M SERIES RANGE













HEAVY & SEVERE-DUTY RANGE

The Sigma 'M' Series heavy-duty industrial mains powered air conditioners have been designed to provide controlled space conditions for crane operator cabins, control rooms, switch rooms and other applications where heavy to severe shock loads, vibration and dust laden corrosive environments are experienced and the applications require a high cooling and heating capacity.

- MPV5 Horizontal Rooftop Packaged
- MPW5 Wall Mount Packaged
- MPF6MX10 Floor Mounted Upright Packaged
- MPR7 Rooftop Packaged
- MPR9 Rooftop Packaged
- MPR20 Rooftop Packaged
- MPR25 Rooftop Packaged

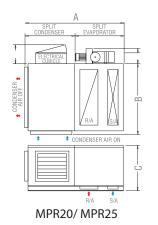


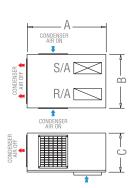
BENEFITS

- World class after sales technical and service support
- High ambient operation (up to 65°C)
- Welded stainless steel construction designed for high vibration and corrosive environments
- Stainless steel washable return air filters (on selected models)
- High quality componentry suitable for severe environments
- Heavy-duty wide finned heat exchangers
- Standard stage filtration for cabin pressurisation
- Thermal overload circuit breakers on all motors
- Designed to meet all mining design standards
- Common components throughout the range
- Hinged access and louvered covers retained by catches
- TX Valve control and system isolation valves (on selected models)

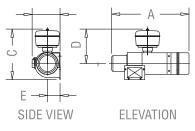
OPTIONS

- All mining grade installation components
- Complete system design solutions
- Air purification and high efficiency filtration systems
- Chemical filtration
- Additional corrosion protection
- Self cleaning pre-cleaners
- R124 Refrigerant for high ambient (on selected models)
- H13 HEPA Fresh air filter to suit EB9P4X, FVV80 & FVV100MR1

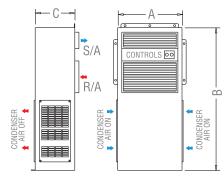




MPV5MX2 + MKRP3 Rooftop Package Unit

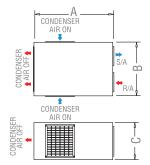


FVV80 / FVV100M1 Pressurisers



MPF6 Wall Mount Package System

Ω.



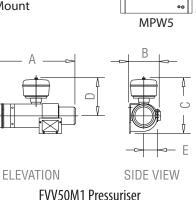
MPR7

CONDEN:

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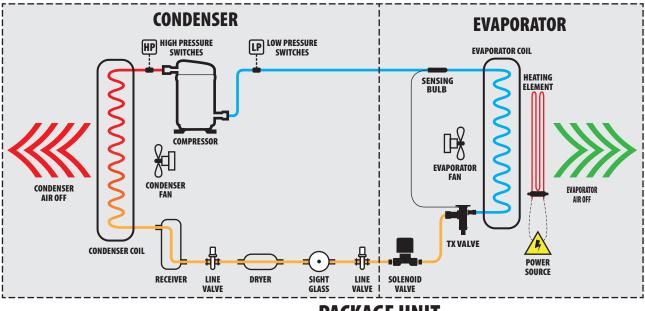
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MPV5MX2 + MKWP1 Wall Mount Package Unit



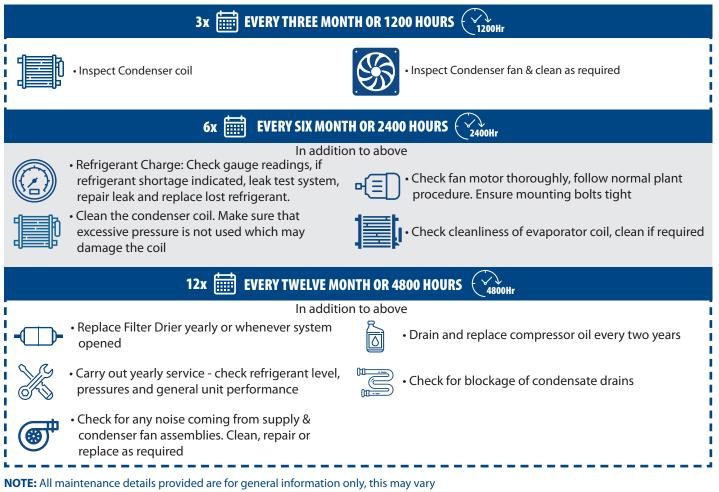


REFRIGERATION SCHEMATICS



PACKAGE UNIT

GENERAL MAINTENANCE SCHEDULE



according to the specific equipment/options. Contact SIGMA for more information.



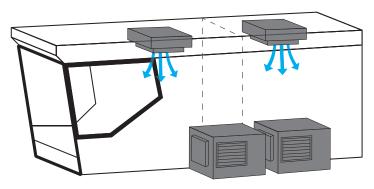
PRODUCT RANGE

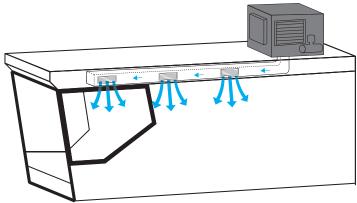
| Model No. | MPV5 | MPW5MX1 | MPF6MX10 | MPR7 | MPR9 | MPR20 | MPR25 |
|----------------------------|--------------------------------|--|--|--|--|--|---------------------------------------|
| Description | Horizontal Rooftop Packaged | Wall Mount Packaged with Heating | Wall Mount Packaged with Heating | Rooftop Packaged HVAC with Heating | Rooftop Packaged HVAC with Heating | Rooftop Packaged HVAC with Heating | Rooftop Packaged HVAC with Heating |
| Cooling | 5.0 kW 17060 BTU | 5.0 kW 17060 BTU | 6.0 kW 20472 BTU | 7.0 kW 23884 BTU | 10.0 kW 34120 BTU | 20.0 kW 68240 BTU | 25.0 kW 85300 BTU |
| Heating Capacity | 3.0 kW 10236 BTU | 3.0 kW 10236 BTU | 3.0 kW 10236 BTU | 3.0 kW 10236 BTU | 12.0 kW 40944 BTU | 9.0 kW 30708 BTU | 9.0 kW 30708 BTU |
| Fan Speeds | 3 | 3 | 3 | 2 | 2 (man. control) / 3 (elec. control) | 2 | 2 |
| Air Flow | 190 l/s 403 CFM | 200 l/s 424 CFM | 300 l/s 636 CFM | 320 l/s 678 CFM | 610 l/s 1293 CFM | 900 l/s 1907 CFM | 900 l/s 1907 CFM |
| Fresh Air | *50 l/s 106 CFM | *30 l/s 64 CFM | *50 l/s 106 CFM | 80 l/s 170 CFM | *30 l/s 47 CFM | 100 l/s 212 CFM | 100 l/s 212 CFM |
| Power Supply | 415 VAC 3Phase- 50Hz | 415 VAC 3Phase- 50Hz | 415 VAC 50Hz | 415 VAC 3Phase- 50Hz | 415 / 460 VAC 3Phase-50/60Hz | 415 VAC 3Phase- 50Hz | 415 VAC 3Phase- 50Hz |
| Current Draw | 10 A | 17 A | 12 A | 12 A | 30 A | 33 A | 33 A |
| Refrigerant | R134a | R134a | R134a | R134a | R134a | R134a | R134a |
| Minimum Ambient | **6°C | **6°C | **6°C | **6°C | -10°C | **6°C | **6°C |
| Temperature | 42.8°F | 42.8°F | 42.8°F | 42.8°F | 14°F | 42.8°F | 42.8°F |
| Maximum | 54°C | 54°C | 54°C | 54°C | 54°C | 54°C | 54°C |
| Ambient Temperature | 129°F | 129°F | 129°F | 129°F | 129°F | 129°F | 129°F |
| Weight (nominal) | 150.0 kg 330.0 lbs | 160.0 kg 353.0 lbs | 295.0 kg 649.0 lbs | 454.0 kg 998.8 lbs | 457.0 kg 1005.4 lbs | 760.0 kg 1672.0 lbs | 760.0 kg 1672.0 lbs |
| Dimension (L x W x H) | 1000mm x 680mm x 495mm | 696mm x 665mm x 969mm | 1512mm x 1145mm x 970mm | 1490mm x 1250mm x 665mm | 1512mm x 1145mm x 980mm | 1920mm x 1670mm x 895mm | 1920mm x 1670mm x 895mm |
| (L x W x H) (A x B x C) | 39.4in x 26.8in x 19.5in | 27.4in x 26.2in x 38.1in | 59.5in x 45.1in x 38.2in | 58.7in x 49.2in x 26.2in | 59.5in x 45.1in x 28.6in | 75.6in x 65.7in x 35.2in | 75.6in x 65.7in x 35.2in |

*Optional, MRP9 can have other pressuriser options

** with heating option selected -10°C / 14°F

TYPICAL SYSTEM SETUP





SPLIT TYPE ROOF MOUNTED EVAPORATORS WITH DECK MOUNTED CONDENSER

ROOF MOUNTED PACKAGE

ALWAYS USE GENUINE SIGMA AUTHORISED PARTS ONLY



FOR MORE INFORMATION

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