

SPLIT DX SYSTEM SCHEDULE				
MARK	FCU-1	FCU-2	-	-
SERVES	DATA ROOM	ATM ROOM	-	-
TOTAL CFM	325	325	-	-
OUTSIDE AIR (CFM)	0	0	-	-
EXT. SP. (IN. WG)	-	-	-	-
AMBIENT TEMP. (DEG F)	105	105	-	-
COOLING				
EAT DB / WB	-	-	-	-
LAT DB / WB	-	-	-	-
SENSIBLE HEAT (KBTUH)	8.7	8.7	-	-
TOTAL HEAT (KBTUH)	12.2	12.2	-	-
HORSEPOWER	-	-	-	-
VOLTS/PH/HZ	208/1/60	208/1/60	-	-
MCA/MOCP	OUTDOOR UNIT	OUTDOOR UNIT	-	-
MANUFACTURER	MITSUBISHI	MITSUBISHI	-	-
MODEL NO.	PKA-AL12NL	PKA-AL12NL	-	-
WEIGHT (LBS)	28	28	-	-
CONDENSING UNIT				
MARK	CU-1	CU-2	-	-
VOLTS/PH/HZ	208/1/60	208/1/60	-	-
MCA/MOCP	16/27	16/27	-	-
SEER2/EER2	21.10/14.80	21.10/14.80	-	-
MANUFACTURER	MITSUBISHI	MITSUBISHI	-	-
MODEL NO.	PUY-AK12NL	PUY-AK12NL	-	-
WEIGHT (LBS)	99	99	-	-
NOTES	ALL	ALL	-	-

NOTES:

2. REFRIGERANT TYPE IS R-454B.
3. COORDINATE WITH ELECTRICAL DRAWINGS FOR DISCONNECT AND ADDITIONAL ELECTRICAL REQUIREMENTS.
4. PROVIDE IECC COMPLIANT PROGRAMMABLE THERMOSTAT FOR AHU. T-STAT SHALL BE CALIBRATED TO DISPLAY SPACE TEMPERATURE AT $\pm 1/2$ °F. THE CONTROL SYSTEM SHALL CONTROL ECONOMIZER, DISCHARGE AIR TEMPERATURE CONTROL, SPACE TEMPERATURE, AND HUMIDITY SETPOINTS.
 - 3.1. THERMOSTAT SHALL INCLUDE A DEADBAND NOT LESS THAN 5°F.
5. PROVIDE THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY TIME CLOCK OR PROGRAMMABLE SYSTEM.
6. SETBACK CONTROLS SHALL BE CONFIGURED TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURE DOWN TO 55°F AUTOMATIC SETBACK.
7. AUTOMATIC TIME CLOCK OR PROGRAM CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND SET SETTINGS DURING A LOSS OF POWER FOR NOT FEWER THAN 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUAL OPERATED TIMER CONFIGURED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS.
8. PROVIDE AUTOMATIC START CONTROLS TO EACH SYSTEM. CONTROLS SHALL BE CONFIGURED TO AUTOMATICALLY ADJUST THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.
9. PROVIDE SUPPLY FAN WITH PREMIUM EFFICIENCY (MINIMUM 2021 IECC REQUIREMENT), ECM, VARIABLE-SPEED MOTOR.
10. PROVIDE WITH LOW AMBIENT KIT, FREEZESTAT, CRANKCASE HEATER, HIGH PRESSURE CONTROL AND FAN DELAY RELAY KIT.
11. PROVIDE LITTLE GIANT CONDENSATE PUMP.
 - 6.1. PROVIDE PRIMARY AND AUXILIARY DRAIN LINES FROM AIR HANDLING UNIT TO NEAREST FLOOR DRAIN. SUPPORT PIPE FOR 1/8" PER FOOT SLOPE TO DRAIN.
12. PROVIDE ALL REFRIGERANT LINE ACCESSORIES AND SIZES PER MANUFACTURER.
13. ALTERNATE MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET THE PERFORMANCE AND SPECIFICATIONS.

ROOFTOP UNIT SCHEDULE				
DESIGNATION	RTU-1	RTU-2	-	-
SERVES	LOBBY AREA	REAR AREA	-	-
TOTAL CFM	1,500	700	-	-
O.A. CFM	190	95	-	-
EXT. S.P. IN. WC	0.9	0.7	-	-
FAN HP	-	-	-	-
COOLING				
EAT (DB/WB)	77.49/64.96	78.12/65.15	-	-
LAT (DB/WB)	55.00/54.09	55.00/54.51	-	-
SEN. HT. KBTU/HR	30.3	17.7	-	-
TOTAL HT. KBTU/HR	40.3	22.3	-	-
AMB. TEMP.	105	105	-	-
HEATING		ELECTRIC	ELECTRIC	
ENTERING/LEAVING AIR TEMP.	65.6/95.0	64.8/95.0	-	-
HEATING KW	13	6	-	-
HEATING INPUT/OUTPUT KBTUH	41.3	21.9	-	-
VOLTS/PHASE/CYCLES	460/3/60	208/1/60	-	-
MCA/MOCP	25/26	36/40	-	-
EER2/SEER2	10.6/13.4	11.0/14.3	-	-
MANUFACTURER		TRANE	-	-
MODEL NO.	EDK048A4ED00	5TCC4024A	-	-
WEIGHT (LBS)	-	-	-	-
DIMENSIONS (L X W X H) FT	-X-X-	-X-X-	-	-
NOTES	ALL	ALL	-	-

NOTES:

3. SUBMITTAL EQUIPMENT MUST MEET AND ACHIEVE THE LOW DEWPOINT REQUIRED ABOVE. SUBMITTAL EQUIPMENT MEETING ONLY THE TOTAL AND SENSIBLE LOADS SHOWN IN THE SCHEDULE IS NOT ACCEPTABLE REGARDING ITS PERFORMANCE.
2. PROVIDE 2" MERV 11. FILTER, AND HINGED ACCESS PANELS.
3. PROVIDE FACTORY BOTTOM DISCHARGE CURB AT LEAST 14" HIGH WITH R-8 INSULATION.
4. PROVIDE FACTORY INSTALLED DISCONNECT AND SINGLE POINT ELECTRICAL CONNECTION.
5. PROVIDE WITH LOW AMBIENT KIT, FREEZSTAT, CRANKCASE HEATER, HIGH PRESSURE CONTROL AND FAN DELAY RELAY KIT.
6. UNITS SHALL HAVE A MAXIMUM DAMPER LEAKAGE AT 1.0 IN W.G. THAT DOES NOT EXCEED 4 CFM/SQ.FT. OF DAMPER AREA.
7. PROVIDE 2021 IECC COMPLIANT THERMOSTAT FOR EACH ZONE. THERMOSTAT SHALL BE CALIBRATED TO DISPLAY SPACE TEMPERATURE AT +/- 1°F. THE CONTROL SYSTEM SHALL CONTROL ECONOMIZER, DISCHARGE AIR TEMPERATURE CONTROL, SPACE TEMPERATURE.
- 7.1. THERMOSTAT SHALL INCLUDE A DEADBAND NOT LESS THAN 5°F.
- 7.2. PROVIDE THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY TIME CLOCK OR PROGRAMMABLE SYSTEM.
- 7.3. SETBACK CONTROLS SHALL BE CONFIGURED TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURE DOWN TO 55°F AUTOMATIC SETBACK.
- 7.4. AUTOMATIC TIME CLOCK OR PROGRAM CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTINGS DURING A LOSS OF POWER FOR NOT FEWER THAN 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUALLY OPERATED TIMER CONFIGURED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS.
- 7.5. PROVIDE AUTOMATIC START CONTROLS TO EACH SYSTEM. CONTROLS SHALL BE CONFIGURED TO AUTOMATICALLY ADJUST THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.
8. PROVIDE CORROSION RESISTANT BIRD SCREEN WITHIN THE OUTDOOR AIR INTAKE.
9. LOCATE ROOFTOP UNITS OUTSIDE AIR INTAKE A MINIMUM OF 15 FT FROM ALL EXHAUST/VENT OUTLETS.
10. PROVIDE MOTORIZED DAMPER FOR OUTSIDE AIR INTAKE. DAMPER SHALL CLOSE WHEN UNIT IS DE-ENERGIZED.
11. PROVIDE BI-POLAR IONIZATION POWERED BY THE EQUIPMENT. SEE MEP SPECIFICATION FOR SPECS.
12. PROVIDE POWER EXHAUST FAN FOR EACH UNIT TO MAINTAIN PROPER PRESSURE INSIDE THE SPACE DURING NORMAL OPERATION.
13. UNIT HAVE RAIN ENTRAINMENT THAT SATISFIES ASHRAE 62.1-2007 AND DEVICES UTILIZED SHALL CONFORM TO UL 1959, SECTION 58.
14. PROVIDE SUPPLY FAN WITH PREMIUM EFFICIENCY (MINIMUM 2021 IECC REQUIREMENT), ECM, VARIABLE-SPEED MOTOR.
15. PROVIDE FACTORY INSTALLED DUAL 115 VOLT GFCI SERVICE OUTLET.
16. WEIGHT MAY EXCEEDS THE LIMITS AS SPECIFIED ON THE BASE BUILD STRUCTURAL DESIGN DRAWINGS. CONTRACTOR SHALL VERIFY THE WEIGHT LIMITATIONS AND MANUFACTURERS SPECIFICATIONS. CONSULT A STRUCTURAL ENGINEER FOR ANY MODIFICATION TO THE STRUCTURE AS REQUIRED BY THE MANUFACTURERS SPECIFICATIONS.

EXHAUST FAN SCHEDULE				
MARK	EF-1	EF-2	EF-3	-
SERVES	RESTROOM	RESTROOM	JAN.	-
CFM	70 CFM	70 CFM	20 CFM	-
TYPE/DRIVE	DIRECT	DIRECT	DIRECT	-
S.P. IN. WG.	0.3	0.3	-	-
HORSEPOWER (WATTS)	(33)	(33)	-	-
RPM (MAX)	711	711	-	-
VOLTS/PHASE/HERTZ	120/1/60	120/1/60	120/1/60	-
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	-
SERIES NO.	SP-B110	SP-B110	-	-
NOTES	ALL	ALL	ALL	-

NOTES:

1. PROVIDE FAN WITH BACKDRAFT DAMPER, BIRD/BUG SCREEN, DISCONNECT SWITCH.
2. CONTROLS:
 - 2.1. FAN TO OPERATE INTERMITTENTLY.
 - 2.2. INTERLOCK FAN ON/OFF OPERATION WITH THE MOTION SENSOR SWITCH TO OPERATE WHEN SWITCH IS TURNED ON.
3. PROVIDE ALL REQUIRED ACCESSORIES FOR PROPER INSTALLATION. INSTALL IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION. ALTERNATE MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET THE PERFORMANCE AND SPECIFICATIONS.
4. PROVIDE SPEED CONTROLLER.

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