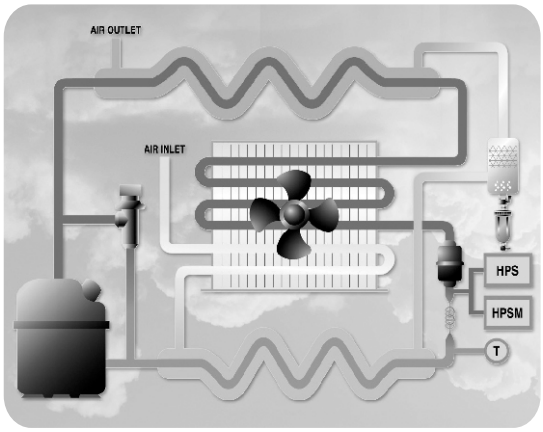
M2E-S series 08, 10

REFRIGERATION **COMPRESSED AIR DRYER**

mindman

Features

- Tube in tube heat exchanger.
- High inlet temperature type.
- Condenser and pre-cooler with one fan motor, save space, lower energy consumption.
- Expoxy coating aluminum fin, anti-corrison.
- Multi-layer moisture sperator, efficiency>99%, dew point 2~10℃.
- 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 liqid compressed.
- High pressure trip switch, protect refrigerant compressor over load and burn out. (optional)
- Evaparoting temperature gauge refer to dew point. (optional)
- External auto drain connection. (optional)



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)	0.26	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

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:50℃	60	55	< 50				
Correction factor	0.88	0.94	1.00				

Operating scope

Inlet temperature : High inlet 5~60℃(@50℃).
Ambient temperature : 2~42℃(@38℃).
Working pressure : ≦1.6MPa (@0.7MPa).
Dew point : 2~10℃ (@10℃).

Remarks

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

Optional accessories

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

Formula

- Actual capacity =
  M2E-SG capacity × (A×B×C×D×E)
- Corrected capacity =
  Demanded capacity ÷ (A×B×C×D×E)