

REFRIGERATION COMPRESSED AIR DRYER

J2E-I SERIES



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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 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 J2E-75 to prevent compressor from overloading.

4. Refrigeration Compressor :

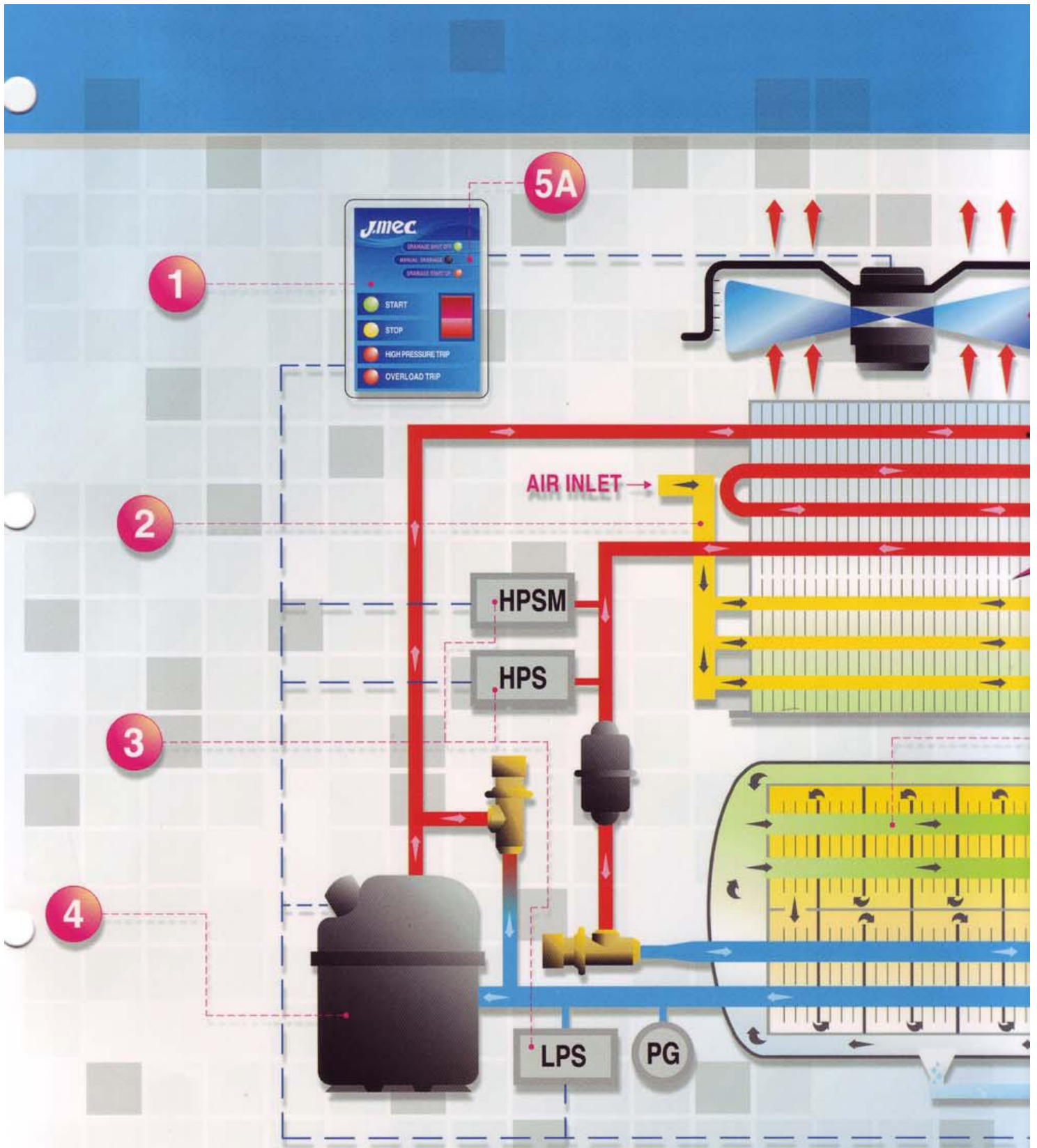
- Hermetic, High performance and efficiency.
- CE Certified.
- Class F, IP53.

5. Electronic Drainage :

- Timer control with manual drain test.
- Anti-blockage by a large ball valve.
- Driven by motor, no more coil burnt down concern.

6. Pressure Vessel :

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

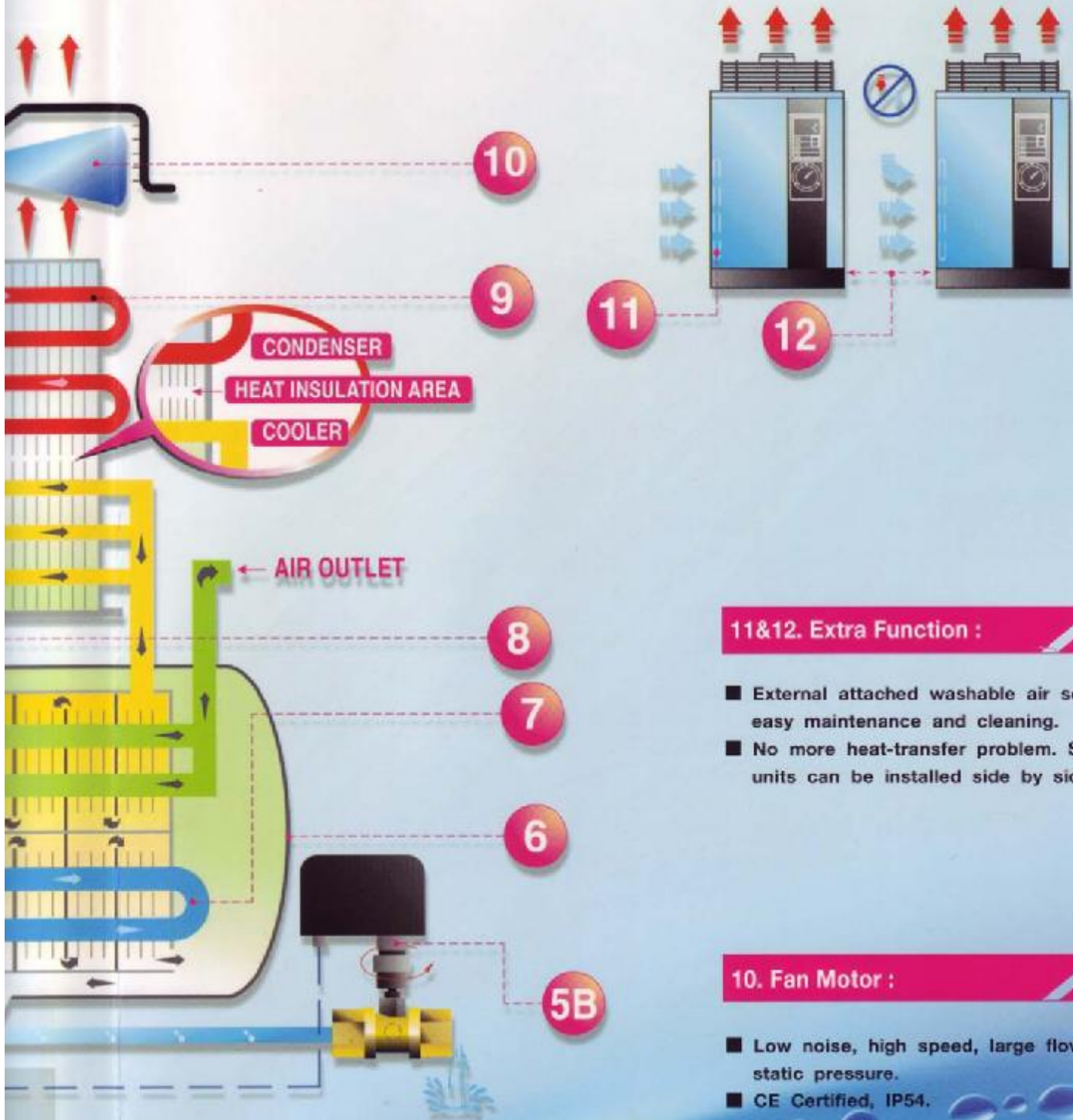


7. Evaporator :

- 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.

11&12. Extra Function :

- External attached washable air screen for easy maintenance and cleaning.
- No more heat-transfer problem. Several units can be installed side by side.

10. Fan Motor :

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

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MODEL	J2E-08G	J2E-10GP	J2E-15GP	J2E-25GP	J2E-40GP	J2E-60GP	J2E-75GP	J2E-100GP
Max. capacity(Nm ³ /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 source (60Hz)	220V / 1Ø					380V / 3Ø		
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
Dimension (mm)	H 480 L 490 W 380	H 735 L 500 W 380	H 775 L 600 W 380	H 775 L 600 W 380	H 960 L 700 W 500	H 960 L 700 W 500	H 1050 L 1020 W 540	H 1050 L 1020 W 540
Net weight (Kg)	27	40	50	54	83	93	127	173
Operating scope	Inlet temperature : 5~80°C(@60°C) Ambient temperature : 2~42°C(@38°C)				Working pressure : ≤1.0MPa(@0.7MPa) Dew point : 2~10°C(@10°C)			

Remarks

- ① 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.
- ② Max. working pressure 1.0MPa, high pressure available.
H₁ (1.1-2.0MPa) Designate NH₁P. Ex. J2E-15NH₁P
H₂ (2.1-3.0MPa) Designate NH₂P. Ex. J2E-15NH₂P
H₃ (3.1-4.0MPa) Designate NH₃P. Ex. J2E-15NH₃P
H₄ (4.1-5.0MPa) Designate NH₄P. Ex. J2E-15NH₄P
P.S. High pressure Inlet temperature @42°C
- ③ J2E-08G differs from other models in design without explanation.

DESIGN CONDITION

CORRECTION FACTORS

Working Pressure : 0.7MPa	0.4	0.5	0.6	0.7	0.8	0.9	1.0
A. Correction Factor	0.63	0.75	0.87	1.00	1.06	1.12	1.17
Dew Point : 10°C	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°C	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				

FORMULA:

Actual Capacity =
JM Capacity × (A×B×C×D×E)

Corrected Capacity =
Demanded Capacity + (A×B×C×D×E)



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