



1. PROVIDE SQUARE TO ROUND ADAPTER.
2. PROVIDE OPPOSED BLADE VOLUME DAMPER.

1. ACCESSORIES TO INCLUDE: 24" HIGH ROOF CURB, BACKDRAFT DAMPER, AND FACTORY WIRED DISCONNECT SWITCH
2. MOTOR TO BE INVERTER DUTY TYPE AND WIRED FOR VARIABLE SPEED OPERATION.

RH1	SMOKING SHELTER	21x12	45.55	105	2	1000	.20	55'	4.55	0.05	180'	160'	TRANE CO.	5W
-----	-----------------	-------	-------	-----	---	------	-----	-----	------	------	------	------	-----------	----

1. COOLING CAPACITIES ARE BASED ON 80°F DB, 67°F WB EAT, AND 95% AMBIENT AIR TEMPERATURES.

2. ACCESSORIES TO INCLUDE: ROOF CURB, SINGLE POINT CONNECTION, COMPARABLE ENTHALPY ECONOMIZER, POWER EXHAUST, DISCONNECT SWITCH, DEHUMIDIFIER PACKAGE, 2" FIBER RACK WITH MIXED FILTERS, REMOTE ACCESS DOORS, CONDENSATE OUTLET, COIL FILTERS/FAN FAILURE SWITCH, VENTILATION OVERRIDE, ZONE SENSOR WITH MODULATING HOT WATER COIL CONTROL CAPABILITY, LON INTERFACE, HUMIDITY SENSOR, AND STAINLESS STEEL HEAT EXCHANGER.



EXHAUST FAN (EF1)

EXHAUST FAN TO OPERATE AT VARIABLE SPEEDS; EXHAUST FAN SHALL OPERATE FROM A CONTROL SIGNAL FROM THE WALL MOUNTED PRESSURE MONITOR. MONITOR IS TO CONTROL EXHAUST FAN TO MAINTAIN A NEGATIVE PRESSURE IN SPACE.  
ROOFTOP UNIT (RTU1)  
 RTU SHALL BE SCHEDULED FOR OCCUPANCY AT THE BUILDING MANAGEMENT SYSTEM.

OCCUPIED HEATING: THE UNIT FAN SHALL RUN CONTINUOUSLY IN THE OCCUPIED MODE. IN THE MORNING WARM-UP MODE, THE UNIT FAN SHALL ENERGIZE AND THE OUTSIDE AIR DAMPER SHALL BE POSITIONED AT MINIMUM POSITION, UNTIL THE OCCUPIED HEATING SETPOINT IS ACHIEVED. ONCE THE SETPOINT IS ACHIEVED, THE OUTSIDE AIR DAMPER SHALL MODULATE IN CONJUNCTION WITH THE HEATING COIL IN ORDER TO MAINTAIN THE DESIRED DISCHARGE AIR TEMPERATURE.

**OCCUPIED COOLING:** THE UNIT FAN SHALL RUN CONTINUOUSLY IN THE OCCUPIED MODE. IN THE MORNING COOL-DOWN MODE, IF FREE COOLING IS AVAILABLE, THE OUTSIDE AIR DAMPER SHALL BE POSITIONED AT 100% OPEN UNTIL THE DESIRED MORNING ZONE COOL DOWN SETPOINT IS ACHIEVED. IF FREE COOLING IS NOT AVAILABLE, THE OUTSIDE AIR DAMPER SHALL GO TO MINIMUM POSITIONED, AND THE MECHANICAL COOLING SHALL BE ENERGIZED IN ORDER TO ACHIEVE THE DESIRED ZONE COOL-DOWN SETPOINT. ONCE THE COOL DOWN SETPOINT IS ACHIEVED, THE OUTSIDE AIR DAMPER SHALL MODULATE IN ORDER TO MAINTAIN THE DESIRED DISCHARGE AIR TEMPERATURE. WHEN FREE COOLING IS NO LONGER AVAILABLE, THE OUTSIDE AIR DAMPER SHALL GO TO MINIMUM POSITION, AND THE MECHANICAL COOLING SHALL CYCLE IN ORDER TO MAINTAIN THE DESIRED DISCHARGE SETPOINT.

UNOCCUPIED HEATING:  
THE UNIT'S OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED AND THE FAN AND HEATING COIL SHALL CYCLE IN ORDER TO ACHIEVE THE ZONE TEMPERATURE UNOCCUPIED SETPOINT.

UNOCCUPIED COOLING: IN THE SCHEDULED UNOCCUPIED PERIODS THE ROOFTOP UNIT'S MECHANICAL COOLING SHALL BE DISABLED. WHEN FREE COOLING IS AVAILABLE, THE ROOFTOP UNIT'S OUTSIDE AIR DAMPERS SHALL MODULATE AND THE FAN SHALL CYCLE IN ORDER TO ACHIEVE THE DESIRED UNOCCUPIED COOLING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:  
HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).  
LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).



FFA #7451

VA FORM 08-6231