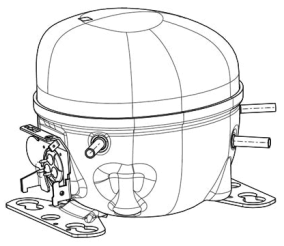
COMPRESSOR TECHNICAL DATA

EMC40CLT



ENGINEERING CODE
701NA96

REFRIGERANT
R-600a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
RSCR

STANDARD
EN12900

COOLING CAPACITY
62 W

EFFICIENCY
1.42 W/W

DATA

GENERAL DATA

Model	EMC40CLT
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
Starting Torque	LST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	18.8 Ω at 25°C
Run Winding Resistance	41.0 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	3.4 A
Rated Load Amperage (LMBP) at 50 Hz	0.5 A
Rated Load Amperage (HBP) at 50 Hz	0.6 A

MECHANICAL DATA

Displacement	7.23 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
Overload Protection	AE37FN

EXTERNAL CHARACTERISTICS

Base Plate	SMALL

Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 42º UP + 45° TO BACK	COPPER
Discharge	5.1 mm	SLANTED 0° UP + 45° TO BACK	COPPER
Process	5.1 mm	SLANTED 43° UP + 45° TO BACK	COPPER

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	62	1.42	43	-	0.75

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

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	68	1.58	43	-	0.79
-30	91	1.83	50	-	1.07
-25	121	2.10	58	-	1.42
-20	157	2.41	65	-	1.84
-15	199	2.74	73	-	2.34
-10	248	3.13	79	-	2.92

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	56	1.28	44	-	0.71
-30	77	1.48	52	-	0.98
-25	103	1.69	61	-	1.31
-20	135	1.91	71	-	1.72
-15	173	2.15	80	-	2.21
-10	216	2.40	90	-	2.78

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
-30	63	1.19	53	-	0.88
-25	85	1.36	63	-	1.20
-20	113	1.53	74	-	1.59
-15	146	1.70	86	-	2.06
-10	185	1.88	98	-	2.61

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

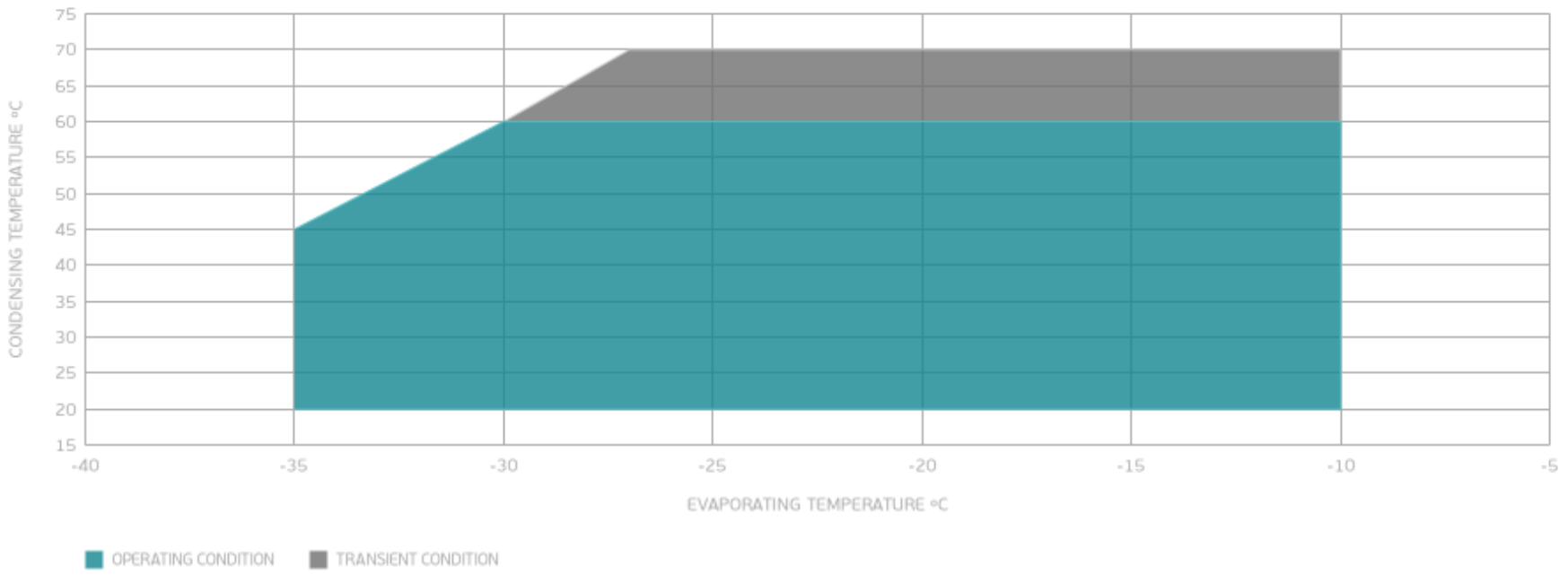
PERFORMANCE CURVE

Condensing Temperature 65°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	68	1.08	63	-	1.07
-20	91	1.21	75	-	1.44
-15	120	1.35	89	-	1.89
-10	153	1.48	104	-	2.43

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

ENVELOPE



EXTERNAL DIMENSIONS