

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF OUTDOOR UNIT SCHEDULE

System Tag	Tag Reference	M-Net Address	Model Number	Modules	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Electrical-Per Module				Notes / Options	
											208/230 or [460V]		RFS	MOCP		
												208/230V / 3-phase 3-wire			43/40, 43/40	50/50, 50/50
System 1		51.52	TURYF2403BN40AN	P120, P120	240,000.0	270,000.0	95.0	43.0	241,927.2	267,468.8	208/230V / 3-phase 3-wire	43/40, 43/40	50/50, 50/50	70/60, 70/60	1, 2, 3, 4, 5	

- Notes & Options:
 1. Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
 2. Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
 3. Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
 4. For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module
 5. Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

System Tag	Room Name	Tag Reference	Model	Type	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F) / [Water in temp]	Heating Design Entering Temp DB/WB (°F) / [Water in temp]	Corrected Capacity		Refrig Pipe Dim Liquid/Suction (inch)	Peak Fan Airflow (cfm) / [Design gpm] (GUS/yr)	Max Fan ESP Setting 208V/230V (IN WG)	Voltage / Phase	Electrical MCA/MFS	Notes / Options
									Cooling Diversity Full/Partial (See Note 5, 6)	Heating Diversity Full/Partial (See Note 5, 6)						
AH-1			TPEFYP012MA143A	Ceiling concealed type (ducted)	12,000.0	13,500.0	80.0/67.0	70.0	FULL DEMAND	FULL DEMAND	1/4 / 1/2	371	0.6/0.6	208/230V/1-phase	1.20(208V)/1.20(230V)/15	1, 2, 3, 4, 5, 6
AH-8			TPEFYP012MA143A	Ceiling concealed type (ducted)	12,000.0	13,500.0	80.0/67.0	70.0	FULL DEMAND	FULL DEMAND	1/4 / 1/2	371	0.6/0.6	208/230V/1-phase	1.20(208V)/1.20(230V)/15	1, 2, 3, 4, 5, 6
AH-2			TPEFYP015MA143A	Ceiling concealed type (ducted)	15,000.0	17,000.0	80.0/67.0	70.0	FULL DEMAND	FULL DEMAND	1/4 / 1/2	484	0.6/0.6	208/230V/1-phase	1.45(208V)/1.45(230V)/15	1, 2, 3, 4, 5, 6
AH-11			TPEFYP015MA143A	Ceiling concealed type (ducted)	15,000.0	17,000.0	80.0/67.0	70.0	FULL DEMAND	FULL DEMAND	1/4 / 1/2	484	0.6/0.6	208/230V/1-phase	1.45(208V)/1.45(230V)/15	1, 2, 3, 4, 5, 6
AH-7			TPEFYP018MA143A	Ceiling concealed type (ducted)	18,000.0	20,000.0	80.0/67.0	70.0	FULL DEMAND	FULL DEMAND	1/4 / 1/2	600	0.6/0.6	208/230V/1-phase	1.56(208V)/1.56(230V)/15	1, 2, 3, 4, 5, 6
AH-8			TPEFYP018MA143A	Ceiling concealed type (ducted)	18,000.0	20,000.0	80.0/67.0	70.0	FULL DEMAND	FULL DEMAND	1/4 / 1/2	600	0.6/0.6	208/230V/1-phase	1.56(208V)/1.56(230V)/15	1, 2, 3, 4, 5, 6
AH-3			TPEFYP024MA143A	Ceiling concealed type (ducted)	24,000.0	27,000.0	80.0/67.0	70.0	FULL DEMAND	FULL DEMAND	3/8 / 5/8	883	0.6/0.6	208/230V/1-phase	2.73(208V)/2.73(230V)/15	1, 2, 3, 4, 5, 6
AH-10			TPEFYP024MA143A	Ceiling concealed type (ducted)	24,000.0	27,000.0	80.0/67.0	70.0	FULL DEMAND	FULL DEMAND	3/8 / 5/8	883	0.6/0.6	208/230V/1-phase	2.73(208V)/2.73(230V)/15	1, 2, 3, 4, 5, 6
AH-5			TPEFYP030MA143A	Ceiling concealed type (ducted)	30,000.0	34,000.0	80.0/67.0	70.0	FULL DEMAND	FULL DEMAND	3/8 / 5/8	883	0.6/0.6	208/230V/1-phase	2.73(208V)/2.73(230V)/15	1, 2, 3, 4, 5, 6
AH-4			TPEFYP054MA143A	Ceiling concealed type (ducted)	54,000.0	60,000.0	80.0/67.0	70.0	FULL DEMAND	FULL DEMAND	3/8 / 5/8	1483	0.6/0.6	208/230V/1-phase	3.51(208V)/3.51(230V)/15	1, 2, 3, 4, 5, 6
AH-6			TPEFYP054MA143A	Ceiling concealed type (ducted)	54,000.0	60,000.0	80.0/67.0	70.0	FULL DEMAND	FULL DEMAND	3/8 / 5/8	1483	0.6/0.6	208/230V/1-phase	3.51(208V)/3.51(230V)/15	1, 2, 3, 4, 5, 6
AH-12			TPKFYP012HM142A	Wall mounted type	12,000.0	13,500.0	80.0/67.0	70.0	FULL DEMAND	FULL DEMAND	1/4 / 1/2	371	0.6/0.6	208/230V/1-phase	0.38(208V)/0.38(230V)/15	1, 2, 3, 4, 5, 6

- Notes & Options:
 1. Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
 2. Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
 3. See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected
 4. See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system. Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply. It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.
 6. It is recommended to always base heating corrected capacity on full demand.

ALL AIR HANDLERS SHALL BE PROVIDED WITH FACTORY FILTER BOXES, MAINTAIN FILTERS IN PLACE DURING CONSTRUCTION AND PROVIDE NEW FILTERS UPON COMPLETION.

CONTRACTOR QUALIFICATIONS
 - CONTRACTOR SHALL HAVE AT LEAST 5 YEARS EXPERIENCE INSTALLING AND SERVICING VRF SYSTEMS.
 - CONTRACTOR SHALL BE CERTIFIED BY THE MANUFACTURE AS AN APPROVED INSTALLER AND SHALL ATTEND MANUFACTURE TRAINING CLASS PRIOR TO BEGINNING THE PROJECT.
 - CONTRACTOR WILL BE RESPONSIBLE FOR SUBMITTING TO THE MANUFACTURER ALL PAPERWORK REQUIRED TO PROVIDE THE SYSTEM WITH EXTENDED 10 YEAR PARTS WARRANTIES. THIS PAPERWORK SHALL BE SUBMITTED TO THE MANUFACTURE WITHIN 30 DAYS OF EQUIPMENT STARTUP.
 - SYSTEMS SHALL BE STARTED UP AND COMMISSIONED BY A FACTORY AUTHORIZED REPRESENTATIVE THAT SPECIALIZES IN VRF EQUIPMENT.

HVAC CONTROLS
 HVAC CONTROLS AND BUILDING INTERFACE SHALL BE PROVIDED BY BRADY TRANE.
 CONTACT:
 BRETT BARKER
 BRADY, CONTROLS SALES ENGINEER
 PHONE: 336.378.0870
 CELL: 336.706.3788
 EMAIL: BRETT.BARKER@BRADYSERVICES.COM

TYPICAL SEQUENCE OF OPERATION (NOTE: NEW BUILDING HVAC CONTROLS ARE TO BE INTERFACED WITH CAMPUS CONTROL SYSTEM)
 VARIABLE REFRIGERANT FLOW SYSTEM SEQUENCE OF OPERATION
 HEAT RECOVERY SYSTEM CONFIGURATION
 A HEAT RECOVERY SYSTEM CONSISTS OF OUTDOOR UNITS, BRANCH CONTROLLERS, AND INDOOR UNITS WORKING TOGETHER TO PROVIDE SPACE COMFORT CONTROL. WHEN THESE COMPONENTS ARE INSTALLED, WIRING AND CONTROLLED CORRECTLY BY THE SYSTEM WILL OPERATE PER THE FACTORY SCHEDULE.
 A 2-PHASE REFRIGERANT DISTRIBUTION SYSTEM EXISTS BETWEEN THE OUTDOOR UNIT AND MAIN BRANCH CONTROLLER. WHEN ADDITIONAL ZONES ARE NEEDED ON A SYSTEM UP TO 11 SUBSEQUENT SUB-BRANCH CONTROLLERS CAN BE ADDED TO THE SYSTEM. IN THIS CONFIGURATION THE SYSTEM WILL CONSIST OF THREE PIPES BETWEEN THE MAIN BRANCH CONTROLLER AND SUBSEQUENT SUB-BRANCH CONTROLLERS. THE OUTDOOR UNIT SENDS HIGH PRESSURE LIQUID PHASE REFRIGERANT TO THE MAIN BRANCH CONTROLLER AND RETURNS LIQUID OR SUCTON GAS TO THE OUTDOOR UNIT. THE MAIN BRANCH CONTROLLER THEN SEPARATES THE LIQUID PHASE REFRIGERANT WITH A LIQUID-GAS SEPARATOR TO PROVIDE HOT GAS FOR INDOOR UNITS IN NEED OF HEATING AND THEN ALSO SUB-COOLES THE SATURATED GAS THROUGH TWO TURBINE TURBINE HEAT EXCHANGERS LOCATED IN THE MAIN BRANCH CONTROLLER TO FORM SUB-COOLED LIQUID AVAILABLE FOR INDOOR UNITS IN NEED OF COOLING. THE MAIN BRANCH CONTROLLER THEN SENDS BOTH PHASES OF REFRIGERANT TO THE SUB-BRANCH CONTROLLER AND RETURNS LOW PRESSURE LOW PRESSURE LIQUID OR RETURN GAS TO THE OUTDOOR UNIT.
 THE BRANCH CONTROLLER SUPPORTS MULTIPLE REFRIGERANT BRANCH CIRCUITS. EACH BRANCH CONSISTS OF A REFRIGERANT SUPPLY PORT AND RETURN PORT. A 2-PHASE REFRIGERANT DISTRIBUTION SYSTEM EXISTS BETWEEN A BRANCH AND THE INDOOR UNIT. UP TO THREE INDOOR UNITS AND A MAX CAPACITY OF 54MBH CAN BE CONNECTED ON A SINGLE BRANCH CONTROLLER PORT SERVING THE SAME ZONE.
 HEAT RECOVERY SYSTEM CONFIGURATION
 FACTORY SPACE IS CONDITIONED BY AN INDOOR UNIT GROUP. A GROUP IS COMPOSED OF 1 TO 16 INDOOR UNITS. THE REMOTE CONTROLLER COMMUNICATES THE DESIRED MODE (HEATING OR COOLING) OF EACH GROUP TO THE BRANCH CONTROLLER. THE BRANCH CONTROLLER SENDS LIQUID (COOLING MODE) OR HOT GAS REFRIGERANT (HEATING MODE) TO EACH INDOOR UNIT IN THE GROUP. THE INDOOR UNIT MODULATES THE POSITION OF ITS INFLAR EXPANSION VALVE (EV) AS NEEDED TO ACHIEVE SPACE TEMPERATURE SETPOINT. INDOOR FAN SPEED CAN BE SET TO AUTO OR OFF DEPENDING ON THE INDOOR UNIT AND APPLICATION.
 EACH INDOOR UNIT GROUP CAN SWITCH BETWEEN HEATING AND COOLING MODE INDEPENDENT OF THE MODE OF OTHER INDOOR UNIT GROUPS CONNECTED TO THE BRANCH CONTROLLER.
 HEAT PUMP SYSTEM CONFIGURATION
 A HEAT PUMP SYSTEM CONSISTS OF OUTDOOR UNITS AND INDOOR UNITS WORKING TOGETHER TO PROVIDE SPACE COMFORT CONTROL. WHEN THESE COMPONENTS ARE INSTALLED, WIRING AND CONTROLLED CORRECTLY BY THE SYSTEM WILL OPERATE PER THE FACTORY SCHEDULE.
 UNITS ARE CONNECTED TO THE OUTDOOR UNIT VIA A COMMON 2-PHASE REFRIGERANT LIQUID LINE. EACH INDOOR UNIT HAS BEING DESIGN. THE INDOOR UNITS CAN ONLY RECEIVE LIQUID OR HOT GAS REFRIGERANT AS A WHOLE. THE INDOOR UNIT WILL MODULATE THE POSITION OF ITS INFLAR EXPANSION VALVE (EV) AS NEEDED TO ACHIEVE SPACE TEMPERATURE SETPOINT. INDOOR FAN SPEED CAN BE SET TO AUTO OR OFF DEPENDING ON THE INDOOR UNIT AND APPLICATION.
 HEAT PUMP SYSTEM CONFIGURATION
 THE OUTDOOR UNIT OPERATES IN ONE OF TWO MODES, COOLING OR HEATING. WHEN IN COOLING MODE, LIQUID REFRIGERANT IS SENT TO THE INDOOR UNITS AND SUCTON GAS IS RETURNED TO THE OUTDOOR UNIT. IN HEATING MODE, HOT GAS REFRIGERANT IS SENT TO THE INDOOR UNITS AND LIQUID IS RETURNED TO THE OUTDOOR UNIT.
 EACH SPACE IS CONDITIONED BY AN INDOOR UNIT GROUP. A GROUP IS COMPOSED OF 1 TO 16 INDOOR UNITS. THE REMOTE CONTROLLER COMMUNICATES THE DESIRED MODE (HEATING OR COOLING) OF EACH GROUP TO THE OUTDOOR UNIT. BY DEFAULT THE OUTDOOR UNIT WILL ONLY TRANSFER REFRIGERANT BETWEEN ALL GROUPS. SPECIAL SETTINGS CAN BE SET FROM THE LOCAL REMOTE CONTROLLER. BY DEFAULT IF AN INDOOR GROUP REQUESTS A MODE OPPOSITE OF THE OTHER INDOOR UNITS IN THE GROUP, THE INDOOR GROUP WILL STAY IN STANDBY UNTIL ALL INDOOR GROUPS ON THAT SYSTEM REQUEST THE CHANGE.
 A SPECIFIC INDOOR GROUP OR LINE SYSTEM GROUP CAN ALSO BE SET IN AN AUTO MODE TO CONTROL SWITCHOVER. THIS SPECIFIC GROUP WILL SHOW AUTO IN A MODE THAT WILL DETERMINE THE ENTIRE SYSTEM MODE REGARDLESS OF OTHER INDOOR GROUP CALLS.
 EQUIPMENT SCHEDULE OF OPERATION
 THERMAL MODE STATE
 INTERIOR OPERATING MODE OF THE INDOOR EQUIPMENT. THE EQUIPMENT IS ALWAYS IN A THERMO STATE, REGARDLESS OF CURRENT MODE OR SETTING.
 1. THERMO ON: INFLAR EXPANSION VALVE (EV) IS MODULATED AND THE SPEED OF THE FAN IS SCALED TO ACHIEVE THE SPACE TEMPERATURE SETPOINT.
 2. THERMO OFF: THE EV IS CLOSED AND THE FAN IS OFF. SPACE TEMPERATURE CONTROL IS NOT ACTIVE.
 3. THERMO ON: SPACE TEMPERATURE > 2°F SPACE TEMPERATURE SETPOINT + 2°F. THE INFLAR EXPANSION VALVE (EV) IS MODULATED AND THE FAN IS SCALED TO ACHIEVE THE SPACE TEMPERATURE SETPOINT.
 4. THERMO OFF: SPACE TEMPERATURE < 2°F SPACE TEMPERATURE SETPOINT - 2°F. THE EV IS CLOSED AND THE FAN IS OFF. SPACE TEMPERATURE CONTROL IS NOT ACTIVE.
 INDOOR POWER ON/OFF OPERATION
 HEAT RECOVERY SYSTEM CONFIGURATION: WHEN THE POWER BUTTON IS PRESSED ON THE REMOTE CONTROLLER, THE EQUIPMENT WILL TURN ON. WHEN THE POWER BUTTON IS PRESSED ON THE REMOTE CONTROLLER AGAIN, THE EQUIPMENT WILL TURN OFF. UPON THE TRANSITION FROM ON TO OFF A STARTUP DELAY IS TIMER IS ENABLED AND SET TO 3 MINUTES. DURING THIS TIME PERIOD THE EQUIPMENT IS PROHIBITED FROM TURNING ON. THIS FUNCTION IS DISABLED REGARDLESS OF EQUIPMENT MODE.
 HEAT PUMP SYSTEM CONFIGURATION: WHEN THE POWER BUTTON IS PRESSED ON THE REMOTE CONTROLLER, THE EQUIPMENT WILL TURN ON. WHEN THE POWER BUTTON IS PRESSED ON THE REMOTE CONTROLLER AGAIN, THE EQUIPMENT WILL TURN OFF. UPON THE TRANSITION FROM ON TO OFF A STARTUP DELAY IS TIMER IS ENABLED AND SET TO 3 MINUTES. DURING THIS TIME PERIOD THE EQUIPMENT IS PROHIBITED FROM TURNING ON. THIS FUNCTION IS DISABLED REGARDLESS OF EQUIPMENT MODE.
 AN INDOOR UNIT CAN TAKE 1 OF 5 OPERATING MODES: COOL, DRY, FAN, HEAT, AUTO. THE SEQUENCE OF OPERATION FOR EACH MODE ARE DESCRIBED BELOW.
 HEAT PUMP INDOOR UNIT SEQUENCE OF OPERATION:
 AN INDOOR UNIT CAN TAKE 1 OF 4 OPERATING MODES: COOL, DRY, FAN, HEAT. THE SEQUENCE OF OPERATION FOR EACH MODE ARE DESCRIBED BELOW.
 COOL MODE
 THERMOSTAT FUNCTION:
 WHEN THE UNIT IS CONFIGURED FOR AUTO (SINGLE) SETPOINT CONTROL:
 1. When space temperature is > 2°F space temperature setpoint + 2°F, the thermal mode state is set to Thermo ON. If space temperature < space temperature setpoint, the thermal mode state is set to Thermo OFF.
 2. When the unit is configured for Auto (Dual) setpoint control:
 3. When space temperature > occupied cooling setpoint + 2°F, thermal mode state is Thermo ON. When space temperature < occupied cooling setpoint, thermal mode state is Thermo OFF.
 ANTI-FREEZING CONTROL:
 THE THERMOSTAT TEMPERATURE IS MONITORED. IF THE LIQUID REFRIGERANT IS 3°F OR LESS IN 16 MINUTES FROM COMPRESSOR STARTUP, ANTI-FREEZING CONTROL STARTS. THE EQUIPMENT TRANSITIONS TO THERMO OFF AND THE STARTUP DELAY TIMER IS ENABLED AND SET TO 3 MINUTES. THE EQUIPMENT WILL REMAIN IN THIS STATE UNTIL ONE OF THE RELEASE CONDITIONS ARE MET.
 ANTI-FREEZING RELEASE CONDITIONS:
 THE EQUIPMENT WILL EXIT ANTI-FREEZING CONTROL WHEN THE STARTUP DELAY TIMER HAS EXPIRED, AND ANY ONE OF THE FOLLOWING CONDITIONS IS SATISFIED:
 1. Liquid pipe temperature rises to 50°F or above.
 2. The indoor unit enters the Thermo Off mode because the call for cooling has been satisfied in the zone.
 3. The equipment mode is changed to a value other than COOL.
 4. The equipment is powered off by the remote controller.
 FAN SPEED
 THE SPEED OF THE FAN IS CONTROLLED VIA THE REMOTE CONTROLLER. WHEN AUTO IS SELECTED, FAN SPEED IS CHANGED BASED ON THE VALUE OF THE TEMPERATURE OR IA RETURN. THE TEMPERATURE AND THE SPACE TEMPERATURE SETPOINT. WHEN FAN SPEED IS SET TO SPEED 1, SPEED 2, SPEED 3, OR SPEED 4 THE FAN WILL MAINTAIN THIS SPEED UNTIL FAN SPEED IS CHANGED TO ANOTHER STATE.
 THE SPEED OF THE FAN IS LOWEST AT SPEED 1 AND INCREASES IN STEPS. THE SPEED OF THE FAN IS MAXIMUM AT SPEED 3 OR 4. THE NUMBER OF FAN SPEEDS AVAILABLE IS DEPENDENT ON INDOOR EQUIPMENT MODEL INSTALLED. THERE FAN SPEED CONFIGURATIONS ARE POSSIBLE: 4 SPEED + AUTO, 3 SPEED + AUTO, 4 SPEED ONLY.
 VANE POSITION
 THE POSITION OF THE INDOOR EQUIPMENT DISCHARGE VANES IS ADJUSTABLE. POSITION IS CONTROLLED VIA THE REMOTE CONTROLLER. TWO VANE CONTROL METHODS ARE AVAILABLE. THE STRATEGY IN USE IS DEPENDENT ON THE INDOOR EQUIPMENT MODEL SELECT. THE TWO METHODS WORK AS FOLLOWS:
 1.5 STEP MODE: SEVERAL POSITIONS ARE AVAILABLE, SWING, RIVED POSITIONS 1 TO 5, AND AUTO. SWING MODULATES VANE POSITION WITHIN THE RANGE OF POSITIONS 1 TO 5. RIVED POSITION 1 PROVIDES A HORIZONTAL DISCHARGE DIRECTION. POSITIONS 2, 3, AND 4 VARY THE ANGLE OF DOWNWARD DISCHARGE WITH THE HIGHER NUMBER PRODUCING MORE DOWNWARD DISCHARGE. POSITION 5 PRODUCES VERTICAL DISCHARGE. AUTO IS USED IN CONJUNCTION WITH OTHER ACCESSORIES, LIKE THE 3D-SEE SENSOR, TO DIRECT THE DISCHARGE HORIZONTALLY OR DIRECTLY AT A DEFINED HEAT SOURCE BASED ON THE CONFIGURATION SETTING.
 2. 4 STEP MODE: SEVERAL POSITIONS ARE AVAILABLE, SWING AND RIVED POSITIONS 1 TO 4. SWING MODULATES VANE POSITION WITHIN THE RANGE OF POSITIONS 1 TO 4. POSITION 1 PROVIDES A HORIZONTAL DISCHARGE DIRECTION. POSITIONS 2, 3, AND 4 VARY THE ANGLE OF DOWNWARD DISCHARGE WITH THE HIGHER NUMBER PRODUCING MORE DOWNWARD DISCHARGE. VANE POSITION CAN BE RESTRICTED TO PREVENT DISCHARGE FROM OCCURRING DIRECTLY ON OCCUPANTS.
 DRY MODE
 THERMOSTAT FUNCTION:
 THE SEQUENCE OF OPERATION OF THE EQUIPMENT WHEN IT IS IN DRY MODE VARIES BASED ON THE POWER ON/OFF STATE OF THE EQUIPMENT AND SPACE TEMPERATURE VALUE.
 1. WHEN THE EQUIPMENT IS ON AND SPACE TEMPERATURE > 64°F THE FOLLOWING CONTROL RULES ARE APPLIED:
 A. WHEN SPACE TEMPERATURE > 83°F, THE THERMAL MODE STATE CYCLES BETWEEN DRY THERMO ON FOR 9 MINUTES, AND DRY THERMO OFF FOR 3 MINUTES.
 B. WHEN 75°F > SPACE TEMPERATURE > 79°F, THE THERMAL MODE STATE CYCLES BETWEEN DRY THERMO ON FOR 7 MINUTES, AND DRY THERMO OFF FOR 3 MINUTES.
 C. WHEN 70°F > SPACE TEMPERATURE > 75°F, THE THERMAL MODE STATE CYCLES BETWEEN DRY THERMO ON FOR 5 MINUTES, AND DRY THERMO OFF FOR 3 MINUTES.
 D. WHEN 75°F > SPACE TEMPERATURE, THE THERMAL MODE STATE CYCLES BETWEEN DRY THERMO ON FOR 3 MINUTES, AND DRY THERMO OFF FOR 3 MINUTES.
 2. WHEN THE EQUIPMENT IS OFF AND SPACE TEMPERATURE > 64°F THE FOLLOWING CONTROL RULES ARE APPLIED:
 A. THE THERMAL MODE STATE CYCLES BETWEEN DRY THERMO ON FOR 3 MINUTES, AND DRY THERMO OFF FOR 3 MINUTES.
 B. WHEN THE EQUIPMENT IS OFF AND SPACE TEMPERATURE < 64°F THE FOLLOWING CONTROL RULES ARE APPLIED:
 C. THE THERMAL MODE STATE IS DRY THERMO OFF.
 ANTI-FREEZING CONTROL:
 ANTI-FREEZING CONTROL AS DESCRIBED FOR COOLING MODE IS DISABLED IN DRY MODE.
 FAN SPEED
 THE SPEED OF THE FAN IS CONTROLLED BASED ON THERMAL MODE STATE:
 1. WHEN THERMAL MODE STATE IS DRY THERMO ON FAN SPEED IS SPEED 1
 2. WHEN THERMAL MODE STATE IS DRY THERMO OFF AND SPACE TEMPERATURE > 64°F, FAN IS OFF
 3. WHEN THERMAL MODE STATE IS DRY THERMO OFF AND SPACE TEMPERATURE < 64°F, FAN SPEED IS SPEED 1
 NOTE: WHEN THE INDOOR EQUIPMENT IS IN DRY MODE, THE FAN SPEED CANNOT BE CHANGED FROM THE REMOTE CONTROLLER.
 VANE:
 VANE CONTROL UP/DOWN MOTION IS THE SAME AS COOL MODE OPERATION.
 HEAT MODE
 THERMOSTAT FUNCTION:
 1. THE UNIT IS CONFIGURED FOR AUTO (SINGLE) SETPOINT CONTROL. WHEN SPACE TEMPERATURE < SPACE TEMPERATURE SETPOINT - 2°F, THERMAL MODE STATE IS THERMO ON. WHEN SPACE TEMPERATURE > 2°F SPACE TEMPERATURE SETPOINT, THERMAL MODE STATE IS THERMO OFF.
 2. THE UNIT IS CONFIGURED FOR AUTO (DUAL) SETPOINT CONTROL. WHEN SPACE TEMPERATURE < OCCUPIED HEATING SETPOINT - 2°F, THERMAL MODE STATE IS THERMO ON. WHEN SPACE TEMPERATURE > OCCUPIED HEATING SETPOINT, THERMAL MODE STATE IS THERMO OFF.



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HVAC VRF EQUIPMENT SCHEDULES

NO SCALE