESS | WALL MOUNT DUCTLESS | WALL MOUNT DUCTLESS | WALL MOUNT DUCTLESS |
| L X W X H (IN) | 31 X 9 X 12 | 31 X 9 X 12 | 31 X 9 X 12 | 31 X 9 X 12 |
| SUPPLY AIR / OUTSIDE AIR (CFM) | 350/0 | 250/0 | 250/0 | 350/0 |
| ENTERING AIR DRY BULB (°F.) | 80 | 75 | 75 | 80 |
| ENTERING AIR WET BULB (°F.) | 67 | 64 | 64 | 67 |
| SERVES | IT ROOM | MESSAGE ROOM | MEDITATION ROOM | RETAIL CORRIDOR |
| MANUFACTURER | DAIKIN | DAIKIN | DAIKIN | DAIKIN |
| MINIMUM EFFICIENCY AT ARI | 16 SEER | 16 SEER | 16 SEER | 16 SEER / 8 HSPF |
| MIN REFR LENGTH/LIFT FT | 65/45 | 65/45 | 65/45 | 65/45 |
| REMARKS | 1 THRU 9 | 1 THRU 9 | 1 THRU 9 | 1 THRU 7, 9 |
| REMARKS: 1. FIELD PROVIDE THE DISCONNECT FOR AHU AND CU (SEE ELECTRICAL DRAWINGS) 2. SCHEDULED EQUIPMENT USES R410A 3. AUTO RESTART AFTER POWER OUTAGE 4. BUILT IN CONDENSATE OVERFLOW SWITCH IN PRIMARY PAN TO SHUT AHU DOWN UPON OVERFLOW, OR FIELD PROVIDE 5. AHU'S RECEIVE POWER FROM CU 6. PROVIDE WIRED CONTROLLER OR LOCKDOWN BRACKET. 7. FACTORY FILTERS IN AHU 8. PROVIDE CU WITH WIND BAFFLE AND FIELD SETTINGS FOR EXTENDED COOLING RANGE 9. EQUIP THE DRAIN LINE OF EACH AHU WITH A TRAP OR BACKWATER VALVE PRODUCTS BY CARRIER, MITSUBISHI, GREE, FUJITSU, LG, TOSIBA, QUIET SIDE AND FREIRICH WILL BE REVIEWED | | | | |



TRANSITION SUPPLY AIR DUCT TO THE SIZE SHOWN ON THE FLOOR PLANS

MOUNT AHU WITH UNISTRUT OR OTHER SUPPORT SYSTEM. WOOD IS ALLOWED. IF USING UNISTRUT, MOUNT UNISTRUT TO THE WALL ON OPPOSITE SIDES OF MECHANICAL CLOSET WITH SCREWS. PROVIDE UNISTRUT CHANNELS PERPENDICULAR TO THOSE ON THE WALL TO MOUNT THE AHU. SECURE THE CROSS MEMBERS WITH NUT AND BOLT.

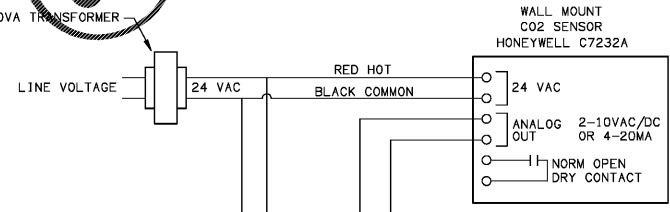
PROVIDE FIRESTAT BEHIND GRILLE OR IN AHU RETURN TO SHUT DOWN AHU UNDER FIRE CONDITION. LOCAL CONTROL ONLY. THIS IS TO ENSURE THAT THE RADIATION DAMPER IN THE SUPPLY PLENUM WILL FULLY CLOSE UNDER FIRE CONDITION

AMENITIES AHU
SCALE: N. T. S.

OUTSIDE AIR DUCT. PROVIDE WITH

- VOLUME DAMPER
- PROVIDE MOTORIZED SHUT OFF DAMPER WITH CARBON DIOXIDE CONTROL FOR AHU-1, 2, 3, 6, 8.
- PROVIDE WITH MOTORIZED SHUT OFF DAMPER FOR ALL OTHER CLUBHOUSE AHU'S.

SEE HVAC FLOOR PLANS FOR VARIATIONS. TAKE NOTE IF RADIATION DAMPER IS NEEDED OR NOT. IF RADIATION DAMPER IS NOT NOTED ON FLOOR PLANS, OMIT THE ACCESS PANEL ADJACENT TO IT.

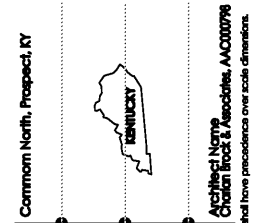


CONFIGURE CONTROLS SUCH THAT DAMPER STARTS TO OPEN AT 500 PPM CO2 CONCENTRATION AND IS FULLY OPEN AT 1200 PPM CO2 CONCENTRATION

PROVIDE MOTORIZED DAMPER AT OUTSIDE AIR DUCTS IN AHU ROOM. CONTROL THIS DAMPER TO SHUT WHEN AHU FAN IS OFF, AND MODULATE AS SHOWN ABOVE. HVAC CONTRACTOR TO PROVIDE NECESSARY ADDITIONAL TRANSFORMERS. MOUNT CO2 SENSOR NEXT TO THERMOSTAT.

APPLY TO AHU-2, 6, F1, F2 AND ALL AHU'S SERVING CORRIDORS.

MODULATING OUTSIDE AIR CONTROL
SCALE: N. T. S.



MiGre Engineers LLC
780 FLORIDA CENTRAL PARKWAY SUITE 224
LONGWOOD, FL 32750
PH: 407.336.7999
PROJECT #: 18025

Lyric at Norton Commons
Prospect, Kentucky

Bristol Development Group
381 Maloney Station Rd. Suite 204
Franklin, TN 37067

charlan • brock associates
architects • planners

1770 fennell street
maitland florida 32751-7208
407.660.8900 • 407.875.9948
www.cbaarchitects.com

HVAC SCHEDULES AND DETAILS

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