

MX Series 24 VDC High-Capacity Remote Compressor/Condenser

Mine Air Systems

Technical data

Product application

- Mobile diesel-powered haul trucks, dozers, graders, loaders and similar equipment

Benefits

- Improves air conditioning system performance and equipment uptime by replacing the typical engine-mounted, belt-driven compressor/condenser system with a modular 24 VDC high-capacity remote compressor/condenser unit
- Reduces maintenance costs associated with engine-mounted, belt-driven compressor/condenser systems that can interfere with engine maintenance access
- A low-profile version is also available — capacities are the same, footprint varies
- The MX Series controls allow remote fault monitoring and easy diagnosis



MX products feature a Mine Air unique drive with open CAN I/O

Summary

The P&H brand Mine Air systems high-capacity remote compressor/condenser (RMX) is a mounted 24 VDC compressor and condenser unit. The RMX is designed as a replacement for conventional engine-mounted, belt-driven compressor and condenser arrangements on a wide variety of mobile diesel-powered mining equipment, including haul trucks, graders, dozers and front-end loaders. The RMX is designed to tie into the existing OEM air conditioning system and utilizes the existing dash-mounted OEM evaporator coil, blower, ducting and vents.



Description

The RMX is a modular unit, driven by a 24-volt DC scroll compressor/condenser that can be mounted close to the operator cab and integrated with the OEM AC system after the engine-mounted, belt-drive compressor unit and longer refrigerant lines are removed.

The RMX features two quick-disconnect ports for the shorter, relocated refrigerant lines, and two plugs for the control and the power. If the RMX needs to be replaced, the change-out process can be completed within approximately 30 minutes with the proper tools and equipment.

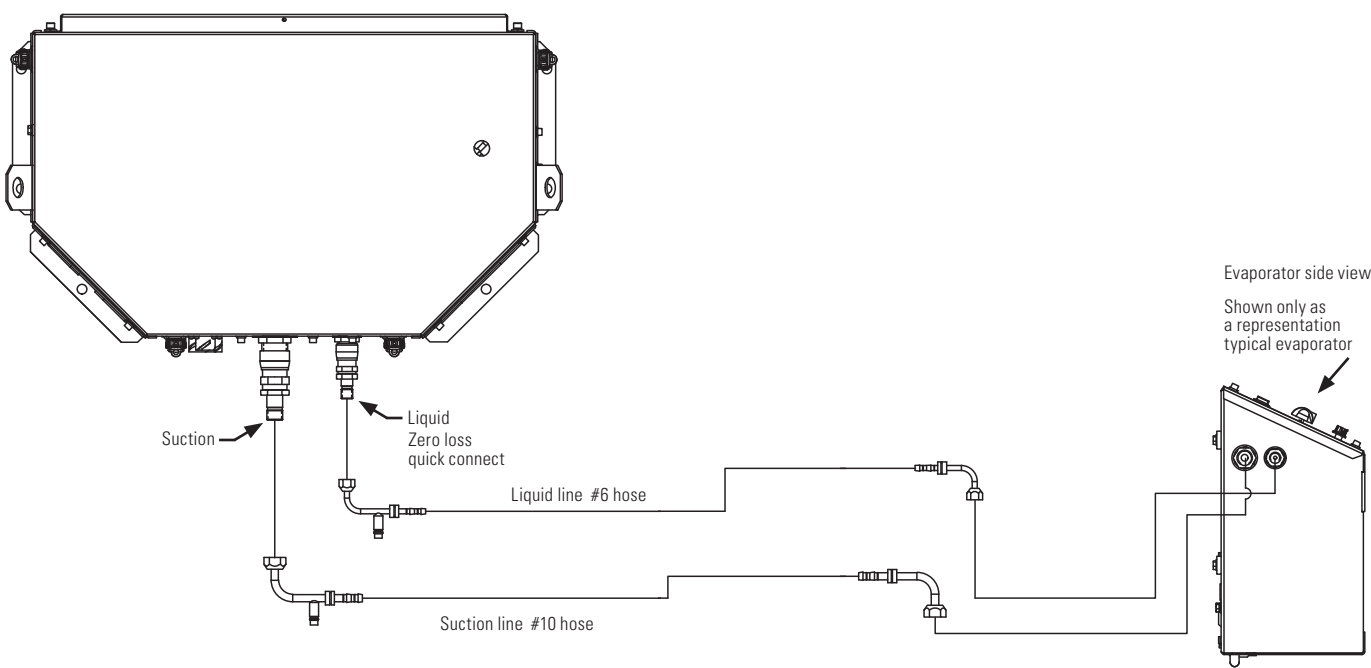
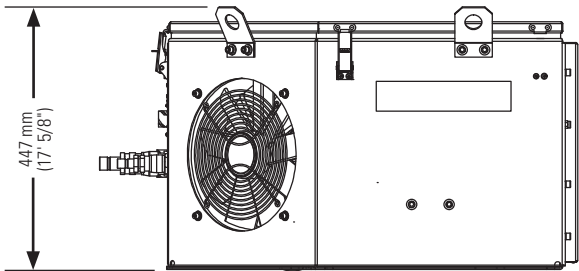
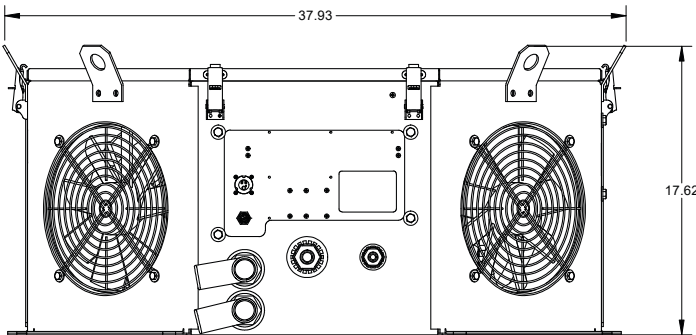
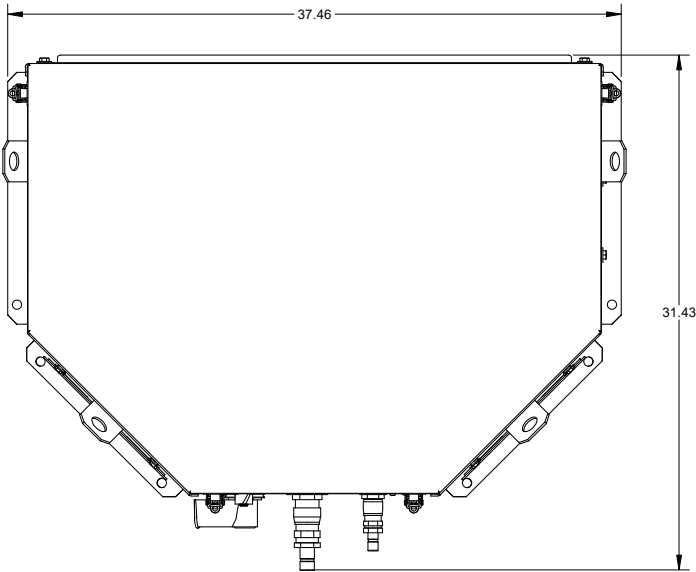
A variety of kits are available to make installation quick and easy for many popular mining machines, including pre-engineered roof racks that are ROPS/FOPS friendly.

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

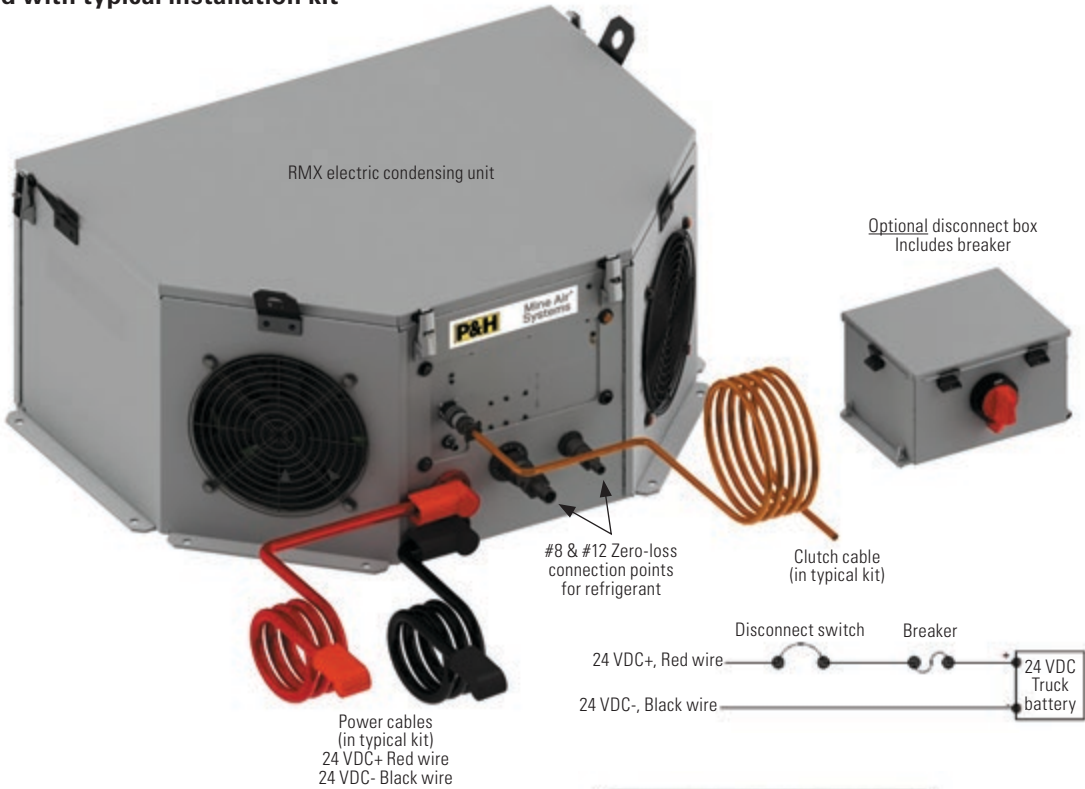
Technical characteristics

Feature	Specification
Description	Remote-mounted air conditioning condenser c/w compressor
Electrical	24-volt DC, max current draw of 110 A; typical operation current of 75 A
Compressor	24-volt DC hermetically sealed scroll compressor
Physical size	951x811 mm (37' 7/16"x31' 15/16") long by 447 mm (17' 5/8") high
Modularity	Unit swap 30 min
Capacity	20,150 BTU/h at 43 C (110 F)
Refrigerant	R134A
Oil	POE <u>only</u>
Construction	Case; 16 gauge 304 stainless steel Coils; copper tube, 8 fins per inch
Weight	75 kg (175 lbs.) installed

MAS Model RMX dimensions



Illustrated with typical installation kit



Optional DAQ HMI
Can be used for fault review, diagnosis, and software upgrades as applicable. This is especially helpful for a diagnostic tool for our fleet customer (1 per fleet)
(CAN Signal available for system use)





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