M2E series 125~250

REFRIGERATION **COMPRESSED AIR DRYER**

mindman

Design condition

A. Working pressure: 0.7MPa	0.4	0.5	0.6	0.7	0.8	0.9	1.0
Correction factor	0.63	0.75	0.87	1.00	1.06	1.12	1.17
B. Dew point : 10℃	2	5	> 10				
Correction factor	0.65	0.85	1.00				
C. Power source frequency: 60Hz	50	60					
Correction factor	0.83	1.00					
D. Ambient temperature: 38℃	42	40	< 38				
Correction factor	0.90	0.95	1.00				
E. Inlet temperature: 60℃	80	70	< 60				
Correction factor	0.88	0.94	1.00				

Formula

- Actual capacity =

  M2E capacity × （A×B×C×D×E)

- Corrected capacity =

  Demanded capacity ÷ （A×B×C×D×E)

Specification

Model	M2E-125S	M2E-150S	M2E-175S	M2E-200S	M2E-250S
Max. capacity (Nm^3/min)	18	22	27	30	36
Connection (inch)	3"FL	3"FL	3"FL	3"FL	4"FL
Power supply	3φ/380V(220V.440V Optional)				
Ref. comp. (Kw)	3.6	4.2	4.7	6.5	7.0
Operating current (A)	5.0	6.4	7.6	9.8	10.2
Full-load current (A)	5.7	7.3	8.6	11.0	12.2
Refrigerant	R-407C (R22、R404A、R134a Optional)				
Fan motor (W)	600	600	600	600	250×2
Dimension	W:780 L:1280 H:1420				W:950 L:1800 H:1600
Net weight (kg) N Type	270	280	290	300	400
Net weight (kg) G Type	300	310	320	330	400
Operating scope	■ Inlet temp.：N type 5~50℃（@40℃） G type 5~80℃（@60℃） ■ Cooling water volume：N type 100 × capacity (L/hr) G type 250 × capacity (L/hr)				■ Ambient temp.：2~42℃（@38℃） ■ Working pressure：＜1.0 MPa (@0.7 MPa) ■ Dew point： 2~10℃（@10℃） ■ Cooling water pressure：0.2~0.4 MPa ■ Cooling water temp.：5~40℃(@32℃)
Remarks	■ Design condition@60Hz： 1.Ref. comp.(kw)：@ET10℃、CT54℃ 2.Operating current (A)：@ET5℃、CT45℃ 3.Full-load current (A)：@ET10℃、CT54℃				
Optional specifications	■ Normal inlet temp. (Without pre-cooler) N type ex:M2E-150SN ■ High inlet temp. (With pre-cooler) G type ex:M2E-150SG ■ Stainless steel pressure vessel (Except condenser & cooler) P type ex:M2E-150SGP ■ Water cooled W type ex:M2E-150SNW ■ PLC control panel PLC type ex:M2E-150SG-PLC ■ High pressure type (Except high inlet temp.) H type ex:M2E-150SNH(1.1~5.0 Mpa) ■ Accessories: Inlet/Outlet pressure gauge, dew point meter, electric auto drain, flow meter. etc				

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Features

1.Control panel

- Logic controller, complete auto functioning and standard wiring.
- Complete automatic, no adjustment is required.

2.Fan motor

- Axial fan motor low noise, high speed, large flow and static pressure. CE certified, IP54.

3.Condenser & cooler

- Condenser and pre-cooler 2 in 1 design with same fan motor.
- With filter strainer prevent oil vapor on fins, easy maintenance.

4.Pressure control

- Pre-set type pressure switch (HPS & LPS) is used for better stability and fewer malfunctioning .
- Reset type high/low pressure trip switch (HPSM/LPSM) is prevent compressor from overloading.

5.Heat exchanger

- Thread type bronze tubes with aluminum fins and diversion plate plus reversed-channel design makes better cooling efficiency, higher outlet air temperature and lower energy consumption.

6.Evaporator

- Direct type, air and refrigerant contact completed the best water removal efficiency.

7.Drainage system

- External zero lose drain trap with manual drain easy maintenance.
- With water collector under refrigerant compressor collects condensing water.

8.Refrigeration compressor

- Hermetic, scroll type, high performance and efficiency.
- CE certified. Class F, IP 53.

9.Pressure vessel

- Compact TWO-IN-ONE design: air-to-air heat exchanger combined with evaporator.
- CNS manufacturing standard; CE, SME, CSQL, standard upon request.

10.Special features

- Epoxy coating aluminum fins. Chemical composition: Si, Fe, Cu, Mn, Zn.
- No more heat-transfer problem. Several units can be installed side by side.