

Draft Regulator with Linear Actuator

99

Model HC-09502-1012

The HC-09502-1012 is housed in a durable metal enclosure with a removable cover. The HC-09502-1012 is a direct replacement for CDR model # 9502-1012-B-8. The HC-09502-1012 provides automatic modulation for any negative or positive draft application. Specifications Weight & Dimension: 21 lbs. 17.5" L x 7.5" W x 5.9" H Power Requirements: 120 VAC, 50/60Hz Motor: 72 RPM synchronous motor Sample Connection: 1/4" NPT female fitting Ambient Temperature Range: 0 to 140F (-18 to 60C)

- Offers a 6-inch range of travel with a 60-second nominal stroke time. The HC-09502-1012's thrust range is rated at 150 lbs with a cool-running 72 RPM synchronous motor.
- The actuator is self locking in the "last" position if there is a power loss.
- Preferred's HC-09502-1012 interfaces with your burner management system:
 - The HC-09502-1012 is a sequencing draft controller.
 - Includes burner management interfacing relays for automated Open damper during Purge, and Closed damper after shutdown.
 - Includes an Automatic/Open selector switch. This allows the user to blow soot without interrupting the burner firing and allows the burner to fire in the "Open" damper mode under emergency conditions.
- Sensing and control functions offered via the PID controller are as follows:
 - A solid state sensor provides an accurate, low drift signal to the controller.
 - Field-adjustable Set Point for both positive pressure and negative draft applications.
 - Adjustable Sensor Dampening to reduce the effects of flame induced draft pulsations.
 - Adjustable Proportional Band for control of the rate of actuator movement in relation to the set point.
 - Adjustable Dead Band to prevent actuator "hunting" near the set point.



Ordering Information

Description	Catalog Number
Hays Cleveland by Preferred Draft Control System with Linear Actuator	HC-09502-1012



HC-09502-1012 Top down Open

Model HC-09502-1012

100

Dimension:	17.5" L x 7.5" W x 5.9" H
Weight:	21 lbs.
Power Requirements:	120 VAC, 50/60Hz, 360 VA
Motor:	72 RPM synchronous motor
Sample Connection:	¼" NPT female fitting
Ambient Temp Range:	0° to 140°F (-18 to 60C)
Travel:	6 inch linear, 60 sec. Stroke
Thrust:	150 lb
User Auxiliary Switch:	Damper Fully Open, 16A, 250VAC
Set Point:	Adjustable, 0 to +2.0" wc, or 0 to -2.0" wc (field selectable)

Dampening:	Adjustable, 1.5 to 15 seconds for 90% response to a step change
Dead Band:	Adjustable, 0.01 to 0.08" wc
Proportional Band:	Adjustable, 0.03 to 0.2" wc

