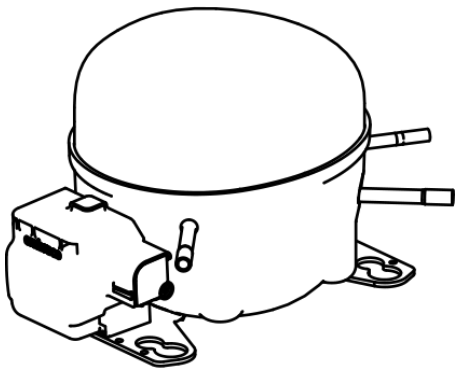
COMPRESSOR TECHNICAL DATA

EMX6152U



ENGINEERING CODE
721GI52

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50-60 Hz

APPLICATION
MBP

MOTOR TYPE
CSIR

STANDARD
EN12900

COOLING CAPACITY
462 W

EFFICIENCY
2.12 W/W

DATA

GENERAL DATA

Model	EMX6152U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	MBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/240
HP	1/4
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	13.75 Ω at 25°C
Run Winding Resistance	13.0 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	11 A
Locked Rotor Amperage (LRA) 60Hz	11 A

MECHANICAL DATA

Displacement	5.19 cm^3
Oil Charge	150 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	7.7 Kg

ELECTRICAL COMPONENTS

Start Capacitor	64-77 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	MTRPH-0025-65*
Overload Protection	4TM319NFBYY-53

EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	NO

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	462	2.12	218	-	5.69

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

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	354	2.12	167	-	3.93
-15	438	2.43	180	-	4.88
-10	537	2.77	194	-	6.02
-5	653	3.17	206	-	7.36
0	787	3.67	215	-	8.93
5	940	4.31	218	-	10.76
10	1112	5.19	214	-	12.87

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

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	304	1.64	185	-	3.70
-15	376	1.88	200	-	4.60
-10	462	2.12	218	-	5.69
-5	564	2.39	236	-	6.98
0	681	2.70	252	-	8.51
5	815	3.08	264	-	10.29
10	968	3.56	272	-	12.35

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

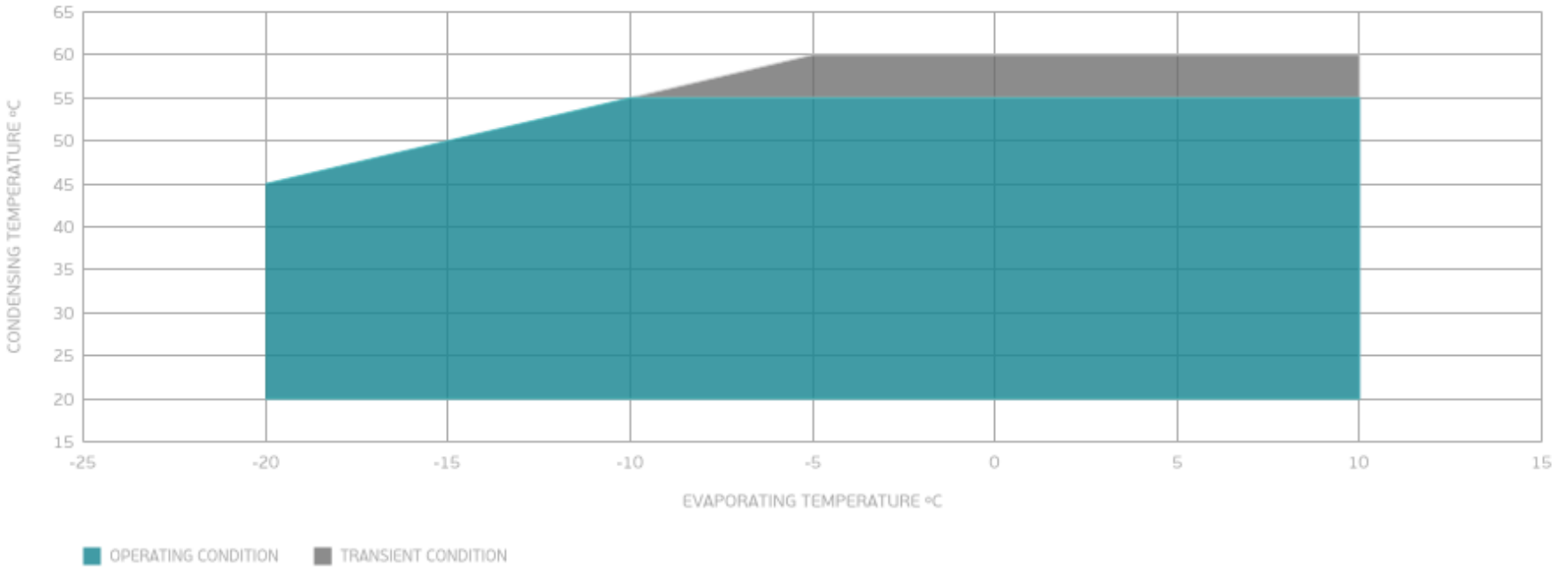
PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	388	1.67	232	-	5.32
-5	474	1.86	254	-	6.56
0	574	2.08	276	-	8.02
5	690	2.33	296	-	9.74
10	822	2.63	313	-	11.74

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

ENVELOPE



EXTERNAL DIMENSIONS

