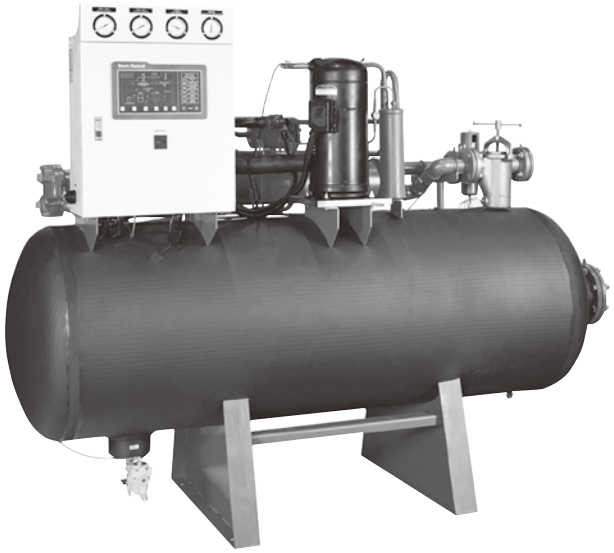
M2E series 300~1500

REFRIGERATION COMPRESSED AIR DRYER

mindman



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 (N)	50	45	< 40				
Correction factor	0.90	0.95	1.00				
E. Inlet temperature (G)	80	70	< 60				
Correction factor	0.88	0.94	1.00				

- (N) : Standard
- (G) : High temperature

Formula

- Actual capacity =
  M2E capacity × (A×B×C×D×E)
- Corrected capacity =
  Demanded capacity ÷ (A×B×C×D×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		3ø 380V(220V, 440V Optional)										
Ref. comp. (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)	Dim. (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)	Dim. (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 scope		• Inlet temperature: N type : 5~50°C (@40°C) G type : 5~80°C (@60°C) • Cooling water flow: N type : 100 × max. capacity (L/hr) G type : 250 × max. capacity (L/hr) • Ambient temp.: 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		• Design condition@60Hz: 1. Ref. comp.(kw): @ET10°C, CT54°C 2. Operating current (A): @ET5°C: CT38°C 3. Full-load current (A): @ET10°C": CT54°C										
Optional specifications		• Standard inlet temperature (without pre cooler) — N type ex: M2E-300SN • High inlet temerature (with pre cooler) — G type ex: M2E-300SG • Stainless steel pressure vessel (except condenser& cooler) — P type ex: M2E-300SNP • Air cooled condenser — A type ex: M2E-300SNA • PLC control panel — PLC type ex: M2E-300SN-PLC • Accessories: Inlet/outlet pressure gauge, dew point meter, electrical expansion valve, electric autodrain, flow meter, etc.										

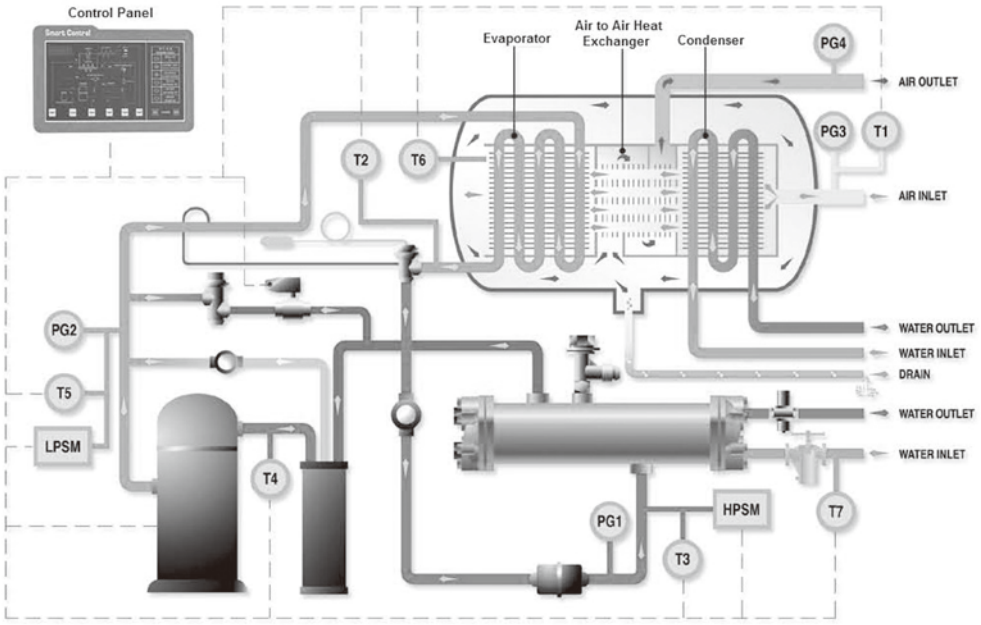
M2E Features 300~1500

REFRIGERATION **COMPRESSED AIR DRYER**

mindman

Features

1. Open & compact design - easy for maintenance, saves space.
2. Low inlet/outlet connection port - easy operation & installation.
3. Single tube design for heat exchanger with large & short tubes to reduce pressure drop (0.01 to 0.015MPa), thus saves energy.
4. 3 in 1 design with water cooled system pre-cooler + heat exchanger + evaporator. Material uses copper tubes + aluminium fins with anodizing process to prevent corrosion and increase life span.
5. Moisture separator design with large orifice to the speed of air and using gravity force to separate air & condensed water with the efficiency of 98% above. Also reduce friction generated by pressure.
6. Heat exchanger is using the design of reverse heat exchange with direct type of pre-cooler & evaporator. This is to minimize leaking & maintain better dew point.
7. Using scroll type refrigerant compressor that has advantage of lower power consumption & refrigerant R-470C to fulfill international environmental standard.
8. SCS microcomputer control system to monitor, protect, display, signal output for remote control.(PLC control optional)
9. Manual & auto drain system with zero lose drain for easy maintenance & energy saving.



Application