



DFCV - FAN COILS WITH BACnet CONTROLLER, OUTSIDE AIR SUPPLY AND HUMIDIFIER OPTIONS.

Cooling Operation:

On a call for cooling, the chilled water valve will begin to modulate open. As the cooling demand increases, the valve will continue to open until the discharge air temperature reaches 52°F. On continued call for cooling, the fan will begin to modulate toward the maximum cooling fan airflow as the chilled water valve continues to modulate maintaining 52°F discharge air temperature.

Dead Band Operation:

With no demand in the space, there will be no call for heating or cooling. The fan will be at minimum airflow. The chilled water valve will be off. The hot water valve or the electric heater relay will be off.

Heating Operation:

On a call for heating, the fan shall begin to modulate from the minimum airflow toward the maximum heating airflow. On continued call for heating, when the fan reaches the first stage heating airflow, the first stage heat will be activated. The second stage heating will be activated when maximum heating airflow is reached.

VAV:

When in occupied mode, the damper will modulate to provide the assigned amount of outdoor air to the occupied zone. The unit fan will modulate to move at least the amount of makeup air that is being added to the occupied zone. If the room is over cooled, the chilled water valve will be closed.

BAS:

Controller is BACnet MS/TP compliant. Controller is Tested and listed by the BACnet Testing Laboratory.

Humidifier:

On a call for cooling, the humidifier is disabled. The humidifier is enabled when RH is below set point and system is in heating or dead band operation.

Options and Accessories:

Thermostat Display:

- °F or °C
- 24 VAC Control transformer
- 25 Feet Cable
- 50 Feet Standard Cable
- Humidifier Enable
- Special features: _____

SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

1 - 24 - 06

FCS

NEW

FCS-DFCV