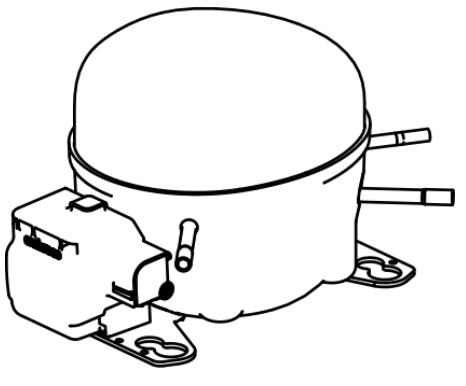
COMPRESSOR TECHNICAL DATA

EMX6181U



ENGINEERING CODE
721BI80

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50-60 Hz

APPLICATION
MBP

MOTOR TYPE
CSIR

STANDARD
ASHRAE

COOLING CAPACITY
691 W

EFFICIENCY
2.08 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
Starting Device Description	MTRP-0027* MTRPH-0027-65*
Overload Protection	4TM319NFBYY-153 DRB30N61AYF

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	STRAIGHT	COPPER
Process	6.1 mm	SLANTED 46°	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	MBP
Tested Standard	ASHRAE
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
54.4	-6.7	691	2.08	332	1.87	7.91

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

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	523	2.35	222	1.41	5.03
-15	644	2.69	240	1.49	6.23
-10	788	3.06	257	1.55	7.65
-5	957	3.51	273	1.61	9.34
0	1152	4.06	284	1.65	11.30
5	1374	4.77	288	1.69	13.56
10	1623	5.74	283	1.71	16.14

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

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	463	1.86	248	1.49	4.81
-15	567	2.12	268	1.58	5.93
-10	694	2.39	290	1.67	7.28
-5	843	2.69	313	1.75	8.89
0	1017	3.04	335	1.83	10.79
5	1215	3.45	352	1.90	12.99
10	1440	3.97	363	1.96	15.51

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

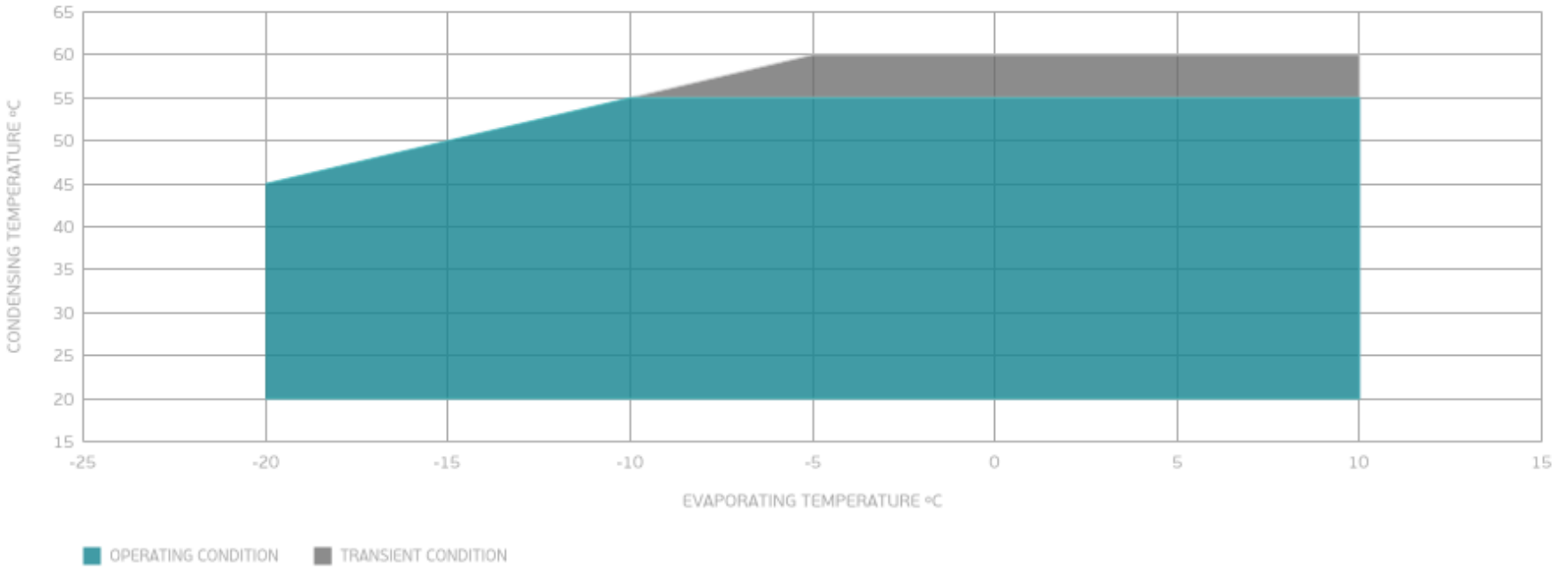
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	603	1.91	315	1.81	6.91
-5	731	2.13	343	1.92	8.43
0	882	2.37	372	2.03	10.24
5	1056	2.65	399	2.15	12.35
10	1255	2.97	423	2.26	14.80

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



EXTERNAL DIMENSIONS