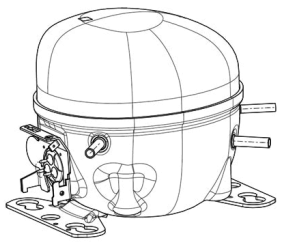
COMPRESSOR TECHNICAL DATA

EMX6181U



ENGINEERING CODE
721BI80

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50-60 Hz

APPLICATION
MBP

MOTOR TYPE
CSIR

STANDARD
EN12900

COOLING CAPACITY
628 W

EFFICIENCY
2.17 W/W

DATA

GENERAL DATA

Model	EMX6181U
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	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	17.7 Ω at 25°C
Run Winding Resistance	7.85 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	13 A
Locked Rotor Amperage (LRA) 60Hz	13 A

MECHANICAL DATA

Displacement	6.92 cm^3
Oil Charge	150 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	8 Kg

ELECTRICAL COMPONENTS

Start Capacitor	53-64 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	4TM319NFBYY-153 DRB30N61AYF

EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	YES

Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 42° UP + 45° TO BACK	COPPER
Discharge	6.1 mm	STRAIGHT	COPPER
Process	6.1 mm	SLANTED 46°	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	MBP
Tested Standard	EN12900
Tested Cooling	Fan
Tested Voltage	220 V
Tested Frequency	60 Hz
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	628	2.17	290	-	7.73

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

PERFORMANCE CURVE

Condensing Temperature 35ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-20	481	2.16	222	-	5.32
-15	592	2.47	240	-	6.60
-10	725	2.82	257	-	8.13
-5	882	3.24	272	-	9.93
0	1062	3.75	283	-	12.05
5	1267	4.41	287	-	14.51
10	1499	5.32	282	-	17.34

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

PERFORMANCE CURVE

Condensing Temperature 45ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-20	418	1.69	248	-	5.09
-15	513	1.92	267	-	6.28
-10	628	2.17	290	-	7.73
-5	764	2.44	313	-	9.46
0	921	2.76	334	-	11.51
5	1102	3.14	351	-	13.90
10	1307	3.62	361	-	16.67

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

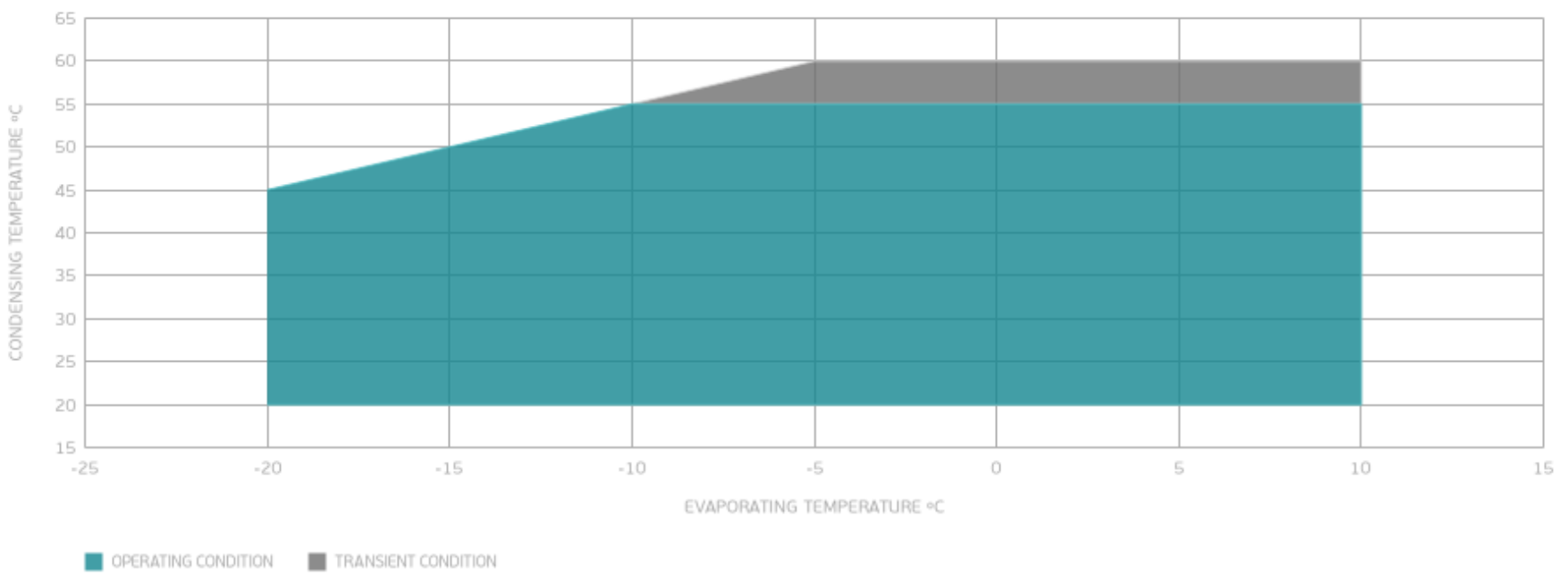
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	534	1.70	314	-	7.33
-5	648	1.90	342	-	8.97
0	781	2.11	370	-	10.92
5	936	2.36	397	-	13.22
10	1113	2.65	420	-	15.90

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

ENVELOPE



EXTERNAL DIMENSIONS