M Series

BES has been designing and manufacturing main powered selfcontained electric air conditioning equipment for over 30 years. Combining new technology with proven rugged design makes this equipment suitable on any mining or heavy industrial application.

Standard features include:

Heavy gauge stainless steel construction

Ease of service with over-center door catches

Hinged covers with gas struts for quick access

Industrial quality construction and componentry

Wide fin pitch to reduce coil clogging

Large heat exchangers for high ambient temps

Capacity controls to enhance operation over a wide temperature range

Electronic temperature controls to provide precise control in any environment

Flexibility in mounting hardware to enable several configurations with the same unit

Uses environmentally friendly refrigerant 134a

Available Power Options:

208-230/1/60

200-230/3/60

200-220/3/50

380-415/3/50

460/3/60

460/3/50

575/3/60

A variety of control voltages also available

Special Options:

Coated Coils

Alternative High Ambient Refrigerants

Inverter Operation







MPV9



384

3

BERGSTROM ELECTRIFIED

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BES designed this system for the smaller cab of mining and industrial equipment. Installation is very easy and the designer can select from either rooftop with base supply and return openings, or mount on an adjacent deck and duct through the front face. Return air can be drawn from both openings while the supply is limited to a single outlet.

Standard features include:

Numerous voltages available

Quiet and efficient scroll compressors

Two stage electric heat

Positive fan forced pressurization

Sealed electrical cubicle

5 stage elcetronic thermostat with remote control for operator comfort

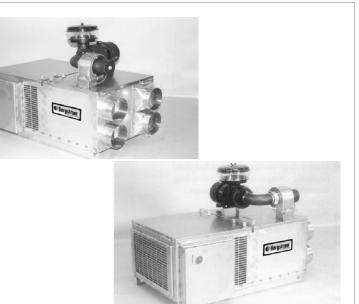
Compatible with new automatic cleaning pressurizer

Technical Specifications:				
Model	MPV5			
Cooling Capacity	18,000 btu/hr	5.2 kw		
Heating Capacity	34,000 btu/hr	10.0 kw		
Heating Stages	two			
Airflow - High Speed	600 cfm	280 l/s		
Airflow - Low Speed	500 cfm	240 l/s		
Weight	540 lbs	245 kg		
Compressor Type	scroll			
Number of Cylinders	n/a			
Pressurization	120 cfm	56 l/s		
Controls	110 VAC			
Motor Protection	Circuit Breaker			
	Thermal Overload			
Compr. Capacity Control	none			
Condenser Fan	1 speed			
Refrigerant Metering	TXV			
Thermostat-Electronic 5 Stage	Standard			

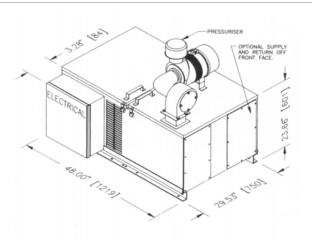
Rating Conditions: Cooling Capacity - Indoor 80°F DB/67°F WB with Outdoor 110°F DB/60°F WB

Heating Capacity @ Rated Voltage

For capacities at ARI Std. 210 conditions of cooling capacity, with Indoor 80°F DB/67°F WB and Outdoor 95°F DB/75°F WB add approximately 7.5% to rated capacity.







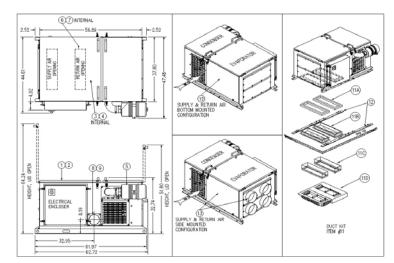


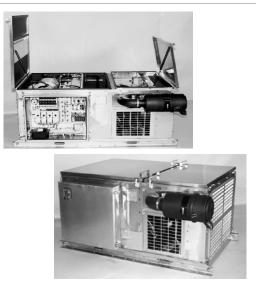
M Series

BES has listened to the market and refined the previous MPV8 to make it the system of choice for OEM's on new or rebuilt machinery, and users on retrofit programs. This is a very new model and incorporates many features which make it ideal for heavy duty applications.

Standard features include:

- Triple gasketed evaporator cover to eliminate dust and water ingress
- Positively pressurized electrical cubicle to keep dust and water out
- · Very easy to service and keep clean
- Quiet operation with large scroll compressor
- Higher capacity to handle increased cooling and heating loads due to increases in amounts of pressurization air
- Pressurizer intake is from condenser fan discharge, so no pre-cleaner is required (which usually fills up with snow and water)
- 5 stage electronic thermostat with remote control to allow the operator precise control of comfort level
- Compatible with new automatic cleaning pressurizers
- Head pressure control for operation in cooler climates without sacrificing performance in hot locations
- System can be configured to have supply and return air out the front face for those applications where rooftop just won't work
- MPV9 mounts to exact same footprint as MPV8





MPV9

Technical Specifications:				
Model	MPV9			
Cooling Capacity	31,000 btu/hr	8.9 kw		
Heating Capacity	41,000 btu/hr	12.0 kw		
Heating Stages	two			
Airflow - High Speed	1300 cfm	610 l/s		
Airflow - Low Speed	870 cfm	410 l/s		
Weight	1300 lbs	590 kg		
Compressor Type	scroll			
Number of Cylinders	n/a			
Pressurization	120 cfm	56 l/s		
Controls	110 VAC			
Motor Protection	Circuit Breaker			
	Thermal Overload			
Compr. Capacity Control	none			
Condenser Fan	1 speed			
Refrigerant Metering	TXV			
Thermostat-Electronic 5 Stage	Standard			



Product Data & Specifications

Technical Specifications:							
Model	MPV5		MPV9				
Cooling Capacity	18,000 btu/hr	5.2 kw	31,000 btu/hr	8.9 kw			
Heating Capacity	34,000 btu/hr	10.0 kw	41,000 btu/hr	12.0 kw			
Heating Stages	two		two				
Airflow - High Speed	600 cfm	280 l/s	1300 cfm	610 l/s			
Airflow - Low Speed	500 cfm	240 l/s	870 cfm	410 l/s			
Weight	540 lbs	245 kg	1300 lbs	590 kg			
Compressor Type	scroll		scroll				
Number of Cylinders	n/a		n/a				
Pressurization	120 cfm	56 l/s	120 cfm	56 l/s			
Controls	110 VAC		110 VAC				
Motor Protection	Circuit Breaker		Circuit Breaker				
	Thermal Overload		Thermal Overload				
Compr. Capacity Control	none		none				
Condenser Fan	1 speed		1 speed				
Refrigerant Metering	TXV		TXV				
Thermostat-Electronic 5 Stage	Standard		Standard				

Rating Conditions: Cooling Capacity - Indoor 80°F DB/67°F WB with Outdoor 110°F DB/60°F WB

Heating Capacity @ Rated Voltage

For capacities at ARI Std. 210 conditions of cooling capacity, with Indoor $80^{\circ}F$ DB/67°F WB and Outdoor $95^{\circ}F$ DB/75°F WB add approximately 7.5% to rated capacity.

Above Spec based on 460/30/60 versions heating and coling, capacities may vary depending on supplied voltage.