

M2E-S series 08, 10

REFRIGERATION COMPRESSED AIR DRYER



Specification

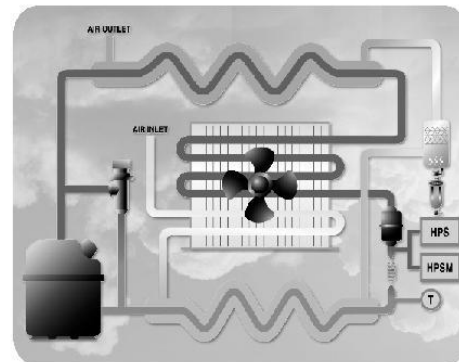
Model	M2E-08SG	M2E-10SG
Max. capacity (Nm ³ /min)	0.8	1.2
Connection (Inch)	1/2"Rc	3/4"Rc
Power supply (60Hz)	220V/1 φ	
Ref. comp. (kw)	0.28	0.5
Operating current (A)	1.2	2.4
Full-load current (A)	1.5	2.75
Refrigerant	R134a	
Fan motor (W)	55	
Dimension (mm)	H 475×W 210×L 600	
Net weight (kg)	21	23

Design condition

Working pressure: 0.7MPa	0.4	0.5	0.6	0.7	0.8	0.9	1.0
A. Correction factor	0.83	0.75	0.87	1.00	1.06	1.12	1.17
Dew point : 10°C	2	5	> 10				
B. Correction factor	0.65	0.85	1.00				
Power source frequency : 60Hz	50	80					
C. Correction factor	0.83	1.00					
Ambient temperature: 38°C	42	40	< 38				
D. Correction factor	0.90	0.95	1.00				
Inlet temperature: 50°C	80	55	< 50				
E. Correction factor	0.88	0.94	1.00				

Features

- Tube in tube heat exchanger.
- High inlet temperature type.
- Condenser and pre-cooler with one fan motor, save space, lower energy consumption.
- Epoxy coating aluminum fin, anti-corrosion.
- Multi-layer moisture separator, efficiency>99%, dew point 2~10°C.
- Pressure drop under 0.025 MPa, energy saving; Re-warm design avoid to bring dew at air outlet.
- HFC-134a refrigerant, with hot gas by-pass valve, avoid low load causes liquid compressed.
- High pressure trip switch, protect refrigerant compressor over load and burn out. (optional)
- Evaporating temperature gauge refer to dew point. (optional)
- External auto drain connection. (optional)



Operating scope

Inlet temperature : High Inlet 5~80°C (@50°C).
 Ambient temperature : 2~42°C (@38°C).
 Working pressure : ≤1.6MPa (@0.7MPa).
 Dew point : 2~10°C (@10°C).

Remarks

- Design condition @60Hz :
 1. Ref. comp.(kw) : @ET10°C, CT54°C.
 2. Operating current (A) : @ET5°C, CT45°C.
 3. Full-load current (A) : @ET10°C, CT54°C.

Optional accessories

- Evaporating gauge Indicated-T. Ex: M2E-08SG-T
- High pressure trip switch Indicated-HPP. Ex: M2E-08SG-HPP

Formula

- Actual capacity =

$$\text{M2E-SG capacity} \times (A \times B \times C \times D \times E)$$
- Corrected capacity =

$$\text{Demanded capacity} \div (A \times B \times C \times D \times E)$$