

Model 361 Mine Air Systems Technical Data

System benefits

- Frees up maintenance resources
- Reduces operating cost
- Increased ease of maintenance
- Modularity equals increased equipment uptime

Description

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

Summary

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

The MAS 361 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 361 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

- MAS 361 units are designed to eliminate maintenance-intensive HVAC components including
 - Engine mounted compressors
 - Drive belts
 - Pulleys
 - Refrigerant lines
- MAS 361 climate control units eliminate the above-noted system components and associated maintenance costs. This frees-up maintenance resources for other tasks.
- 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 361 unit eliminating the need to constantly service and maintain refrigerant lines. This significantly reduces maintenance costs and increases equipment uptime.

For more information, contact a local Komatsu Mining Corp. representative or visit komatsu.com

Increased ease of maintenance reduces costs

- The 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. The MAS 361 is designed to help mine maintenance save time and money.

Modularity = increased equipment uptime

- 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 MAS 361 change-outs results in more uptime for your valuable fleet of mobile equipment.



Feature	Specification
Electrical	24 Volt DC; maximum 60 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 565 mm long x 114 mm wide x 19 mm thick (22.25" x 4.5" x .75")
Physical size	943 mm long (incl. Louver) x 838 mm wide (incl fans) x 283 mm tall (37.125" x 33.5625" x 11.125")
Modularity	Unit swap – 30 minutes Electrical back pan – 10 minutes Control-plenum module- 10 minutes
Cooling capacity	13,000 BTUH @ 27°C (80°F) DB / 19°C (67°F) WB return air, 49°C (120°F) ambient
Heating capacity	22,500 BTU/hr @ 82°C (180°F) glycol entering @ .32 l/s (5 gpm), flow modulated through automatic cycling solenoid valve
Refrigerant	R134A, 2kgs (4.5 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	98 kgs (216 lbs)

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