

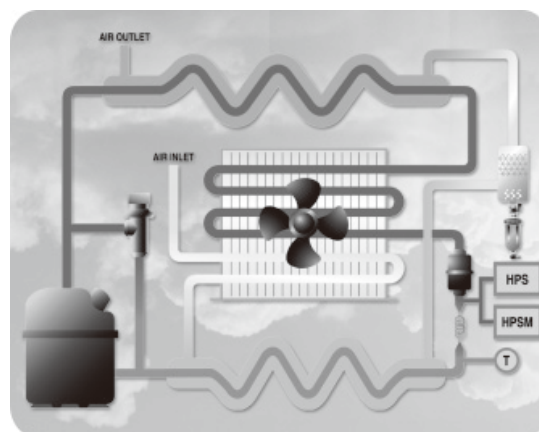


### Features

- 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)

### Specification

Model	M2E-08SG	M2E-10SG
Max. capacity (Nm <sup>3</sup> /min)	0.8	1.2
Connection (inch)	Rc1/2"	Rc3/4"
Power supply (60Hz)	220V/1ø	
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



### Operating scope

Inlet temperature : High inlet 5~60°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 =  
M2E-SG capacity × (A×B×C×D×E)
- Corrected capacity =  
Demanded capacity ÷ (A×B×C×D×E)

### 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°C	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°C	42	40	< 38				
Correction factor	0.90	0.95	1.00				
E. Inlet temperature: 50°C	60	55	< 50				
Correction factor	0.88	0.94	1.00				