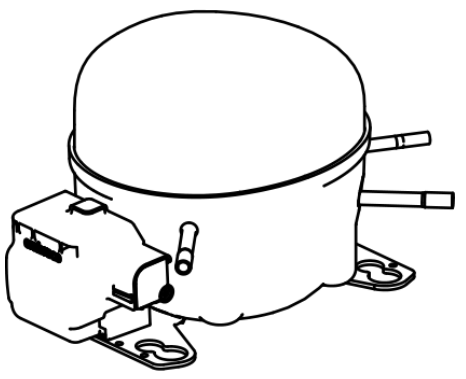
COMPRESSOR TECHNICAL DATA

EMX6210U



ENGINEERING CODE
513304120

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
MBP

MOTOR TYPE
CSIR

STANDARD
EN12900

COOLING CAPACITY
693 W

EFFICIENCY
2.04 W/W

DATA

GENERAL DATA

Model	EMX6210U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	MBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/3
Starting Torque	HST
Plant	BRAZIL

ELECTRICAL DATA

Start Winding Resistance	14.2 Ω at 25°C
Run Winding Resistance	9.2 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	16 A

MECHANICAL DATA

Displacement	9.04 cm^3
Oil Charge	150 ml
Oil Type	ALQUILB
Oil Viscosity	ISO22
Weight	7.4 Kg

ELECTRICAL COMPONENTS

Start Capacitor	64-77 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	QL2-6.2* QL2-6R2*
Overload Protection	DRB30N61AYF

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	MBP
Tested Standard	EN12900
Tested Cooling	Fan
Tested Voltage	220 V
Max Refrigerant Charge	150 g
Refrigerant Temperature	Dew

RATED POINTS

Condensing Temperature °C	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
45	-10	693	2.04	340	2.04	8.53

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE — Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-20	533	2.03	263	1.78	5.91
-15	655	2.31	284	1.86	7.30
-10	797	2.63	303	1.92	8.93
-5	961	3.01	320	1.98	10.83
0	1147	3.47	331	2.02	13.02
5	1354	4.05	334	2.05	15.51
10	1584	4.84	328	2.07	18.33

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE — Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-20	463	1.60	289	1.85	5.63
-15	569	1.81	313	1.95	6.96
-10	693	2.04	340	2.04	8.53
-5	837	2.29	366	2.13	10.37
0	999	2.57	389	2.20	12.49
5	1181	2.90	407	2.27	14.90
10	1383	3.31	418	2.32	17.64

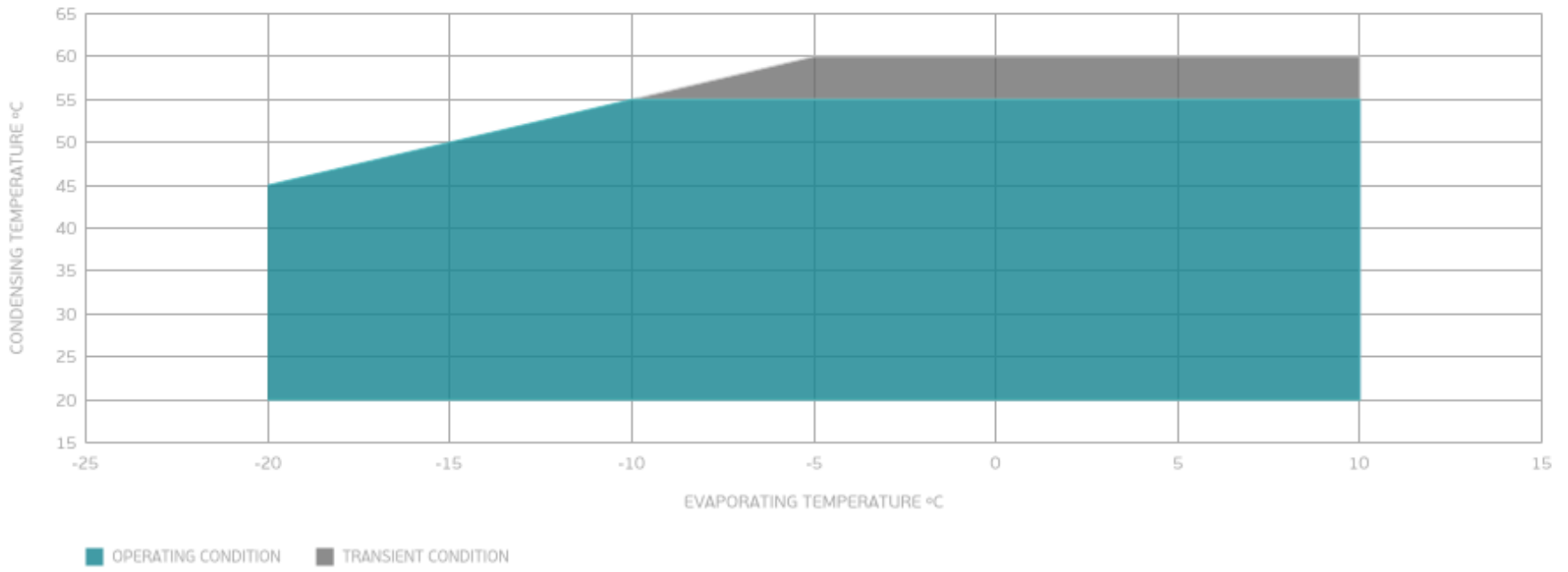
Test Condition: Subcooling 0 K, Return Gas 20 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE — Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	586	1.61	364	2.16	8.05
-5	709	1.79	397	2.28	9.81
0	848	1.98	429	2.40	11.85
5	1004	2.19	459	2.51	14.18
10	1178	2.43	485	2.62	16.83

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



External

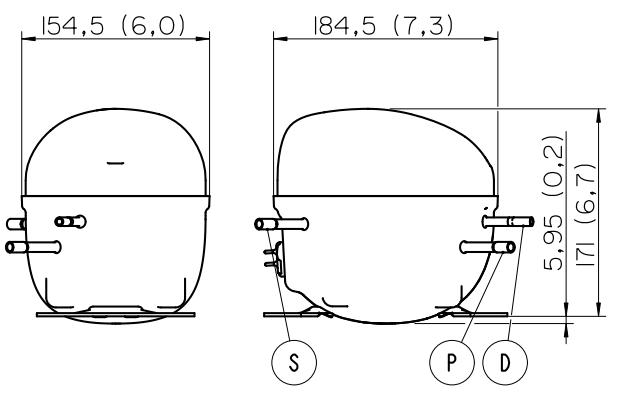
EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	YES

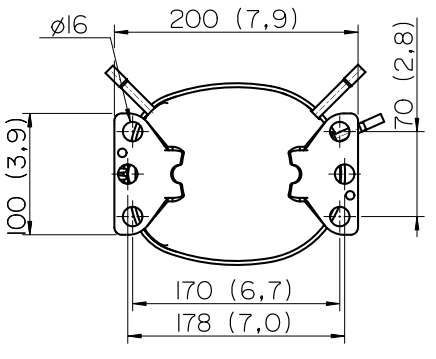
Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 42º UP + 45° TO BACK	COPPER
Discharge	6.1 mm	SLANTED 0° UP + 24° TO BACK	COPPER
Process	6.1 mm	SLANTED 45° UP + 45° TO BACK	COPPER

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE