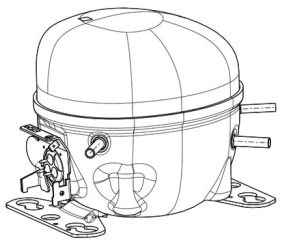
COMPRESSOR TECHNICAL DATA

EMYE70CLP



ENGINEERING CODE
513306268

REFRIGERANT
R-600a

POWER SUPPLY
220 V 50-60 Hz

APPLICATION
LBP

MOTOR TYPE
RSIR

STANDARD
ASHRAE

COOLING CAPACITY
188 W

EFFICIENCY
1.34 W/W

DATA

GENERAL DATA

Model	EMYE70CLP
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
HP	1/5
Starting Torque	LST
Plant	BRAZIL

ELECTRICAL DATA

Start Winding Resistance	14.88 Ω at 25°C
Run Winding Resistance	11.88 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	8.2 A
Locked Rotor Amperage (LRA) 60Hz	7.8 A
Rated Load Amperage (LMBP) at 50 Hz	1.4 A
Rated Load Amperage (LMBP) at 60 Hz	1.4 A
Rated Load Amperage (HBP) at 50 Hz	1.9 A
Rated Load Amperage (HBP) at 60 Hz	1.6 A

MECHANICAL DATA

Displacement	10.61 cm^3
Oil Charge	180 ml
Oil Type	ALQUILB
Oil Viscosity	ISO5
Weight	7.7 Kg

ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	PTC
Overload Protection	4TM283NFBYY-53

EXTERNAL CHARACTERISTICS

Base Plate	SMALL V2
Tray Holder	YES

Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 42º UP + 45° TO BACK	COPPER
Discharge	4.94 mm	SLANTED PARALLET BP+24°TO BACK	COPPER
Process	6.1 mm	SLANTED 45° UP + 45° TO BACK	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-600a
Tested Application	LBP
Tested Standard	ASHRAE
Tested Cooling	Static
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	-23.3	188	1.34	141	1.31	2.02

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 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
-35	112	1.08	104	1.25	1.20
-30	147	1.23	119	1.21	1.58
-25	192	1.51	128	1.27	2.07
-20	246	1.81	136	1.33	2.64
-15	304	2.03	150	1.30	3.27

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 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
-35	103	0.97	106	1.25	1.10
-30	137	1.11	123	1.21	1.47
-25	182	1.36	134	1.27	1.96
-20	235	1.62	145	1.34	2.53
-15	293	1.80	163	1.32	3.16

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

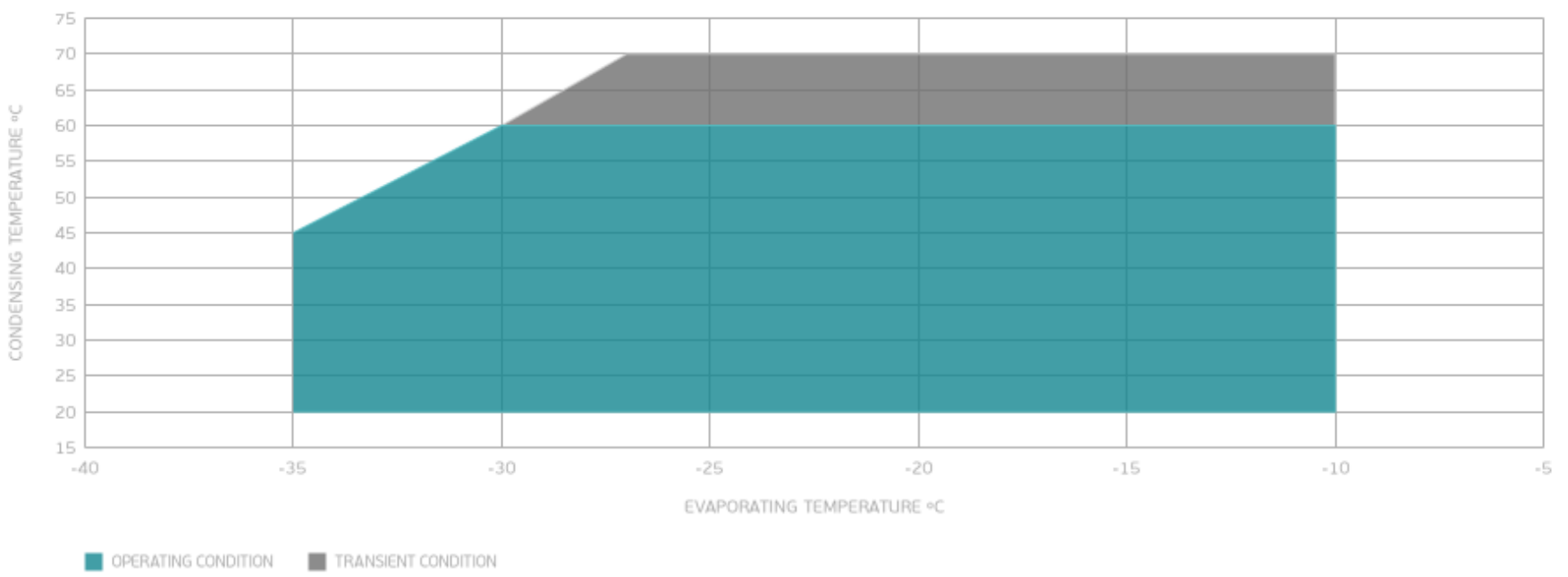
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	127	1.03	123	1.22	1.36
-25	171	1.26	136	1.28	1.84
-20	224	1.50	150	1.35	2.40
-15	281	1.65	171	1.35	3.03

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



EXTERNAL DIMENSIONS

