

1. Compressor type

Compressor model	EEI120T13DMH
Type	Completely Sealed Reciprocating Type
Control device	Inverter Board
Refrigerant	R290
Application	LBP/MBP
Cooling method	Fan cooling

2. Operating Condition

Ambient temperature	-5~43deg
Evaporating temperature	-40~5deg
Max discharge pressure	2.59MPa (abs. pressure)
Max motor winding temperature	130deg
Max discharge tube temperature	130deg
Starting characteristic	85% of Rated voltage @1.04 /1.04MPa (abs. pressure)

3. Compressor Design Parameter

Displacement	12.1cc
Rotation speed range (RPM)	1620-4320rpm (Forbidden speed 2700-2940rpm)
Oil type	ester oil
Oil viscosity	20.9~24.2 mm ² /s(40deg)
Oil charge amount	215±5cm ³
Compressor weight (including oil)	7.0kg±10%
Suction tube inner diameter	Inner diameter: 6.5+0.1mm(outer diameter 8.5×t1.0)
Discharge tube inner diameter	Inner diameter: 4.9+0.1mm(outer diameter 7.0×t1.05mm)
Process tube inner diameter	Inner diameter: 6.5+0.1mm(outer diameter 8.5×t1.0mm)
Material of Suc., Dis. and Pro tube	Copper tube
Protective gas	(Optional)
Impurity	≤10 mg
Moisture (including oil)	≤150 mg

4. Electrical characteristics

Insulation class	Grade E
Motor type	BLDC
Winding Material	Copper
Limit of Demagnetizing current	8.3A [Peak]
U-V/V-W/W-U resistance at 20deg	5.79±5% Ω
Max motor winding temperature	130deg
Electrical safety level	Compliant With GB/T4076.1, GB/T4706.13, GB/T4706.17/IEC60335-1, IEC60335-2-34

5. Performance data

Test power supply: 220V/ 50Hz, Panasonic TY Board

LBP operating condition	Tc/Te=54.4/-23.3°C			
Rotation speed range (RPM)	1620-4320 (Forbidden speed 2700-2940)			
Rotation (RPM)	1620	2400	3120	4320
Cooling capacity(W)≥95%	329	504	665	935
Input power(W)≤115%	197	286	389	563
COP (W/W) ≥95%	1.67	1.76	1.71	1.66

* Suction temp. 32.2deg, Sub cooling temp. 32.2deg

MBP operating condition	Tc/Te=54.4/-6.7°C			
Rotation speed range (RPM)	1620-4320 (Forbidden speed 2700-2940)			
Rotation (RPM)	1620	2400	3120	4320
Cooling capacity(W)≥95%	622	876	1110	1500
Input power(W)≤115%	311	417	547	765
COP (W/W) ≥95%	2.00	2.10	2.03	1.96

* Suction temp. 35.0deg, Sub cooling temp. 46.1deg

6. Compressor Appearance (Optional)

