MODEL
EMX6210U



APPROVALS

ENGINEERING CODE
721AA80

APPROVED REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
MBP

COOLING CAPACITY
696 W

EFFICIENCY
2.05 W/W

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	9.04 cm³
Compressor Cooling	Fan
Fan Air Flow	270 m³/h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/3 hp
Max Condensing Pressure Operating	18.07 bar
Max Condensing Pressure Peak	20.17 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-20 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	17.7 □ at 25° C
Run Winding Resistance	7.85 □ at 25° C
Locked Rotor Amperage (LRA)	16 A

Mechanical Data

Maximum Recommended Refrigerant Charge	150 g
Oil Charge	150 ml
Oil Type Configuration	Polyolester
Oil Type Viscosity	ISO10
Pressurization	Light vacuum
Weight	8.7 Kg
Free Internal Volume	1.5 L

Electrical Components

	Description
Start Capacitor	64-77 ?F / 330V
Starting Device	Current relay | MTRPH-0027-65
Motor Protection	External 4TM757KFBYY-153

External Characteristics

Base Plate	European
Tray Holder	Yes
Height	171 mm

Connector	Internal Diameter	Shape
Suction	6.1 mm	Slanted 42?
Discharge	6.1 mm	Straight
Process	6.1 mm	Slanted 46?

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
45.00°C	-10.00°C	696 W	339 W	2.05 A	8.54 kg/h	2.05 W/W

Test Condition: EN12900, Fan, Return Gas 20°C, Evaporation -10.00°C, Condensing 45.00°C, Ambient 35°C , Liquid 45°C. Data in accordance to EN12900 guideline polynomial curve.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-20	537	264	1.78	5.92	2.03
-15	656	285	1.86	7.29	2.3
-10	797	304	1.93	8.91	2.63
-5	959	318	1.98	10.81	3.01
0	1144	330	2.02	12.99	3.47
5	1350	338	2.05	15.49	4
10	1577	342	2.07	18.31	4.61

Test Condition: EN12900, Fan, MBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-20	463	286	1.86	5.60	1.62
-15	570	314	1.96	6.94	1.82
-10	696	339	2.05	8.54	2.05
-5	840	361	2.13	10.39	2.33
0	1003	380	2.2	12.53	2.64
5	1185	397	2.27	14.97	2.99
10	1386	410	2.32	17.72	3.38

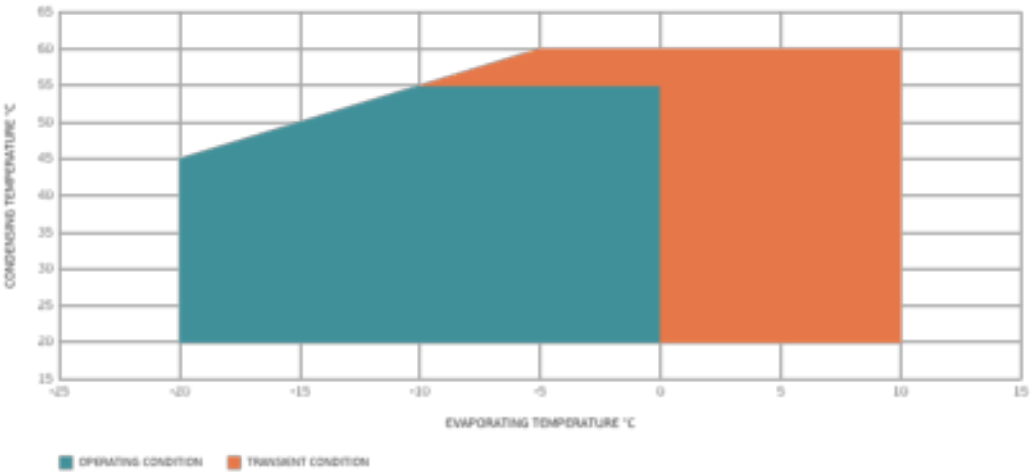
Test Condition: EN12900, Fan, MBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

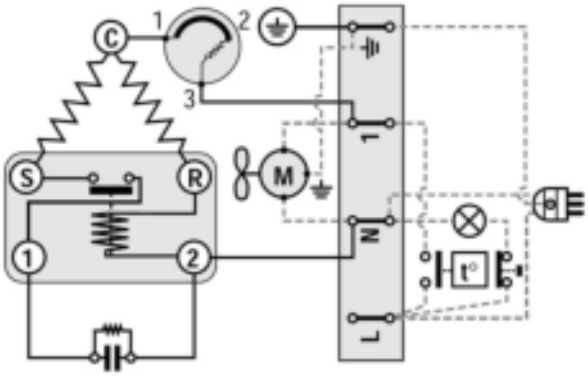
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	588	372	2.16	8.04	1.58
-5	711	404	2.28	9.80	1.76
0	849	433	2.4	11.84	1.96
5	1003	459	2.51	14.16	2.19
10	1173	483	2.62	16.79	2.43

Test Condition: EN12900, Fan, MBP. Data in accordance to EN12900 guideline polynomial curve.

Operating Envelope



Wiring Diagram



Assembly Instructions

