

Horizontal Air Curtains for Hot Box Detectors

Fastrax™ HAC/HBD Series Horizontal Air Curtains for Hot Box Detectors ensure reliable operation of hot bearing detectors all winter long. The scanner line of sight is kept clear by covering the scanner with a high velocity curtain of ambient temperature air to prevent the accumulation of snow and freezing rain. When left to run continuously, the HAC takes advantage of a phenomenon called sublimation, providing additional clearing capability by evaporating ice from frost build-up.

Fastrax™ HAC/HBD is intended for use with detectors mounted straddling a tie and can be modified for crib mounting. The HAC/HBD snow clearing device consists of a compact electrically powered centrifugal blower equipped with a low velocity intake, ducting and two nozzles. The air from the blower is ducted below the rails, exits the rail mounted nozzles at approximately 100 mph, and is directed over the hot box detector.



Figure 28 – HAC/HBD



Figure 29 – Complete HAC/HBD package

Model Coding

HAC/HBD	-	1	1	-	15	-	DT
Model Series		Voltage	Frequency		Power		Accessories
HAC/HBD – Fastrax™		1 - 240V	1 - 1 Ph		15 – 1.5 HP		D - Delay Start Timer
Horizontal Air Curtain							T - Temperature Switch
for Hot Box Detectors							

Features

Compatibility

- Servo and Southern Technologies detectors

Performance

- 1.5 HP HAC delivers peak nozzle velocity of 100 mph

Construction

- 14 gauge cold rolled steel, including nozzles
- Durable epoxy powder coated blower, intake, and duct work
- Direct drive centrifugal blower
- Stainless steel electrical box
- Match balanced motor and impeller sets, to less than 0.2 ips peak to peak

Size & Operating Voltage

- 1.5 HP, 240V AC, 8 amp, 1 phase

Controls

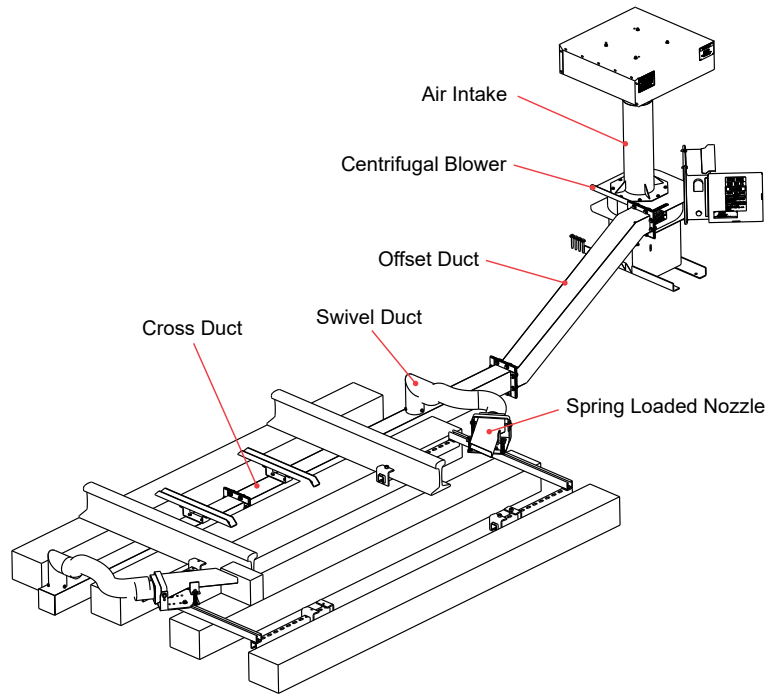
- Weather-tight NEMA 3R electrical enclosure
- REMOTE/AUTO/MANUAL modes
- Magnetic motor starter complete with thermal overload protection

Terminal Block Wire Size

- #12 to #4 AWG copper

Electrical Isolation

- Ducting, nozzle connections and unistruts are electrically isolated to eliminate the possibility of short circuiting rails
- Connections are designed and tested to withstand a maximum of



1500V AC for 3 seconds

