M2E series 08~100

REFRIGERATION COMPRESSED AIR DRYER





Specification:

Type	M2E 08G	M2E 10GP	M2E 15GP	M2E 25GP	M2E 40GP	M2E 60GP	M2E 75GP	M2E 100GP			
Max. capacity(Nm³/min)	0.8	1.2	2.4	3.6	5.5	8.1	10.6	15			
Connection(inch)	1/2"PT	3/4"PT	1"PT	1"PT	1-1/2"PT	1-1/2"PT	2"PT	2"PT			
Power supply (50/60Hz)	220V/1 φ						220V/3 φ				
Ref. comp.(kw)	0.25	0.5	0.65	0.95	1.2	1.9	2.6	2.6			
Operating current(A)	1.29	2.4	3	4.3	5	7.5	3.5	3.5			
Full-load current(A)	1.5	2.75	3.35	4.9	5.7	8.7	4	4			
Refrigerant	R134a				R-22						
Fan motor(W)	42	60	60	60	180	250	400	400			
H Dimension L (mm) W	480 490 380	735 500 380	775 600 380	775 600 380	960 700 500	960 700 500	1050 1020 540	1050 1020 540			
Net weight(kg)	27	40	50	54	83	93	127	173			

Design condition:

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

Features:

- ●The "FAN-UP" plus "TWO-IN-ONE" air-cooled precooler & condenser make better result in ventilation. Compact, state-of-the-art. (Screen mesh for precooler & condenser optional.)
- "TWO-IN-ONE" heat exchanger & evaporator plus multi-stage stainless steel water separator provide 99% water separation and 2~10 P.D.P., meets first compressed air quality class of ISO 8573.1.
- Manual Electronic auto drain valve with screen mesh keeps you free from daily maintenance.
- Compact SCS mircoprocessor details the operation of dryer.
- Stainless steel air-side piping or high essure models optional.
- 0.02MPa pressure drop helps energy saving.
- Reheating Reversed air flow and Sub-Cooling design completely increase the cooling capacity by 20%.
- Environmental friendly refrigerant R-134 a partially adopted.

Operating scope:

Inlet temperature : 5~80°C(@60°C). Ambient temperature : $2\sim42^{\circ}C(@38^{\circ}C)$. Working pressure : ≦1.0MPa (@0.7MPa).

Dew point : 2~10°C (@10°C).

Remarks:

• Design condition @60Hz:

1.Ref. comp.(Kw): @ET10°C, CT54°C. 3.Full-load current (A): @ET10°C, CT54°C.

 Max.working pressure 1.0 MPa, high pressure available. H₁(1.1~2.0MPa) Designate NH₁P. Ex. M2E-15NH₁P. H₂(2.1~3.0MPa) Designate NH₂P. Ex. M2E-15NH₂P. $H_3(3.1\sim4.0MPa)$ Designate NH_3P . Ex. $M2E-15NH_3P$. $H_4(4.1\sim5.0MPa)$ Designate NH_4P . Ex. $M2E-15NH_4P$. PS: High pressure inlet temperature @42°C.

• M2E-08G differs from other models in design without explanation.

Formula:

1.0

1.17

Actual capacity =

M2E capacity \times (A×B×C×D×E)

Corrected capacity =

Demanded capacity \div (A×B×C×D×E)

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Features:

1.Control panel:

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

2.Pre-cooler:

- Combined with air-to-refrigerant condenser by a heat insulation area. Compact of high technology.
- Excellent inlet air distribution results in high performance and Driven by motor, no more coil burnt down concern. low pressure drop.

3. Pressure control:

- Pre-set type pressure switch (HPS&LPS) is used for better stability and fewer malfunctioning.
- Reset type high pressure switch (HPSM) is specially designed for models larger than M2E-75 to prevent compressor from overloading.

4. Refrigeration compressor:

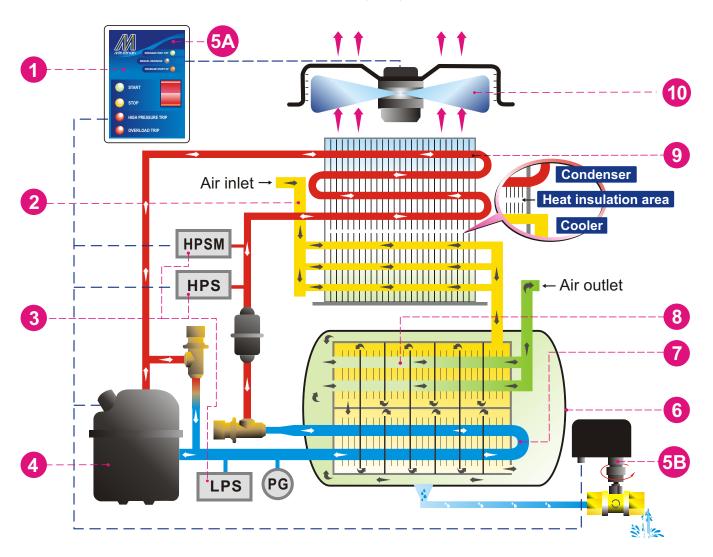
- Hermetic, High performance and efficiency.
- CE Certified.
- Class F, IP53.

5. Electronic drainage:

- Timer control with manual drain test.
- Anti-blockage by a large ball valve.

6. Pressure vessel:

- Stainless steel pressure vessel, antirust and life extend.
- Compact TWO-IN-ONE design: Air-to-air heat exchanger combined with evaporator.
- Leak test by high precision instrument, leakage free is guaranteed.
- CNS manufacturing standard; CE, ASME, CSQL standard upon request.



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7. Evaporator:

 Wave type aluminum fins with diversion plate increases the contact surface of air and refrigerant. The lower by-pass and higher cooling efficiency is easy to achieve.

8. 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.

9.Condenser:

• Large air intake area and Blow-Up design is greatly helpful for better heat rejection and good ventilation.

10.Fan motor:

- Low noise, high speed, large flow and static pressure.
- ◆ CE Certified, IP54.

Application:

