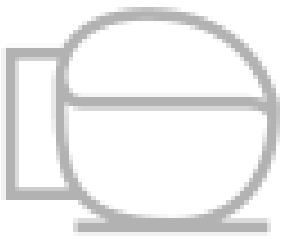
COMPRESSOR TECHNICAL DATA

EMT40CLP



ENGINEERING CODE
891DA79

REFRIGERANT
R-600a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
RSIR

STANDARD
EN12900

COOLING CAPACITY
64 W

EFFICIENCY
0.97 W/W

DATA

GENERAL DATA

Model	EMT40CLP
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
Starting Torque	LST
Plant	ITALY

ELECTRICAL DATA

Start Winding Resistance	32.0 Ω at 25°C
Run Winding Resistance	26.6 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	3.9 A
Rated Load Amperage (LMBP) at 50 Hz	0.6 A

MECHANICAL DATA

Displacement	7.23 cm^3
Oil Charge	180 ml
Oil Type	MINERAL
Oil Viscosity	ISO7
Weight	7 Kg

ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	PTC
Starting Device Description	MSDA3
Overload Protection	4TM189NFBYY-153

EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	NO

Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 42°	COPPER
Discharge	5.1 mm	STRAIGHT	COPPER
Process	6 mm	SLANTED 42°	COPPER(OD)

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-600a
Tested Application	LBP
Tested Standard	EN12900
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
40	-35	64	0.97	66	-	0.78

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

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
-35	69	1.06	65	-	0.80
-30	91	1.26	73	-	1.07
-25	120	1.47	82	-	1.40
-20	154	1.70	91	-	1.81
-15	195	1.97	99	-	2.29
-10	242	2.30	106	-	2.85
-5	296	2.69	110	-	3.50

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

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
-35	59	0.87	68	-	0.75
-30	79	1.03	77	-	1.01
-25	104	1.20	87	-	1.33
-20	135	1.38	98	-	1.73
-15	171	1.58	109	-	2.19
-10	213	1.80	119	-	2.74
-5	262	2.05	128	-	3.37

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

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
-30	66	0.84	78	-	0.93
-25	88	0.99	89	-	1.24
-20	115	1.13	102	-	1.62
-15	147	1.28	115	-	2.08
-10	184	1.44	128	-	2.61
-5	227	1.62	140	-	3.22

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

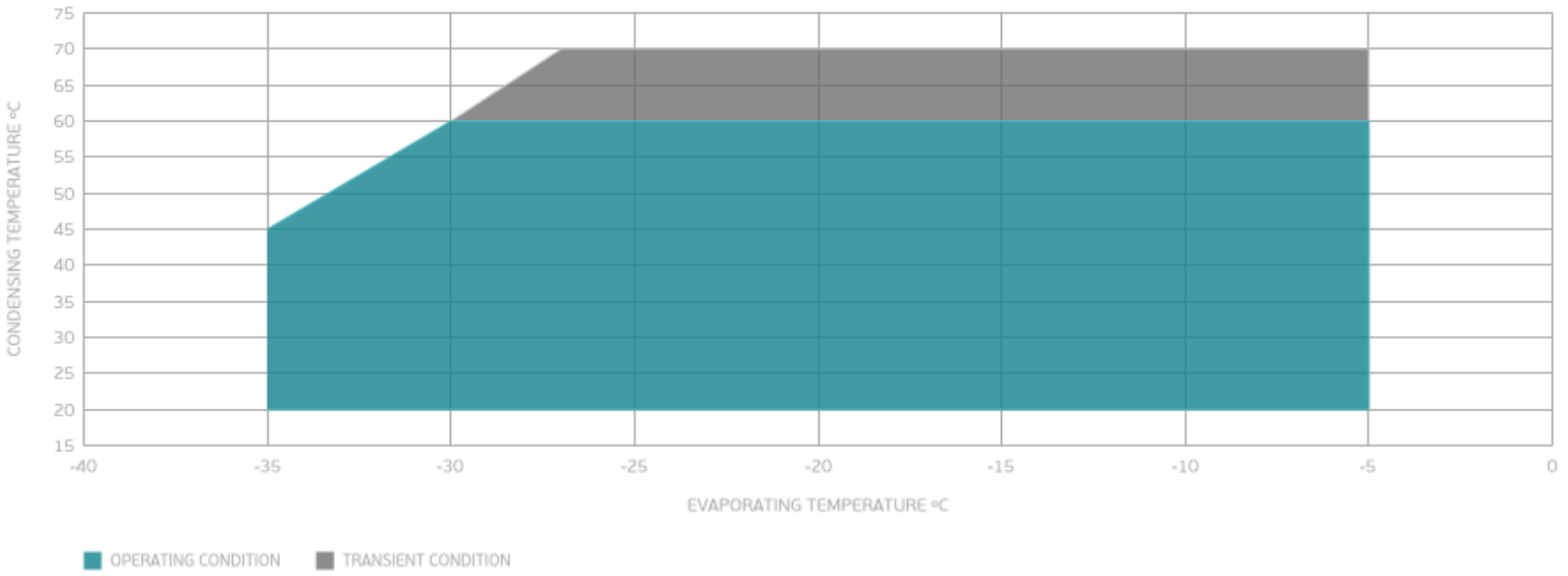
PERFORMANCE CURVE

Condensing Temperature 65ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	71	0.80	89	-	1.12
-20	94	0.92	102	-	1.49
-15	122	1.04	117	-	1.93
-10	154	1.16	133	-	2.44
-5	191	1.29	148	-	3.04

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

ENVELOPE



EXTERNAL DIMENSIONS

