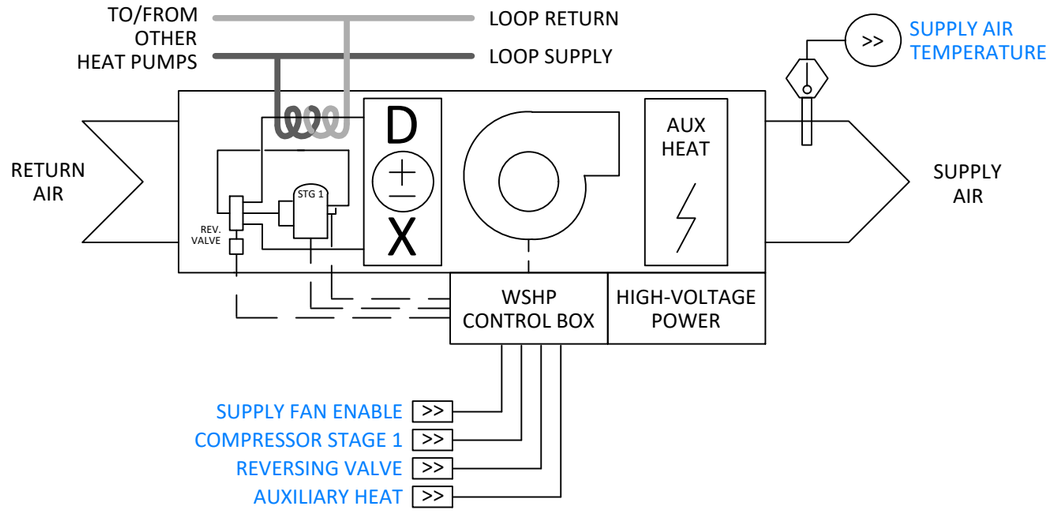
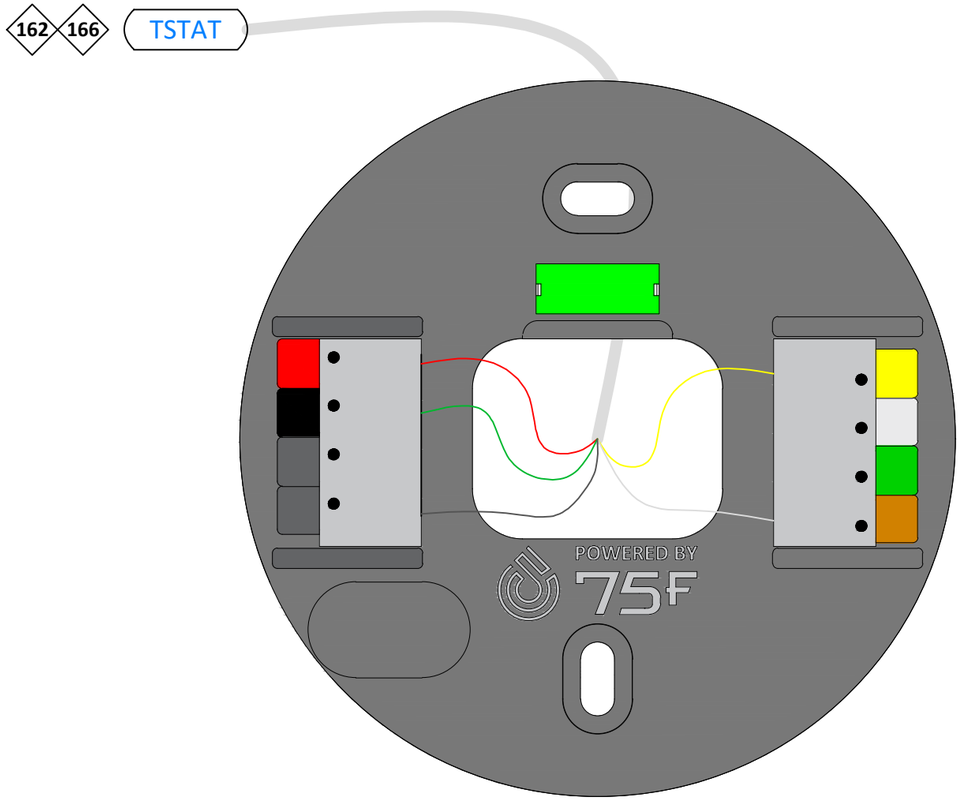
LOGICAL DIAGRAM



POINTS LIST

HYPERSTAT					
DESCRIPTION	**POINT**	**TAG**	**DEVICE RANGE**	**MFG**	**PART #**
SUPPLY AIR TEMPERATURE	U-IN	TSTAT	°F (10K TYPE II)	75F	3X-SE-C29X-X
COMPRESSOR STAGE 1	Y/K	TSTAT	CC = ENABLE	-	TO WIRE SAVER
SPARE	W	TSTAT	WET CONTACT		
SUPPLY FAN (FAN LOW SPEED)	G	TSTAT	CC = ENABLE	-	TO WIRE SAVER
REVERSING VALVE	O/B	TSTAT	CC = ENABLE COOLING	-	TO WIRE SAVER
SPARE	A-OUT		0-10VDC / 4-20mA		
POWER IN	R	TSTAT	24VAC	-	UNIT XFMR
24VAC COMMON	C	TSTAT	24VAC COMMON	-	UNIT XFMR

PHYSICAL DIAGRAM



SEQUENCE OF OPERATION

THE SINGLE-ZONE HEAT PUMP WILL USE THE DIFFERENCE BETWEEN THE CURRENT TEMPERATURE AND THE DESIRED TEMPERATURE FOR LOAD CALCULATIONS.

HEATING/COOLING

1. WHEN THE CURRENT TEMPERATURE IS BETWEEN THE HEATING DESIRED AND COOLING DESIRED TEMPERATURES, THE FAN, COOLING STAGE AND HEATING STAGE WILL BE OFF.
2. IF THE ZONE REQUIRES COOLING, THE FAN WILL START AND THE REVERSING VALVE WILL MOVE INTO THE COOLING POSITION (ENERGIZED=COOLING, ADJ.). AS THE CURRENT TEMPERATURE RISES ABOVE THE COOLING SETPOINT (73°F, ADJ.) THE COMPRESSOR WILL BE ENABLED. AS THE CURRENT TEMPERATURE DROPS BELOW THE COOLING SETPOINT, THE COMPRESSOR AND THE FAN WILL BE DISABLED.
3. IF THE ZONE REQUIRES HEATING, THE FAN WILL START AND THE REVERSING VALVE WILL MOVE INTO THE HEATING POSITION (DE-ENERGIZED=HEATING, ADJ.). AS THE CURRENT TEMPERATURE DROPS BELOW THE HEATING SETPOINT (68°F, ADJ.) THE COMPRESSOR WILL BE ENABLED. AS THE CURRENT TEMPERATURE RAISES ABOVE THE HEATING SETPOINT, THE FAN AND THE COMPRESSOR WILL BE DISABLED.
4. IF THE CURRENT TEMPERATURE DROPS 3 °F (ADJ.) BELOW THE HEATING SETPOINT, THE AUXILIARY HEAT WILL BE ENABLED UNTIL THE CURRENT TEMP REACHES THE HEATING SETPOINT

75F COMMISSIONING NOTES

- THE SYSTEM PROFILE WILL BE SET TO 'HEAT PUMP UNIT'.
- ENABLE RELAY 1 (Y/K), RELAY 2 (W), RELAY 3 (G), RELAY 4 (O/B), AND UI (UNIVERSAL-IN).
- CONFIGURE:
  - RELAY 1 AS 'COMPRESSOR STAGE 1
  - RELAY 2 AS 'AUX HEAT'
  - RELAY 3 AS 'FAN ENABLE'
  - RELAY 4 AS 'O - ENERGIZE IN COOLING' OR 'B - ENERGIZE IN HEATING' BASED ON REVERSING VALVE CONFIGURATION
  - UNIVERSAL-IN AS SUPPLY AIR TEMPERATURE

Drawing Notes:

1.

2.

3.

Project Name: 75F DESIGN MASTER REV. 1.4

Project Address:

DB: **CB:** **Page:** **of**

Drawing: MYSTAT SINGLE-ZONE WSHP W/ WIRE SAVER