ADJUSTABLE MINIMUM STOP

KMC PROPORTIONAL ACTUATOR MEP-4002 (40 LBS.)

DAMPER ROTATION: CCW TO OPEN CW TO CLOSE

LINE VOLTAGE

GROUND   N   H

TOGGLE DISCONNECT SWITCH (OPTIONAL)

24 VAC TRANSFORMER (OPTIONAL) 20 VA MIN.

0 – 10 VDC SIGNAL TO PROPORTIONAL HOT WATER VALVE (NORMALLY CLOSED AT 0 VDC) (NORMALLY OPEN AT 10 VDC)

VT7200F5000 DIGITAL DISPLAY ROOM THERMOSTAT

RoomTemp 72.5 F

——— FACTORY WIRING

- - - - - FIELD WIRING

9
10
4
5

TERMINAL BLOCK

B05
B05
A02   HEAT
A01   COOL
24V HOT   24 VAC
24V COM   COMMON
UI3   CHANGE-OVER SENSOR

INSIDE COVER

CONTROL SEQUENCE: E9
COOLING WITH PROPORTIONAL HOT WATER REHEAT (VARIABLE AIR VOLUME)

Advanced micro-computer electronic and PI control algorithms provide precise temperature control. The thermostat provides a true multi-position modulating output to a proportional actuator. This eliminates wasted energy caused by typical on-off cycling with conventional thermostats resulting in significant energy savings and superior comfort. Control accuracy is ± 0.4 F (± 0.2 C) around set point. The room occupant is able to reduce the set point to the lowest comfortable setting. A mechanical air volume minimum stop is provided (field set).

Sequence of Operation:

Central system supplies cool air. On a rise in room temperature above set point, the bypass damper will slowly modulate open, increasing the flow of air to the room, closing the bypass at the same time. On a fall in room temperature below set point, the bypass damper will modulate closed, reducing the flow of cool air into the room and opening the bypass at the same time.
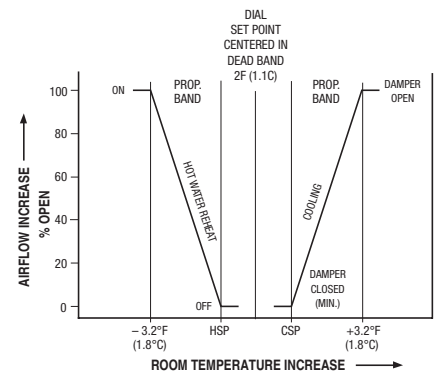
If room temperature continues to fall, the thermostat will energize the proportional hot water coil valve for reheat.

Note:

The room thermostat requires field configuration. See supplied VT7200F series installation guide.

Options and Accessories:

☐ 24 VAC Control Transformer
☐ Toggle disconnect switch
☐ Special features:

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DIAL SET POINT CENTERED IN DEAD BAND 2F (1.1C)

AIRFLOW INCREASE % OPEN

ON   PROP. BAND   PROP. BAND   DAMPER OPEN

HOT WATER REHEAT   COOLING

DAMPER CLOSED (MIN.)

OFF

−3.2°F (1.8°C)   HSP   CSP   +3.2°F (1.8°C)

ROOM TEMPERATURE INCREASE

SCHEDULE TYPE:				
PROJECT:				
		Dimensions are in inches (mm).		
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	7 - 24 - 19	3400	NEW	34RWCD-E9