

MX Series 24 VDC High-Capacity Remote Compressor/Condenser

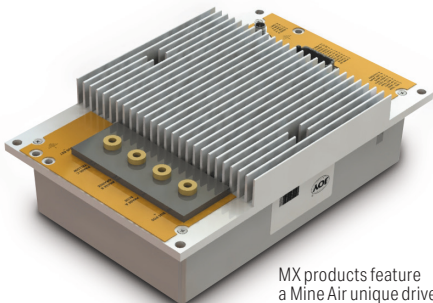
Mine Air Systems Technical data

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

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

Summary

Komatsu 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.

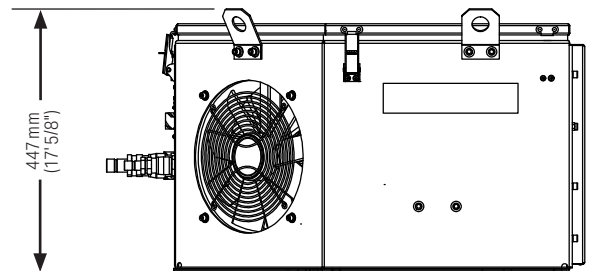
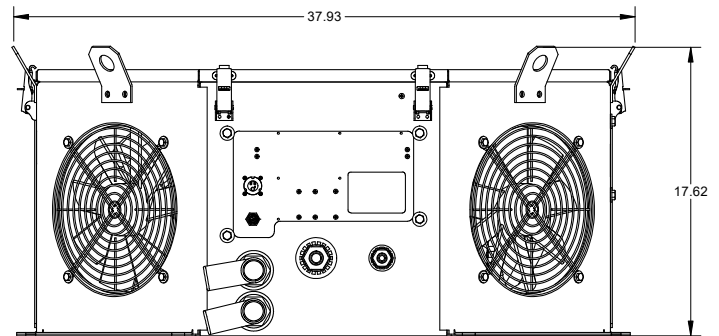
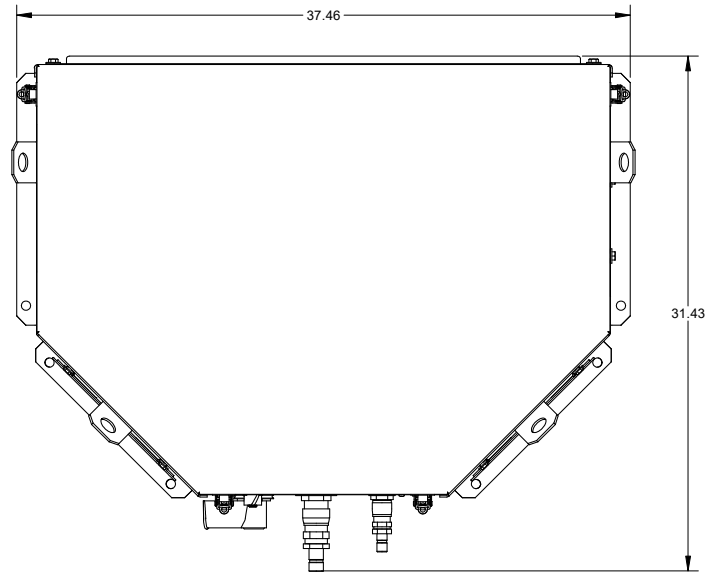
The RMX features two quick-disconnect ports for the shorter, relocated refrigerant lines, and two plugs for the control and the power. If the RMX needs to be replaced, the change-out process can be completed within approximately 30 minutes with the proper tools and equipment.

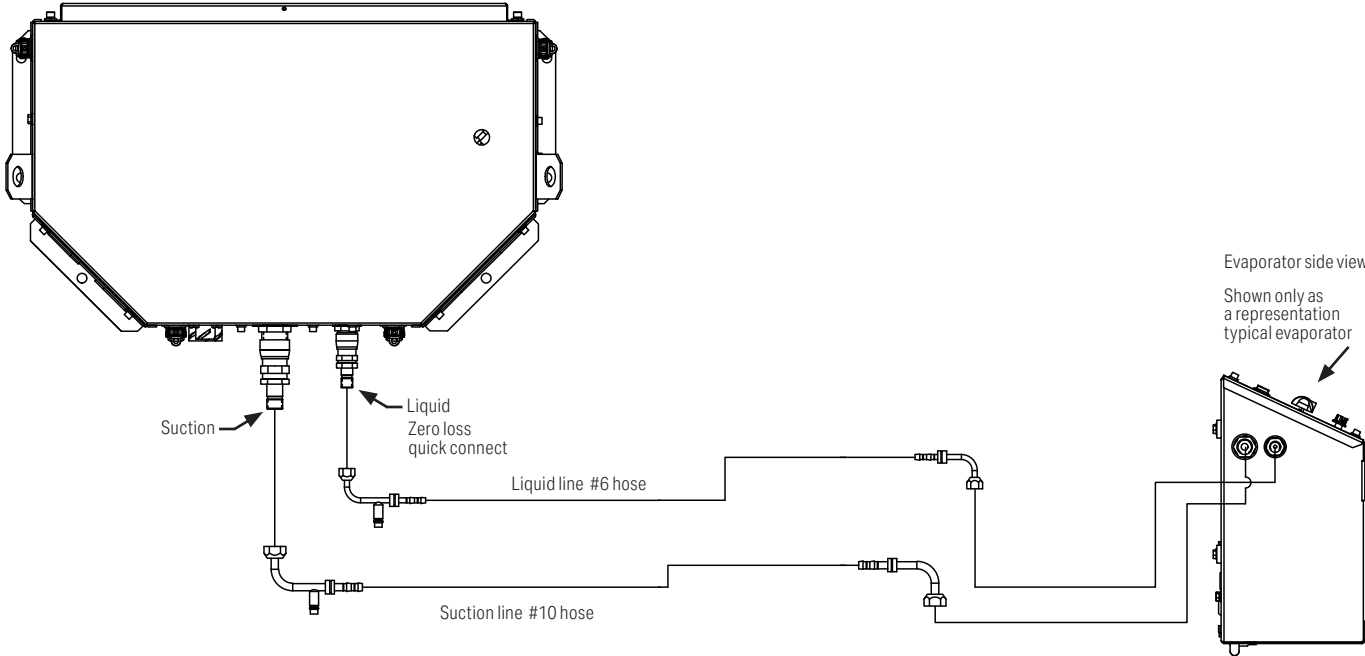
A variety of kits are available to make installation quick and easy for many popular mining machines, including pre-engineered roof racks that are ROPS/FOPS friendly.

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

RMX electric condensing unit

Optional disconnect box Includes breaker

#8 & #12 Zero-loss connection points for refrigerant

Clutch cable (in typical kit)

Power cables (in typical kit)
24 VDC+ Red wire
24 VDC- Black wire

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)

24 VDC+, Red wire

24 VDC-, Black wire

Disconnect switch

Breaker

24 VDC Truck battery



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