# FC Series Fan and Heater Control

Model: FC-1T-1VAC-1F

## Control ventilation and heating with one easy-to-use controller

The Fan and Heater Control (FC-1T-1VAC-1F) automatically controls the temperature in a room by adjusting the speed of variable speed fans and controlling a heater interlock.

### How it works

- When the temperature is at the temperature set point, the FC-1T-1VAC-1F operates the fans at the idle speed setting and the heater is off.
- When the temperature exceeds the set point, it increases the speed of the fans.
- When the temperature drops below the set point, it shuts off the fans (in shut-off mode) or operates the fans at idle speed (idle mode) and switches on the heater or heat lamps.

## Features

- One variable stage
- One heater interlock output
- Automatic shut-off and idle modes
- Adjustable off set-back for shut-off mode (0 to 16°F)
- Adjustable idle speed for idle mode (0 to 99%)
- Adjustable temperature set point, range: 32 to 99°F (0 to 37°C)
- Adjustable temperature differential (1 to 20°F)
- Three-second full-power-turn-on to minimize fan ice-up
- LED display
- Fahrenheit and Celsius display
- Error code display for troubleshooting
- Overload protection fuse
- Six-foot temperature sensor, extendable to 500 feet
- NEMA 4X enclosure (corrosion resistant, water resistant, and fire retardant)
- CSA approval
- Two-year limited warranty

## Electrical ratings

- **Input** — 120/230 VAC, 50/60 Hz
- **Variable stage** — 10 A at 120/230 VAC, general-purpose (resistive)
  7 FLA at 120/230 VAC, PSC motor
  1/2 HP at 120 VAC, 1 HP at 230 VAC, PSC motor
- **Variable fuse** — 15 A, 250 VAC ABC-type ceramic
- **Relay** — 10 A at 120/230 VAC, general-purpose (resistive)
  1/3 HP at 120 VAC, 1/2 HP at 230 VAC
  360 W tungsten at 120 VAC

## Accessories

### *Manual Override Box*

The Manual Override Box (**model MOB-4**) increases the load handling capability of your control's relays and provides an external disconnect. The MOB-4 includes four 240 V power contactor relays with AUTO-OFF-MANUAL switches and snubber filters. The actuator override kit (**model KMOB4-ACTUATOR**) adapts two of the switch and relay pairs to manually open and close actuators or curtain machines.

### *Temperature sensors*

Additional temperature sensors allow you to use 4-zone temperature averaging. Sensors are available several lengths and can be extended up to 500 feet using extension cable.

## Additional information

For more information about the FC-1T-1VAC-1F or other products from Phason Controls, contact your dealer or visit www.phasoncontrols.com.