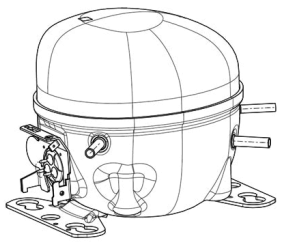
COMPRESSOR TECHNICAL DATA

EMY6181U



ENGINEERING CODE
7210A80

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
MBP

MOTOR TYPE
CSIR

STANDARD
ASHRAE

COOLING CAPACITY
585 W

EFFICIENCY
1.93 W/W

DATA

GENERAL DATA

Model	EMY6181U
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	13.75 Ω at 25°C
Run Winding Resistance	13.0 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	13 A
Rated Load Amperage (LMBP) at 50 Hz	2.5 A

MECHANICAL DATA

Displacement	6.92 cm^3
Oil Charge	150 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	7.7 Kg

ELECTRICAL COMPONENTS

Start Capacitor	88-108 64-77 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°	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	50 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	585	1.93	303	1.77	6.69

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	446	2.16	207	1.47	4.29
-15	547	2.48	221	1.51	5.29
-10	668	2.87	233	1.54	6.49
-5	809	3.33	243	1.57	7.89
0	970	3.92	248	1.59	9.51
5	1151	4.67	246	1.60	11.36
10	1355	5.70	238	1.60	13.47

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	393	1.71	229	1.51	4.09
-15	483	1.96	247	1.58	5.05
-10	591	2.23	265	1.63	6.20
-5	716	2.54	282	1.68	7.55
0	859	2.90	296	1.73	9.11
5	1021	3.33	306	1.76	10.91
10	1203	3.88	310	1.78	12.96

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

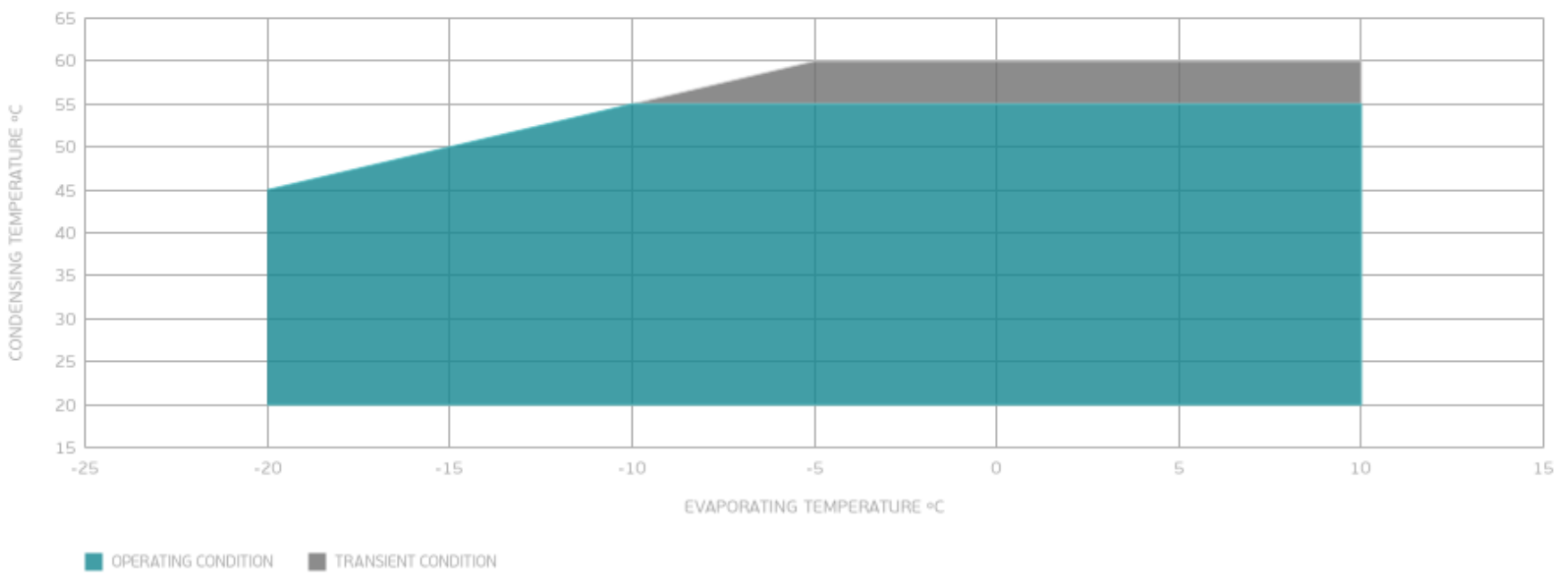
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	509	1.76	289	1.73	5.83
-5	618	1.98	312	1.81	7.13
0	744	2.23	334	1.88	8.63
5	886	2.51	353	1.94	10.36
10	1046	2.84	368	2.00	12.34

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

