

M2E series 300~1500

REFRIGERATION COMPRESSED AIR DRYER



Design condition

A. Working pressure	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	2	5	> 10				
Correction factor	0.65	0.85	1.00				
C. Power source frequency	50	60					
Correction factor	0.83	1.00					
D. Ambient temperature	42	40	< 38				
Correction factor	0.90	0.95	1.00				
E. Inlet temperature (N)	50	45	< 40	※ (N) : Standard			
Correction factor	0.90	0.95	1.00	(G) : High temperature			
E. Inlet temperature (G)	80	70	< 60				
Correction factor	0.88	0.94	1.00				

Formula

◎ Actual capacity =

$$\text{M2E capacity} \times (A \times B \times C \times D \times E)$$

◎ Actual capacity =

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

Specification

Model	M2E-300S	M2E-350S	M2E-400S	M2E-500S	M2E-600S	M2E-700S	M2E-800S	M2E-900S	M2E-1000S	M2E-1250S	M2E-1500S	
Max capacity (Nm ³ /min)	43	50	61	72	79	93	116	125	134	155	180	
Connection (inch)	4"FL	4"FL	4"FL	5"FL	5"FL	6"FL	6"FL	6"FL	8"FL	8"FL	8"FL	
Power supply (60Hz)	3 φ 380V (220V · 440V Optional)											
Power (Kw)	6.3	7.0	9.3	11.0	12.5	13.5	16.9	21.9	21.9	27.4	27.4	
Operating current (A)	7.7	8.5	13.7	15.4	17.5	18.4	26.1	28.3	28.3	36.6	36.6	
Full load current (A)	10.6	11.9	17.1	19.8	22.7	23.2	32.2	37.2	37.2	47.4	47.4	
Refrigerant	R-407C (R22 · R404A · R134a Optional)											
Condenser (RT)	7.5	7.5	10	12.5	12.5	15	20	20	20	25	30	
Standard (N)	Dimensions (mm)	H:1670 W:2300 L:720			H:1750 W:2450 L:850			H:1900 W:2500 L:1100			H:2100 W:2650 L:1250	
	Weight (kg)	500	530	600	750	830	920	1120	1300	1500	1900	2100
High temp. (G)	Dimensions (mm)	H:1670 W:2700 L:720			H:1750 W:2750 L:850			H:1900 W:2900 L:1100			H:2100 W:2950 L:1250	
	Weight (kg)	600	630	700	880	960	1050	1300	1480	1700	2100	2350
Operating conditions	<ul style="list-style-type: none"> ■ Inlet temperature : Type N : 5~50°C (@40°C) <li style="padding-left: 20px;">Type G : 5~80°C (@60°C) ■ Cooling water flow : Type N : 100 × max capacity (L/hr) <li style="padding-left: 20px;">Type G : 250 × max capacity (L/hr) ■ Ambient temperature : 2~42°C (@38°C) ■ Working pressure : ≤ 1.0 MPa (@0.7 MPa) ■ Water pressure : 0.2~0.4 MPa ■ Water temperature : 5~40°C (@32°C) ■ Dew point : 2~10°C (@10°C) 											
Remarks	1. Ref comp (Kw) : @ET10°C · CT54°C ■ Design conditions @60Hz : 2. Operating current (A) : @ET5°C · CT38°C 3. Full load current (A) : @ET10°C · CT54°C											
Other options	<ul style="list-style-type: none"> ■ Standard inlet temperature (without pre cooler) Type N Example : M2E-300SN ■ High inlet temperature (with pre cooler) Type G Example : M2E-300SG ■ Stainless steel pressure vessel (except condenser & cooler) Type P Example : M2E-300SNP ■ Air cooled condenser Type A Example : M2E-300SNA ■ PLC control panel Type PLC Example : M2E-300SN-PLC ■ Accessories : Inlet/outlet pressure gauge, dew point meter, electrical expansion valve, electric autodrain, flow meter, etc 											