

***Product Information sheet
HPC326 Head Pressure Controller***



General Description:

The **MJB** HPC326 operates as temperature-sensitive fan motor speed control. Head pressure is regulated during low ambient conditions by varying the amount of airflow through the condenser coil. This helps ensure sufficient pressure across the expansion valve, helping to prevent costly downtime.

Operation:

Upon initial application of power to the controller, the output voltage will be in the "Hard start" mode for a specified period of time. This time may be either factory fixed or field adjustable from 0.1 - 5 seconds.

Upon completion of the Hard Start period, the output voltage control reverts to the temperature probe. Speed control will not occur until the line temperature falls

below 40 deg ^C. Above 40 deg ^C full voltage will be applied to the motor such that there is no loss in condensing efficiency. As the temperature being sensed decreases, the output voltage to the fan motor will decrease to the determined "Low Temperature Cut-off". Upon reaching the Low Temperature Cut-off setting, the output voltage will go to zero volts thus effectively turning the fan off until the condenser coil temperature rises above the Low Temperature Cut-off temperature. The Low Temperature Cut-off setting may be either factory fixed or field adjustable.

The system will restart the fan once the temperature exceeds the "Low Temperature Cut-off" temperature by a pre-determined amount, which is the system hysteresis (Deadband). The hysteresis is factory fixed.

Removal of the line voltage will de-energize the output immediately. Re-application of the line voltage will energize the output at maximum voltage for the Hard Start duration, regardless of the value of the thermistor input.

Specifications:

Input Voltage	240V AC, 50 Hz. (Other voltage on request)
Output	Solid State Triac; 6 amps max. 100 mA minimum.
Leakage Current	5 mA Max.
Voltage Drop	3 Volts Max.
Power Consumption:	1 watt max.
Mounting:	15/32/35mm DIN Rail.
Visual Indication:	Green LED Flashes for full speed, part speed and standby modes
Size:	72 mm x 76 mm

