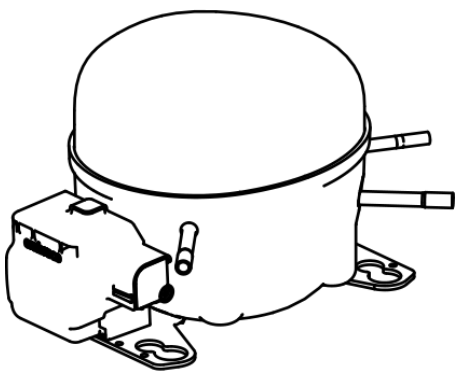
COMPRESSOR TECHNICAL DATA

EMT40CLP



ENGINEERING CODE
895DA72

REFRIGERANT
R-600a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
RSIR/RSCR

STANDARD
CECOMAF

COOLING CAPACITY
91 W

EFFICIENCY
1.08 W/W

DATA

GENERAL DATA

Model	EMT40CLP
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
HP	1/8
Starting Torque	LST
Plant	ITALY

ELECTRICAL DATA

Start Winding Resistance	26.7 Ω at 25°C
Run Winding Resistance	27.2 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	4.3 A
Rated Load Amperage (LMBP) at 50 Hz	0.5 A

MECHANICAL DATA

Displacement	7.23 cm^3
Oil Charge	180 ml
Oil Type	ALQUILB
Oil Viscosity	ISO5
Weight	7.3 Kg

ELECTRICAL COMPONENTS

Run Capacitor	2.5 µf/300 V
CSR CSIR BOX	No
Starting Device Type	PTC
Starting Device Description	MI2021
Overload Protection	AE64FS

EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	NO

Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 42°	COPPER
Discharge	4.94 mm	STRAIGHT	COPPER
Process	6.1 mm	SLANTED 42°	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-600a
Tested Application	LBP
Tested Standard	CECOMAF
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
55	-25	91	1.08	84	0.53	1.18

Test Condition: Subcooling 0 K, Return Gas 32 °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
-35	71	1.14	63	0.46	0.78
-30	94	1.35	70	0.48	1.04
-25	123	1.58	78	0.51	1.35
-20	158	1.84	86	0.54	1.74
-15	199	2.13	93	0.57	2.19
-10	247	2.47	100	0.60	2.73

Test Condition: Subcooling 0 K, Return Gas 32 °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
-35	61	0.93	65	0.47	0.72
-30	81	1.11	73	0.49	0.97
-25	107	1.30	82	0.52	1.28
-20	138	1.50	92	0.56	1.65
-15	176	1.71	103	0.59	2.10
-10	219	1.94	113	0.63	2.62

Test Condition: Subcooling 0 K, Return Gas 32 °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
-30	68	0.92	74	0.50	0.88
-25	91	1.08	84	0.53	1.18
-20	118	1.23	96	0.57	1.55
-15	151	1.40	108	0.61	1.98
-10	190	1.57	121	0.65	2.49

Test Condition: Subcooling 0 K, Return Gas 32 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

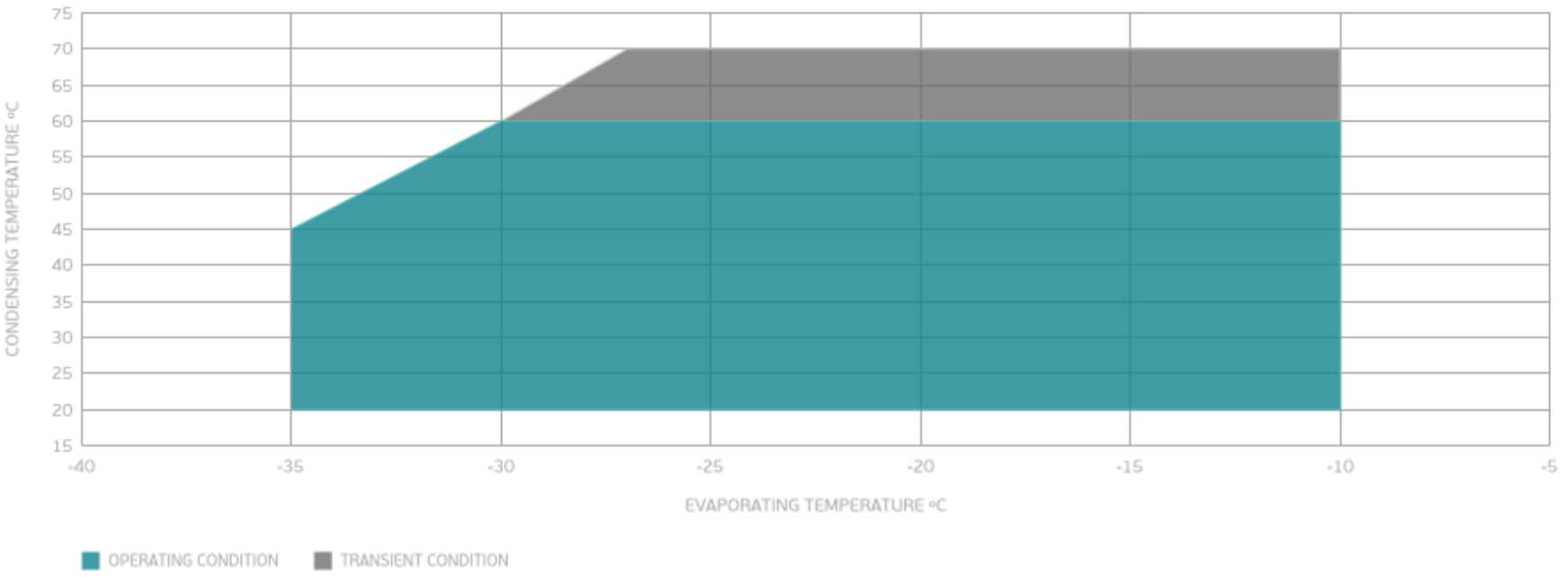
PERFORMANCE CURVE

Condensing Temperature 65ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	74	0.89	84	0.54	1.07
-20	98	1.02	96	0.58	1.42
-15	127	1.15	110	0.63	1.84
-10	161	1.28	125	0.69	2.34

Test Condition: Subcooling 0 K, Return Gas 32 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



EXTERNAL DIMENSIONS