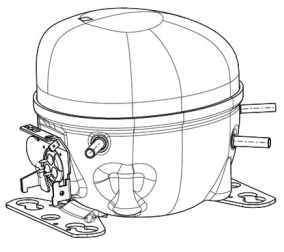
COMPRESSOR TECHNICAL DATA

EMX6144U



ENGINEERING CODE
721FI52

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50-60 Hz

APPLICATION
MBP

MOTOR TYPE
CSIR

STANDARD
EN12900

COOLING CAPACITY
432 W

EFFICIENCY
2.1 W/W

DATA

GENERAL DATA

Model	EMX6144U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	MBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/240
HP	1/5
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	15.23 Ω at 25°C
Run Winding Resistance	15.03 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	9 A
Locked Rotor Amperage (LRA) 60Hz	9 A

MECHANICAL DATA

Displacement	4.53 cm^3
Oil Charge	150 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	7.7 Kg

ELECTRICAL COMPONENTS

Start Capacitor	53-64 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	OLP 4TM317KDBYY-153

EXTERNAL CHARACTERISTICS

Base Plate	SMALL

Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 42°	COPPER
Discharge	4.94 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	240 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	432	2.1	205	-	5.32

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	332	2.11	157	-	3.67
-15	406	2.37	171	-	4.52
-10	494	2.68	184	-	5.53
-5	596	3.05	195	-	6.71
0	713	3.53	202	-	8.09
5	845	4.15	204	-	9.68
10	993	5.01	198	-	11.49

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	289	1.68	172	-	3.52
-15	355	1.88	188	-	4.34
-10	432	2.10	205	-	5.32
-5	522	2.35	222	-	6.47
0	624	2.64	236	-	7.80
5	740	2.99	247	-	9.34
10	870	3.44	253	-	11.10

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

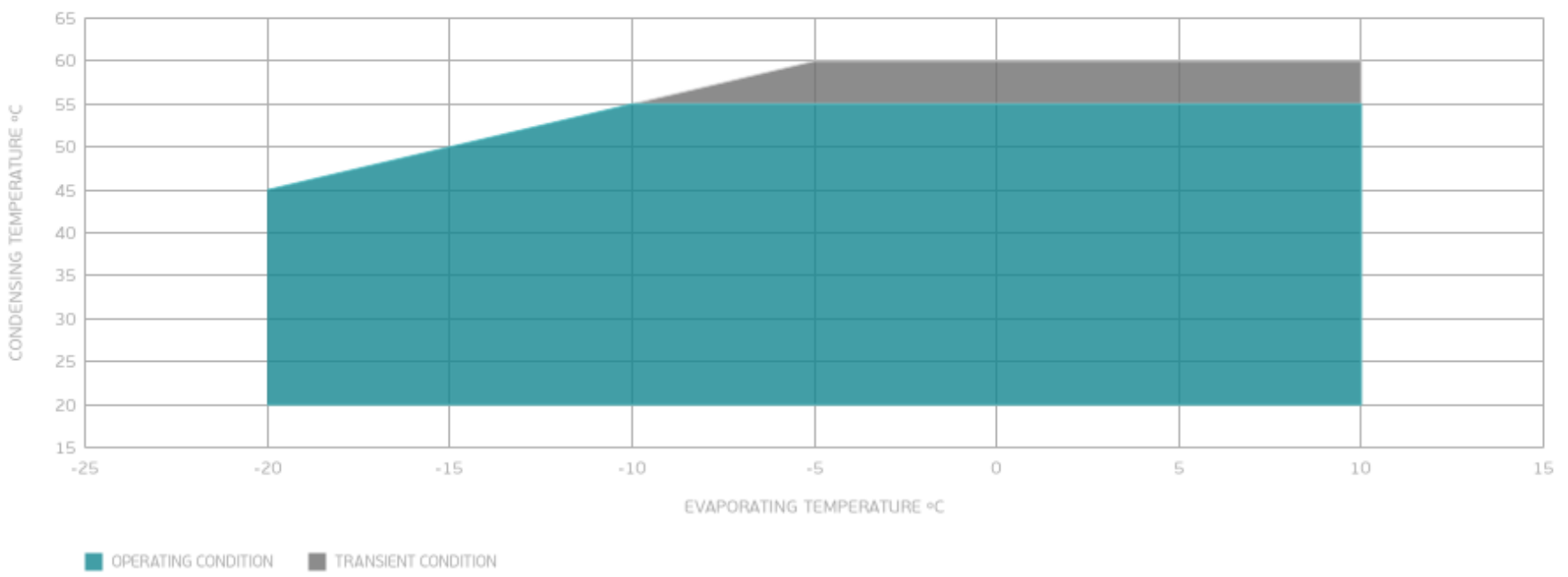
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	367	1.66	221	-	5.04
-5	444	1.84	241	-	6.14
0	532	2.04	261	-	7.43
5	631	2.26	279	-	8.92
10	743	2.53	293	-	10.62

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

ENVELOPE



EXTERNAL DIMENSIONS