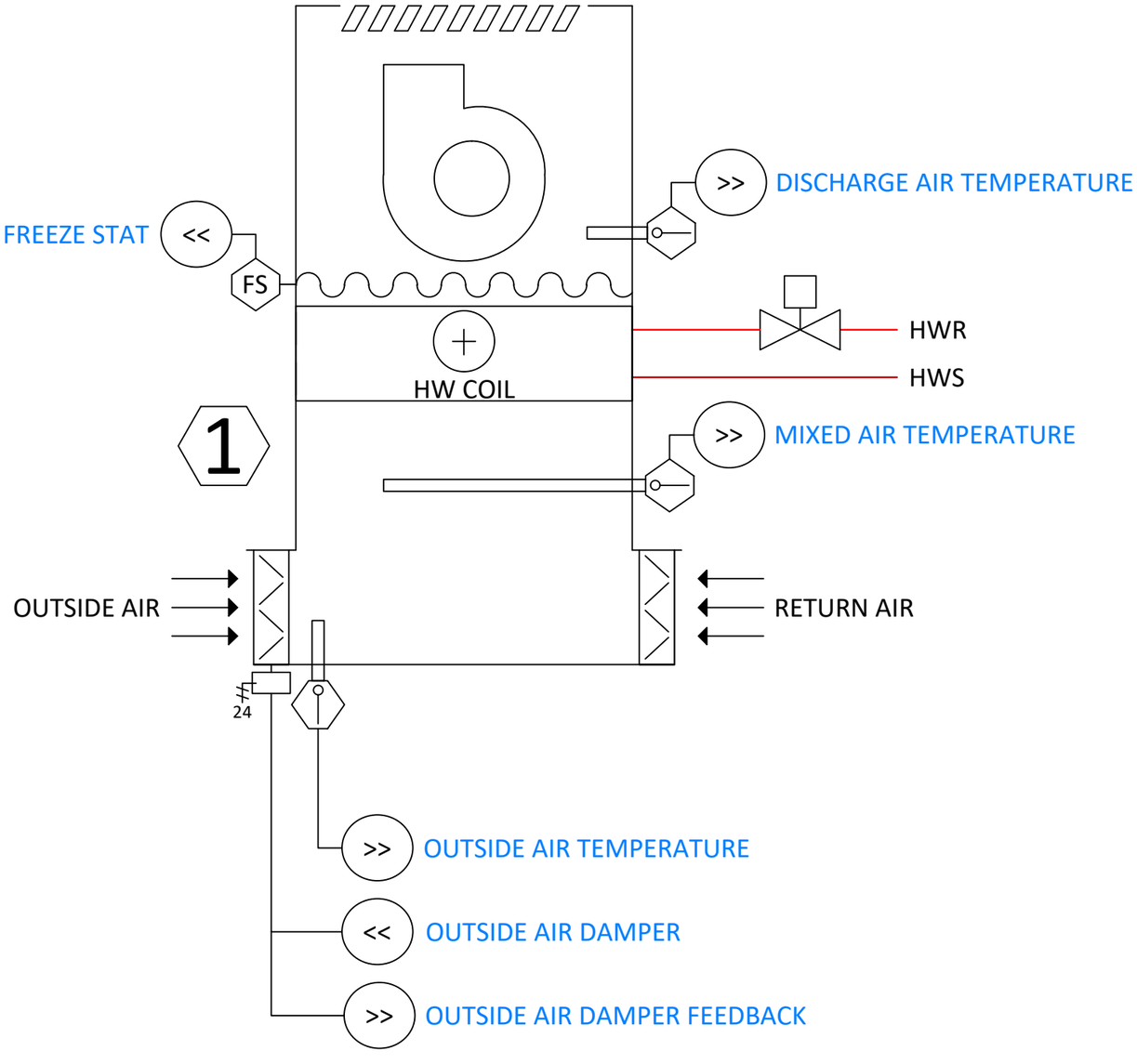
PHYSICAL DIAGRAM



POINT LIST

THE UNIT VENTILATORS WILL USE THE DIFFERENCE BETWEEN THE CURRENT TEMPERATURE AND THE DESIRED TEMPERATURE FOR LOAD CALCULATIONS.

HEATING

1. WHEN THERE IS A DEMAND FOR HEATING, THE SUPPLY FAN WILL START.
2. AS THE DEMAND FOR HEATING INCREASES, THE HOT WATER VALVE WILL OPEN TO MAINTAIN THE DESIRED HEATING TEMPERATURE.
3. THE MINIMUM VALVE POSITION WILL BE RESET BASED ON OUTSIDE AIR TEMPERATURE. AT 45°F, THE MINIMUM VALVE POSITION WILL BE SET TO 0% OPEN. THE MINIMUM VALVE POSITION WILL INCREASE AS THE TEMPERATURE DECREASES TO 15°F, WHEN THE MINIMUM VALVE POSITION WILL BE 50% OPEN.

DEMAND CONTROL VENTILATION

4. WHEN THE SPACE CO2 IS 1000PPM OR GREATER, A MINIMUM OUTDOOR AIR DAMPER POSITION WILL APPLY. THE MINIMUM POSITION WILL INCREASE BY 10% FOR EVERY 100PPM ABOVE THE THRESHOLD (E.G. 10% AT 1100PPM, 100% AT 2000PPM). THE MINIMUM DAMPER POSITION IS SUBJECT TO A 45°F MIXED AIR LOW TEMPERATURE LIMIT.

75F COMMISSIONING NOTES:

- SYSTEM PROFILE WILL BE SET TO "HYPERSTAT SPLIT - CONVENTIONAL PACKAGE UNIT AND ECONOMIZER".
- ENABLE AND CONFIGURE THE DEVICE AS PER THE TABLE BELOW :

-- DEACTIVATE OUTSIDE AIR OPTIMIZATION

-- HS CONNECT :
--- RELAY 3 = FAN LOW SPEED
--- ANALOG-OUT1 = DCV MODULATING DAMPER
--- ANALOG-OUT3 = HEATING
--- UNIVERSAL-IN1 = SUPPLY AIR TEMPERATURE
--- UNIVERSAL-IN2 = MIXED AIR TEMPERATURE
--- UNIVERSAL-IN3 = OUTSIDE AIR TEMPERATURE
--- UNIVERSAL-IN4 = EMERGENCY SHUT-OFF (N/C)
--- UNIVERSAL-IN5 = VOLTAGE INPUT
--- UNIVERSAL-IN6 = VOLTAGE INPUT

-- CONFIGURATION SETTINGS
ANALOG-OUT1 AT MIN DCV MODULATION DAMPER = 2V — ANALOG OUT-1 AT MAX DCV MODULATION DAMPER: 10V

-- CO2 SETTINGS
--- CO2 ZONE THRESHOLD = 800 PPM — ZONE CO2 TARGET = 1000 PPM

-- DISPLAY IN DEVICE HOME SCREEN
--- HUMIDITY = ON — CO2 = OFF
--- VOC = OFF — PM2.5 = OFF

LEAVE ALL OTHER SETTINGS AS DEFAULT.

Drawing Notes:
① WHERE APPLICABLE - LOCK FACE & BYPASS DAMPERS FULLY & PERMANENTLY CLOSED. ENSURE TIGHT AIR SEAL
②
③

75F

Project Name: 75F DESIGN MASTER REV. 1.4

Project Address:

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

Drawing: HYPERSTAT SPLIT UNIT VENTILATOR (LOGICAL)