



EFC Series Networkable Fan Coil Controller

The fan coil package consists of 2 parts, the thermostat and the EFC controller module. The controller incorporates a configurable fan coil algorithm, variable three speed fan control and either modulating or digital heating and cooling outputs.

- Fully configurable application specific controller
- Connects to room thermostat via 3 wires
- Native BACnet MS/TP or Modbus communication (selectable)
- 24, 120 or 240Vac
- Up to 11 inputs and 15 outputs



The Next Generation Is Here

NEW

- BACnet scheduler
- Firmware upgradeable via BACnet
- Copy and paste configuration via BACnet
- COV (change of value)
- BACnet or Modbus communication protocol selectable via thermostat menu
- Select direction on analog outputs
- Select thermostat's default display
- More outputs: 4 Triac and 4 Analog outputs
- And more...

Control Features

- Inputs:
 - 4 analog inputs (0-10Vdc or 10K Ohms)
 - 3 dedicated analog sensor inputs
 - 4 dedicated digital sensor inputs
- Outputs:
 - 4 analog outputs (configurable)
 - 4 TRIAC outputs (configurable)
 - 3 fan outputs
 - Up to 4 digital outputs (configurable)
- Real Time Clock (RTC) with 24 hour backup
- Configurable PI (Proportional-Integral) function
- Selectable proportional control band and dead band
- 3-speed or ECM (analog) fan control
- Selectable internal or external temperature sensor (10KΩ)
- Change over by contact or external temperature sensor
- Freeze protection

Models

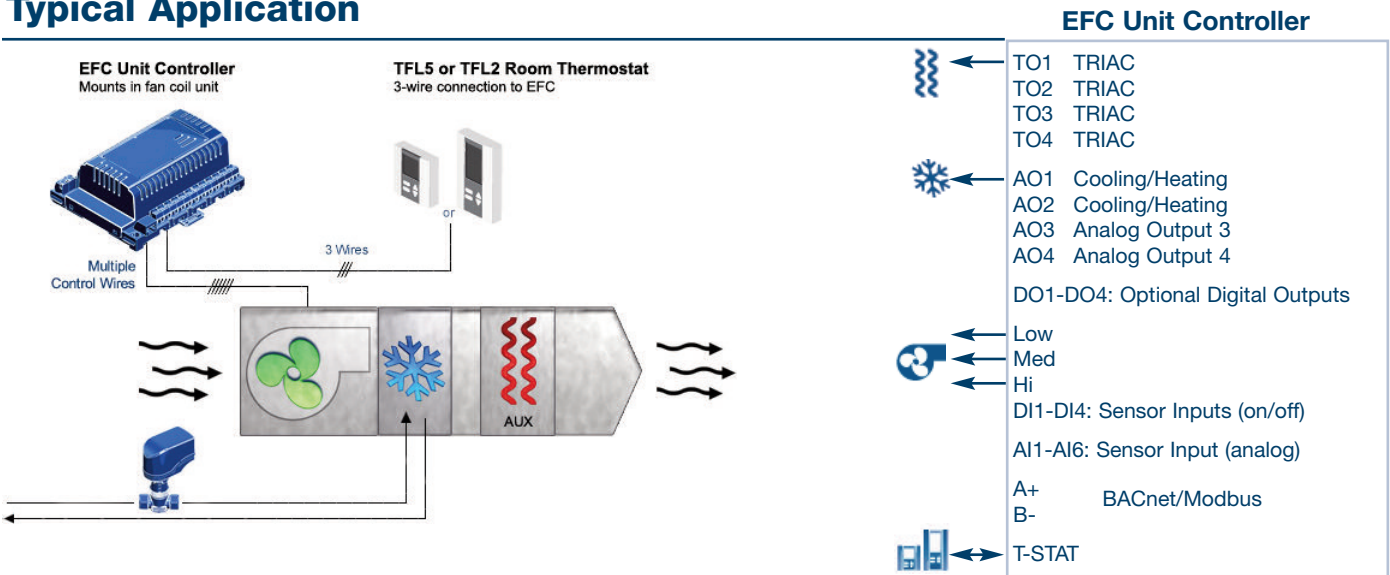
Model	Supply	DO (3A)	TO	AO	DI	AI
EFCB10TU2	24Vac	2	4	4	4	6
EFCB10TU4	24Vac	4				
EFCB11TU2	120Vac	2				
EFCB11TU4	120Vac	4				
EFCB12TU2	240Vac	2				
EFCB12TU4	240Vac	4				

Thermostats

TFL24	2x4 Thermostat
TFLH24	2x4 Thermostat with Humidity
TFL54	3x3 Thermostat
TFLH54	3x3 Thermostat with Humidity

- Backlit LCD with simple icon and text driven menus
- Selectable Fahrenheit or Celsius scale
- Manual night set back or no occupancy override
- Multi level lockable access menu
- Lockable setpoint

Typical Application



BACnet Application Specific Controllers

BACnet Scheduler

Configure a weekly schedule with up to 6 events per day.

Firmware Upgradeable

Upgrade the controller version via BACnet to access new features and/or updates.

Copy and Paste Configuration

Copy the controller's entire configuration and broadcast it to other controllers of the same type on the same network. This can be done via menu or via BACnet.

COV (change of value)

Increase precision and reduce traffic by defining certain objects to communicate as soon as the value is changed.

Select Analog Output Direction

You can now select direct or reverse acting analog outputs

Configurable Thermostat Display

Define the thermostat's display to meet your needs:

- Temperature and demand
- Setpoint and demand
- Temperature only
- Setpoint only
- No display

Two MAC Address Configuration Methods

Set MAC address via user friendly menu on thermostat or locally on unit via DIP switches.

Auto Device Instance Configuration

The controller automatically configures its device instance to a default value + MAC address.

Auto Baud Rate Detection

The controller automatically configures its baud rate by detecting the network speed upon connection.

Over 150 BACnet Objects

Thanks to this open protocol, we provide over 150 BACnet Objects per controller so you can read, write information as you monitor and trend status of operation, alarms and schedules.

Service Display

If you are searching for a specific device, enabling the service mode will flash the device to easily locate the device.

