Precision Air Conditioning
for Business Critical

DataMate 3000

EMERSON
Network Power

Small size with Constant Temperature and Humidity function ——DataMate3000

High efficiency cooling system

High air flow-rates and efficient heat exchanger design provide the high sensible heat ratios required by equipment rooms. Energy efficiency is also maximized by the use of Copeland's advanced scroll compression technology, high efficiency copper-tube aluminum-fin heat exchangers and an advanced software control enable energy savings of 20-30% compared to "Comfort" air conditioners, operating in the same environment.

Extra-wide input voltage range

The Datamate3000 has been specifically designed to handle a very wide variation on mains voltage. It is simply out performances any other system available. For example it will operate at ± 25% of nominal voltage, detect a phase loss, detect a change in phase rotation, auto-start when all phases are restored and automatically change phase rotation to ensure motors run in the correct direction.

High reliability and flexibility

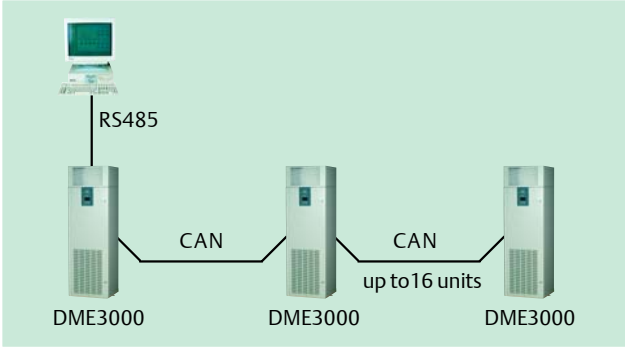
Only the highest quality components have been used in the system, each having passed rigorous reliability test standards. The system is capable of operating 365 days a year and 24 hours per day. The unit can run in with outside temperatures as low as -34℃, using Emerson's patented Lee-temp system developed for operation in extreme environments. Operation in temperatures up to 45℃ make the unit suitable for all climates. Multiple units can be connected together using a flexible master-slave system. This maximizes the life of each unit and provides maximum protection for the equipment operator.

Advanced intelligent control technology

The heart of the control system is a micro-computer using the latest software developed by Emerson's 40 years in the business of Precision Air Conditioning. Some features include; a large 128 × 64 character blue backlit LCD screen, multi-level password protection to avoid unauthorized-operation, easy setting of key parameters via the keypad, display of operation status, expert fault-diagnosis function, run time hours for all major components, auto protection of parameters and alarm log that saves the last 30 alarms, even after a power failure.

Powerful network management function

The Datamate uses a RS485 port that offers standard communication protocol. Some functions include, convenient remote-shutdown and management function, as well as functions of remote alarm, query, fault-handling and silencing the audible alarms.



Easy installation and maintenance

The refrigeration system is factory charged and requires no field brazing, evacuation or charging. Service is from the front of the unit, enabling routine maintenance and service to be performed quickly and easily.

DataMate3000 50Hz Specification

Model No.	DME07M	DME012M
Cooling Capacity (24°C, 50%rH)		
Total	7.54kW (6485 kcal/h)	12.56kW (10802 kcal/h)
Sensible	6.80kW (5848 kcal/h)	11.32kW (19735 kcal/h)
SHR	0.9	0.9
Fan section		
Air volume-High(m3/h)	2250	2700
Compressor section		
High pressure protection (MPa)	2.8	2.8
Low pressure protection (MPa)	0.14	0.14
Electrical protection section		
High voltage protection (V)	475	475
High voltage protection (V)	285	285
Phase loss protection	OK	OK
Phase-rotation protection	OK	OK
Reheat and humidifier section (options)		
Reheat capacity (kW)	4	4
Humidity capacity (kg/h)	4.5	4.5
Power supply (*FLA: Full Load Amps)		
Cooling only	7.2	11.5
Cooling with reheat	25.2	29.5
With reheat and humidifier	34.2	38.5
Dimension and Weight		
Indoor unit	**DME07M**	**DME12M**
Dimension (mm) Width	600	600
Depth	550	550
Height	1900	1900
Weight (kg)	140	150
Outdoor unit (condenser)	**DMC07W**	**DMC12W**
Dimension (mm) Width	702	702
Depth	408	408
Height	626	1239
Weight(kg)	34	58
Connection Size(mm)	1/2" 3/8"	5/8" 1/2"

DataMate 3000 Series of Air Conditioner is designed by Emerson Network Power Co., Ltd for Small Equipment-Room based on more than 40-year development experiences. It has 7.5kW and 12.5kW products with multi-cooling capacities and multi configurations.

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