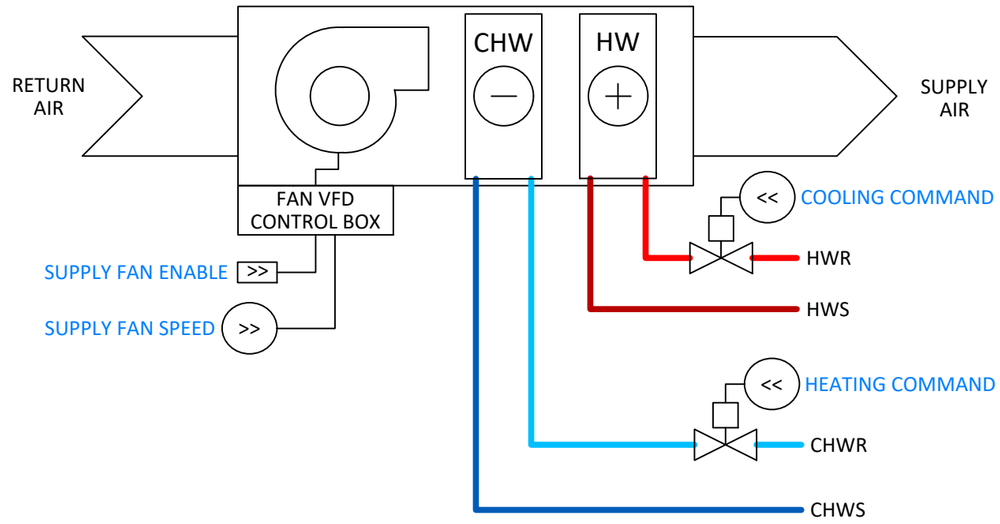
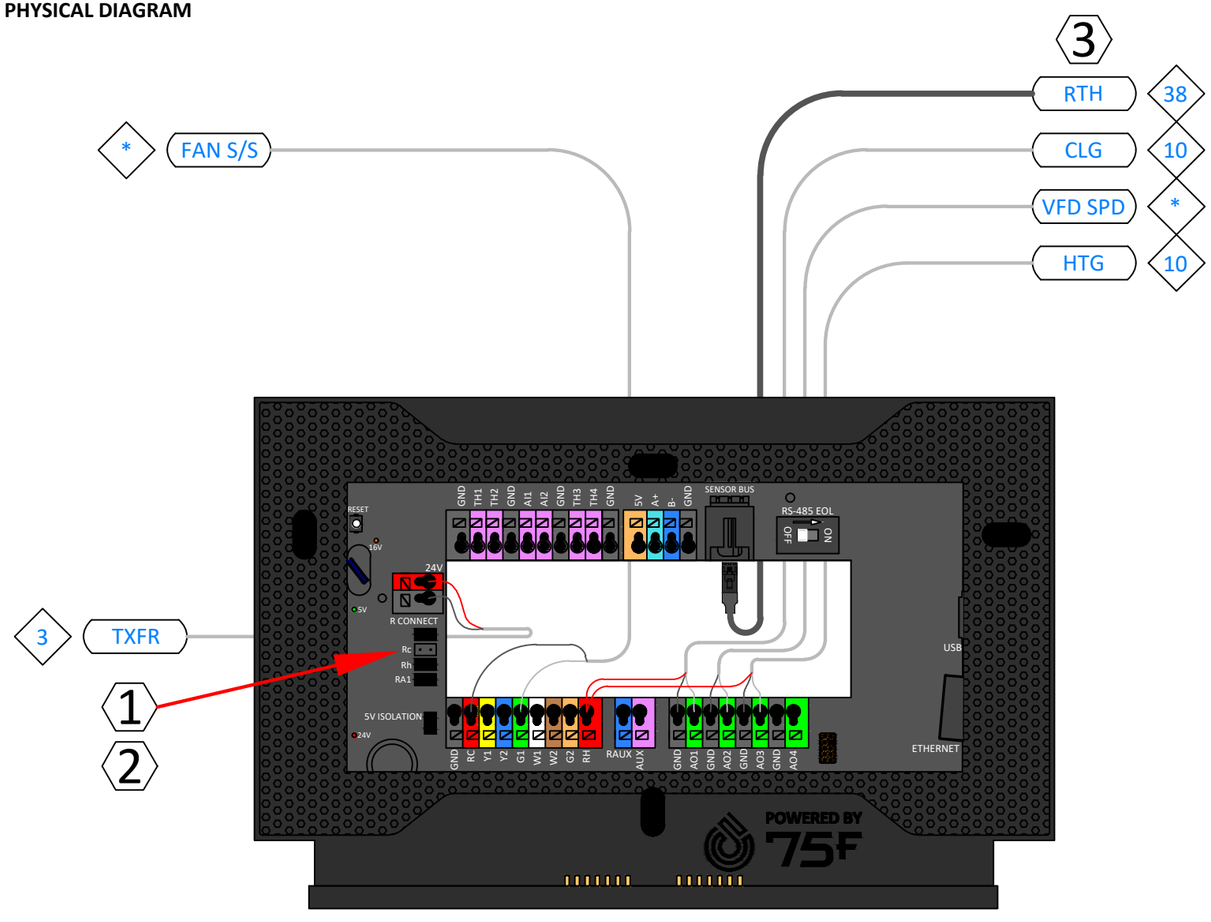
LOGICAL DIAGRAM



POINTS LIST

CENTRAL CONTROL UNIT (CCU)					
DESCRIPTION	**POINT**	**TAG**	**DEVICE RANGE**	**MFG**	**PART #**
SPARE	TH1		10K TYPE II OR DIGITAL		
SPARE	TH2		10K TYPE II OR DIGITAL		
SPARE	AI1		0-10VDC		
SPARE	AI2		0-10VDC		
SPARE	BO1 (Y1)		DRY CONTACT	-	
SPARE	BO2 (Y2)		DRY CONTACT	-	
SUPPLY FAN ENABLE	BO3 (G)	FAN S/S	DRY CONTACT		
SPARE	BO4 (W1)		WET CONTACT	-	
SPARE	BO5 (W2)		WET CONTACT	-	
SPARE	BO6 (O/B)		WET CONTACT		
COOLING COMMAND	AO1	CLG	2-10VDC = 1-100% OPEN		
SUPPLY FAN SPEED	AO2	FAN SPD	0-10VDC		
HEATING COMMAND	AO3	HTG	2-10VDC = 1-100% OPEN		
SPARE	AO4		0-10VDC		
POWER IN	R	TXFR	24VAC	75F	3X-PS-C7X-X
SPACE TEMP & HUMIDITY	RTS	RTH	3-PIN CABLE (NO LOCAL INTERFACE)	75F	7X-SE-C42K-X
SPARE	RS485		RS-485		

PHYSICAL DIAGRAM



SEQUENCE OF OPERATION

THE RTUs WILL USE THE DIFFERENCE BETWEEN THE WEIGHTED AVERAGE CURRENT TEMPERATURE AND THE AVERAGE DESIRED TEMPERATURE FOR LOAD CALCULATIONS. SINGLE ZONE RTUs WILL USE THE CURRENT TEMPERATURE OF THE TEMPERATURE INFLUENCING ZONE.

HEATING/ COOLING

1. WHEN OCCUPANCY BEGINS, THE UNIT WILL START THE SUPPLY FAN.
2. AS DEMAND FOR HEATING OR COOLING INCREASES, THE SUPPLY FAN WILL INCREASE PROPORTIONALLY FROM 0-100%
3. AS DEMAND FOR COOLING INCREASES, THE COOLING COMMAND WILL INCREASE FROM 0% - 100%.
4. AS DEMAND FOR HEATING INCREASES, THE HEATING COMMAND WILL INCREASE FROM 0% - 100%.

ECONOMIZING

5. THE ECONOMIZER (IF PRESENT) SHALL BE BY THE UNIT's INTERNAL CONTROLS.

75F COMMISSIONING NOTES:

- SYSTEM PROFILE WILL BE SET TO "DAB STAGED RTU".
- ENABLE: ANALOG-OUT 1, ANALOG-OUT 2, ANALOG-OUT 3, AND RELAY 3 (G1)
- CONFIGURE RELAYS AS FOLLOWS:
  RELAY 3 = FAN ENABLE
- SET CONFIGURATIONS AS FOLLOWS (FIELD VERIFY ALL SETTINGS):
  ANALOG-OUT 1 AT MIN COOLING: 2 — ANALOG-OUT 1 AT MAX COOLING: 10
  ANALOG-OUT 2 AT MIN STATIC PRESSURE: 0 — ANALOG-OUT 2 AT MAX STATIC PRESSURE: 10
  ANALOG-OUT 3 AT MIN HEATING: 2 — ANALOG-OUT 3 AT MAX HEATING: 10

* **NOTE: REFERENCE VFD INSTALLATION MANUAL FOR WIRING DETAILS AND CONFIGURATION INSTRUCTIONS.**

Drawing Notes:

1. WHEN DRY CONTACT IS NEEDED FOR VFD ENABLE, REMOVE RC JUMPER. FAILURE TO DO SO WILL VOID WARRANTY.
2. USE 24VAC FROM RH TERMINAL ONLY IF TOTAL ACTUATOR AND CCU POWER DOES NOT EXCEED THE TXFR CAPACITY
3. WALL SENSOR MUST BE INSTALLED IN A LOCATION MOST REPRESENTATIVE THE AVERAGE SPACE CONDITIONS

75F

Project Name: 75F DESIGN MASTER REV. 1.4

Project Address:

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

Drawing: DAB FULLY MODULATING AHU WITH RTH - XR