

EMY6170Z



ENGINEERING CODE
513301855



REFRIGERANT
R-134a



POWER SUPPLY
220-240 V 50 Hz



APPLICATION
HBP



MOTOR TYPE
CSIR



STANDARD
ASHRAE



COOLING CAPACITY
795 W



EFFICIENCY
2.6 W/W

DATA

GENERAL DATA

Model	EMY6170Z
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	HBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/4
Starting Torque	HST
Plant	BRAZIL

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	10 A
Rated Load Amperage (LMBP) at 50 Hz	1.7 A
Rated Load Amperage (HBP) at 50 Hz	1.9 A

MECHANICAL DATA

Displacement	7.51 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
Starting Device Description	MTRPH-0025-77*
Overload Protection	4TM319KDBYY

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	HBP
Tested Standard	ASHRAE
Tested Cooling	Fan
Tested Voltage	220 V
Max Refrigerant Charge	250 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	7.2	795	2.6	306	1.73	17.58

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

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
-15	453	2.69	168	1.35	8.36
-10	576	3.10	186	1.39	10.67
-5	723	3.52	206	1.43	13.44
0	891	3.99	223	1.47	16.64
5	1079	4.57	236	1.52	20.26
10	1286	5.33	241	1.58	24.29

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

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
-15	366	1.99	184	1.37	7.30
-10	467	2.30	203	1.41	9.34
-5	590	2.61	226	1.47	11.86
0	735	2.92	251	1.53	14.83
5	898	3.25	276	1.60	18.24
10	1080	3.64	297	1.68	22.08

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

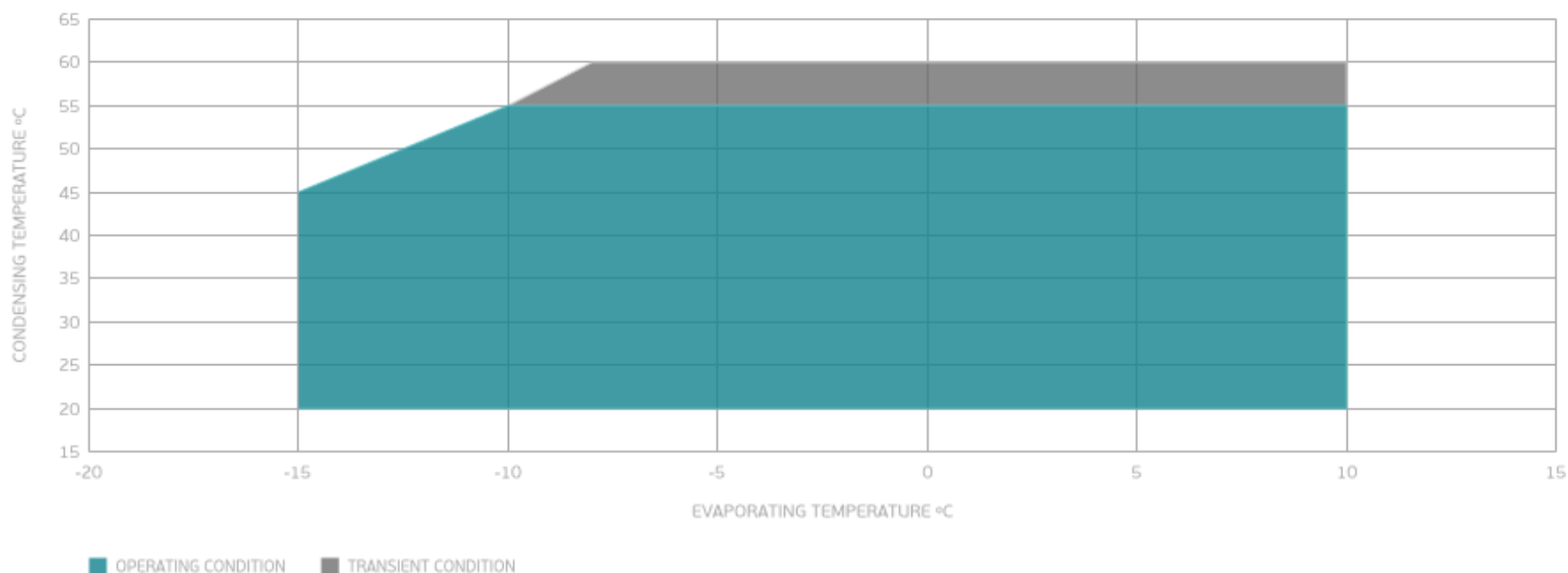
PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	364	1.73	210	1.45	7.95
-5	462	1.98	233	1.52	10.13
0	580	2.22	261	1.60	12.79
5	717	2.45	293	1.69	15.91
10	871	2.69	324	1.79	19.47

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

ENVELOPE



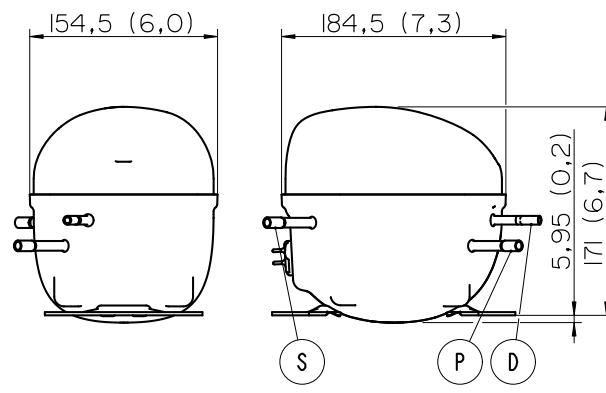
External

EXTERNAL CHARACTERISTICS

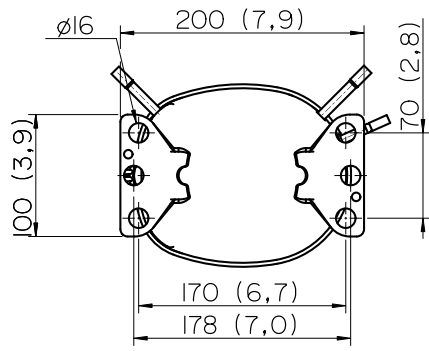
Base Plate		SMALL	
Tray Holder		YES	
Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 42° UP + 45° TO BACK	COPPER
Discharge	4.94 mm	SLANTED 0° UP + 45° TO BACK	COPPER
Process	6.1 mm	SLANTED 45° UP + 45° TO BACK	COPPER

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE

