

## P&H Mine Air Systems Model 36I

### Summary

P&H Mine Air Systems (MAS) climate control units provide effective air conditioning, heating, air filtration and pressurization on mining equipment around the world.

The MAS 36I is a roof-mounted unit specifically designed for mobile mining equipment such as haul trucks, diesel hydraulic production drills, bulldozers, graders, wheel loaders and small to medium size hydraulic excavators.

Built into the MAS 36I is a modular, fully self-contained 24-volt DC compressor that eliminates the need for a conventional engine-mounted compressor and associated components such as refrigerant lines, fittings, drive belt and pulleys.

### Benefits

- **Frees-up Maintenance Resources, Reduces Operating Cost**

- ▶ P&H MAS 36I units are designed to eliminate maintenance-intensive HVAC components including:
  - Engine mounted compressor
  - Drive belts
  - Pulleys
  - Refrigerant lines.

- ▶ Compressor shaft seals found on belt-drive compressors eventually wear out, resulting in refrigerant leakage, and reduced system efficiency.



- ▶ Long refrigerant lines connected to engine-mounted compressor units complicate machine system layout, require additional refrigerant, and are prone to leaks from rubbing, burning and cutting. All refrigerant is contained within the MAS 36I unit eliminating the need to constantly service and maintain refrigerant lines. This significantly reduces maintenance costs and increases equipment uptime.

### System Benefits

- Frees-up Maintenance Resources
- Reduces Operating Cost
- Increased Ease-of-Maintenance
- Modularity = Increased Equipment Uptime

- ▶ P&H MAS 361 climate control units eliminate the above-noted system components and associated maintenance costs. This frees-up maintenance resources for other tasks.

- **Increased Ease-of-Maintenance Reduces Costs**

The P&H MAS 361 is totally isolated from the engine unit on your mobile equipment. This means there are no refrigerant lines and compressors interfering with regular engine maintenance. Time is money. P&H MAS 361s are designed to help mine maintenance save time and money.

- **Modularity = Increased Equipment Uptime**

P&H MAS 361 units can be swapped-out with a service exchange unit in 30 minutes, thanks to modular design and construction aimed at simplifying and reducing maintenance resource cost. Less time applied to P&H MAS 361 change-outs results in more uptime for your valuable fleet of mobile equipment.



*Inside cab view of P&H MAS 361 unit.*

## Description

Roof mounted climate control system with optional remote mounted dedicated pressurizer (24V DC PR-PK-125).

Feature	Specification
Electrical	24 Volt DC; Maximum 55 Amp current draw
Recirculated Air Flow	High Speed 400 CFM Medium Speed 325 CFM Low Speed 165 CFM
Safety Controls	Field replaceable without refrigerant loss. Low and high pressure monitoring.
Compressor	Internal 24 V DC electric.
Pressurization (Optional)	100 CFM, self-cleaning pre-cleaner. Maintainable second stage filter cup. Donaldson radial seal disposable filter element (no fasteners).
Filters	MERV 8 rated in-cab filter. 3.0 to 10.0 micron particle size. 22 1/4" long x 4 1/2" wide x 3/4" thick.
Physical Size	37 1/8" long (incl. Louver) x 33 9/16" wide (incl fans) x 11 1/8" tall (943 mm x 838 mm x 283 mm)
Modularity	Unit swap – 30 minutes Electrical back pan – 10 minutes Control-plenum module- 10 minutes
Cooling Capacity	13 000 BTUH @ 80°F DB / 67°F WB Return Air, 120°F Ambient
Heating Capacity	47,000 BTUH @ 180°F glycol entering, 7.7 gpm, flow modulated through automatic cycling solenoid valve.
Refrigerant	R134A, 3.5 lbs charge
Control	Electronic temperature modulation. Fan speed selector control. Independent pressurizer control. Function LEDs to indicate operating mode. Cooling mode / heating mode switch.
Construction	Case 16 gauge 304 stainless steel, 2B finish. Coils copper tube/aluminum fin-10 fins / inch; sine wave style fins to achieve greater efficiency.
Weight	216 Lbs (98 kgs)



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