

HANWEST MODEL FSC-10A

OUTDOOR FAN SPEED CONTROL FOR REVERSE CYCLE AIR CONDITIONERS



DESCRIPTION.

The FSC-10A is a universal outdoor fan speed controller designed to maintain ideal operating conditions in most reverse cycle air conditioners.

In conjunction with the supplied coil sensor, the FSC-10A will monitor the outdoor coil temperature in both Cool AND Heat modes and provides a variable speed output to the outdoor fan motors thus maintaining acceptable head pressures in both modes of operation.

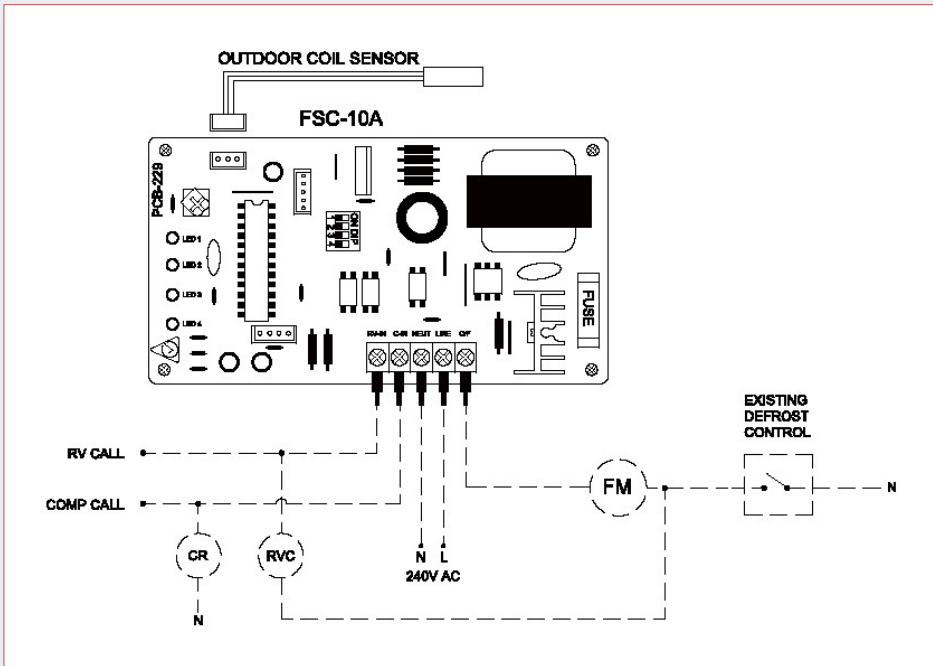
The FSC-10A is suitable for controlling most 240 volt AC motors with axial type fan blades. Maximum output of 10 amps. Comes mounted on a plastic base for ease of installation

OPERATING PARAMETERS

The **FSC-10A** provides 3 modes of operation in COOL mode and 2 in HEAT mode:

- **Standard Function**—Fan speed modulates with changes in outdoor coil temperature. Cycles off when required with low ambients in cool mode, and high ambients in heat mode.
- **Constant Function**—Fan speed modulates with changes in outdoor coil temperature but will remain at low speed with low ambients in cool mode, and high ambients in heat mode
- **Warm Up Function** in Cool mode — On each compressor start, the fan is held off until the outdoor coil temperature reaches a pre determined set point, at which point the fan will run at low speed for 15 seconds, then modulates with changes in outdoor coil temperature. There are 4 selectable set points via onboard dip switches. In Heat mode the fan operates as per Standard Function.

All three modes are dip switch selectable by the installer.



Typical wiring connections for turning the outdoor fan motor off during defrost cycle in heat pump reverse cycle units where the defrost controller breaks the neutral of the reversing valve and fan motor

LED INDICATION STATUS

LED 1 GREEN	MAINS POWER ON
FLASHING GREEN/RED	SENSOR OPEN CIRCUIT
LED 2 GREEN	FAN INPUT SIGNAL ON
LED 3 RED	HEAT INPUT SIGNAL ON
LED 4 CONSTANT YELLOW	FULL SPEED FAN OUTPUT
FLASHING YELLOW	VARIABLE SPEED FAN OUTPUT
OFF	NO FAN SPEED OUTPUT

The FSC-10A provides full torque to the fan motor even at its lowest speed.

In the event of the fan motor freewheeling in the wrong direction due to strong winds during the fan off cycle, the FSC-10A provides enough torque on start up, even at low speed to spin the fan motor in the correct direction

Typical wiring connections where an existing outdoor controller board disconnects the 240 volt supply to the reversing valve. In this instance the fan will automatically stop when the 240 volt input to RV-IN terminal is de-energized and restart when the input is reconnected after defrost is terminated.

Note: In 'Constant' mode the fan will continue to run during any defrost period.

