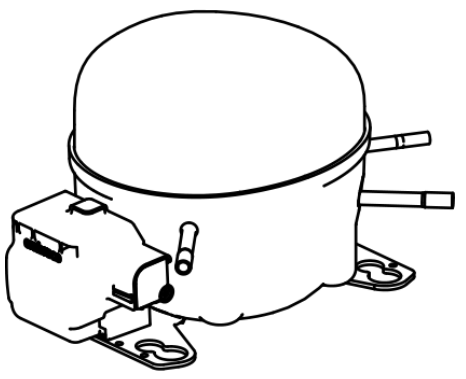
COMPRESSOR TECHNICAL DATA

EMY3118Y



ENGINEERING CODE
513301827

REFRIGERANT
R-600a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
L/MBP

MOTOR TYPE
RSIR

STANDARD
EN12900

COOLING CAPACITY
364 W

EFFICIENCY
1.96 W/W

DATA

GENERAL DATA

Model	EMY3118Y
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	L/MBP
Expansion Device	Capillary Tube
Compressor Cooling	Fan/220
HP	1/4-
Starting Torque	LST
Plant	BRAZIL

ELECTRICAL DATA

Start Winding Resistance	15.23 Ω at 25°C
Run Winding Resistance	15.03 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	8.2 A
Rated Load Amperage (LMBP) at 50 Hz	1 A
Rated Load Amperage (HBP) at 50 Hz	1.2 A

MECHANICAL DATA

Displacement	12.21 cm^3
Oil Charge	150 ml
Oil Type	ALQUILB
Oil Viscosity	ISO5
Weight	7.7 Kg

ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	PTC
Starting Device Description	MI2021 V230
Overload Protection	AE15BU AE19BU

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-600a
Tested Application	MBP
Tested Standard	EN12900
Tested Cooling	Fan
Tested Voltage	220 V
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	364	1.96	186	-	4.68

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

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	102	1.00	103	-	1.30
-30	138	1.19	116	-	1.76
-25	182	1.38	132	-	2.32
-20	234	1.57	149	-	3.00
-15	295	1.76	168	-	3.78
-10	364	1.96	186	-	4.68
-5	441	2.17	203	-	5.68
0	526	2.40	219	-	6.80

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

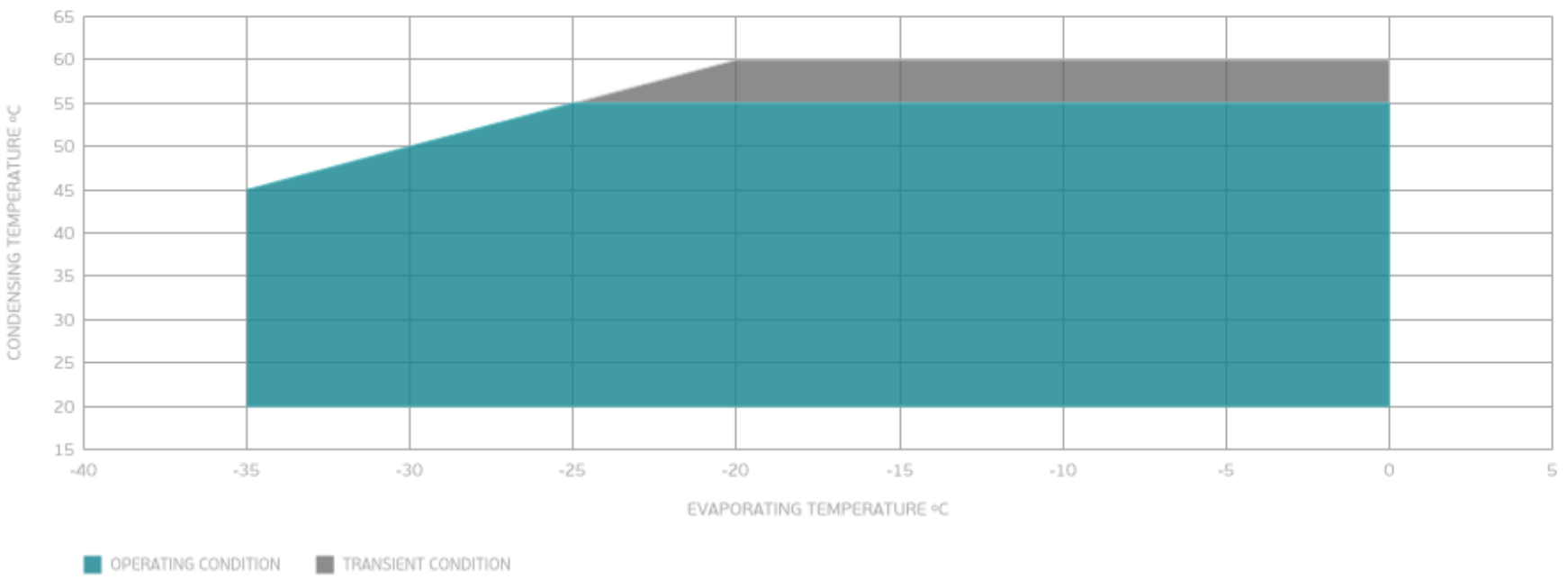
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	154	1.12	137	-	2.16
-20	200	1.27	157	-	2.82
-15	254	1.42	178	-	3.58
-10	315	1.57	201	-	4.47
-5	384	1.72	223	-	5.47
0	461	1.89	244	-	6.58

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

ENVELOPE



External

EXTERNAL CHARACTERISTICS

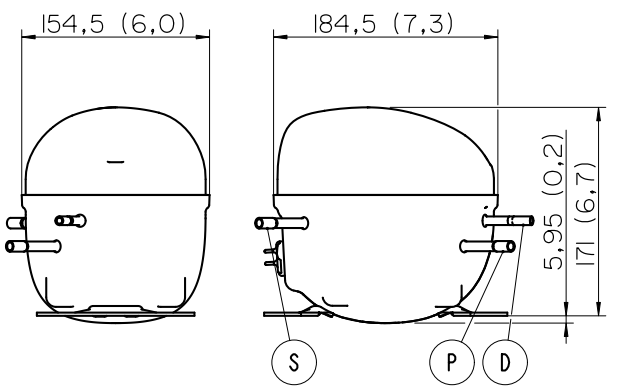
Base Plate	SMALL
Tray Holder	NO

Connector	Internal Diameter	Shape	Material

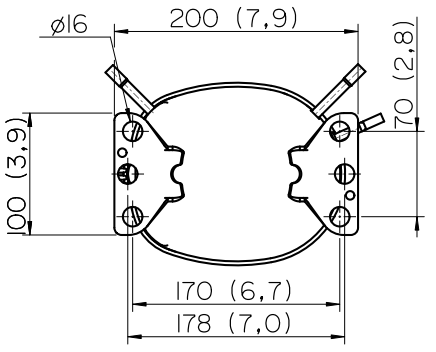
Suction	6.1 mm	SLANTED 42º UP + 45° TO BACK	COPPER
Discharge	4.94 mm	SLANTED 0° UP + 24° TO BACK	COPPER
Process	6.1 mm	SLANTED 45° UP + 45° TO BACK	COPPER

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE