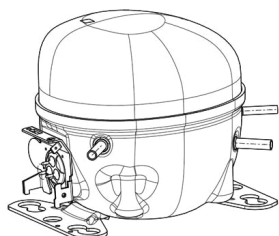


EMX70CLC



**ENGINEERING CODE**  
898ZA77

**REFRIGERANT**  
R-600a

**POWER SUPPLY**  
220-240 V 50 Hz

**APPLICATION**  
LBP

**MOTOR TYPE**  
RSCR

**STANDARD**  
EN12900

**COOLING CAPACITY**  
100 W

**EFFICIENCY**  
1.3 W/W

DATA

GENERAL DATA

Model	EMX70CLC
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
HP	1/4
Starting Torque	LST
Plant	ITALY

ELECTRICAL DATA

Start Winding Resistance	15.1 Ω at 25°C
Run Winding Resistance	20.1 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	4.9 A
Rated Load Amperage (LMBP) at 50 Hz	0.8 A

## MECHANICAL DATA

Displacement	11.36 cm <sup>3</sup>
Oil Charge	180 ml
Oil Type	ALQUILB
Oil Viscosity	ISO5
Weight	8.1 Kg

## ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	PTC
Overload Protection	T0225/07

## EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	YES

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	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	100	1.3	77	-	1.21

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	108	1.43	75	-	1.26
-30	144	1.65	87	-	1.68
-25	188	1.89	100	-	2.20
-20	242	2.14	113	-	2.84
-15	305	2.43	126	-	3.58
-10	378	2.75	138	-	4.45

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	91	1.17	78	-	1.16
-30	124	1.36	91	-	1.57
-25	163	1.55	105	-	2.08
-20	212	1.74	121	-	2.70
-15	268	1.94	138	-	3.44
-10	334	2.15	155	-	4.30

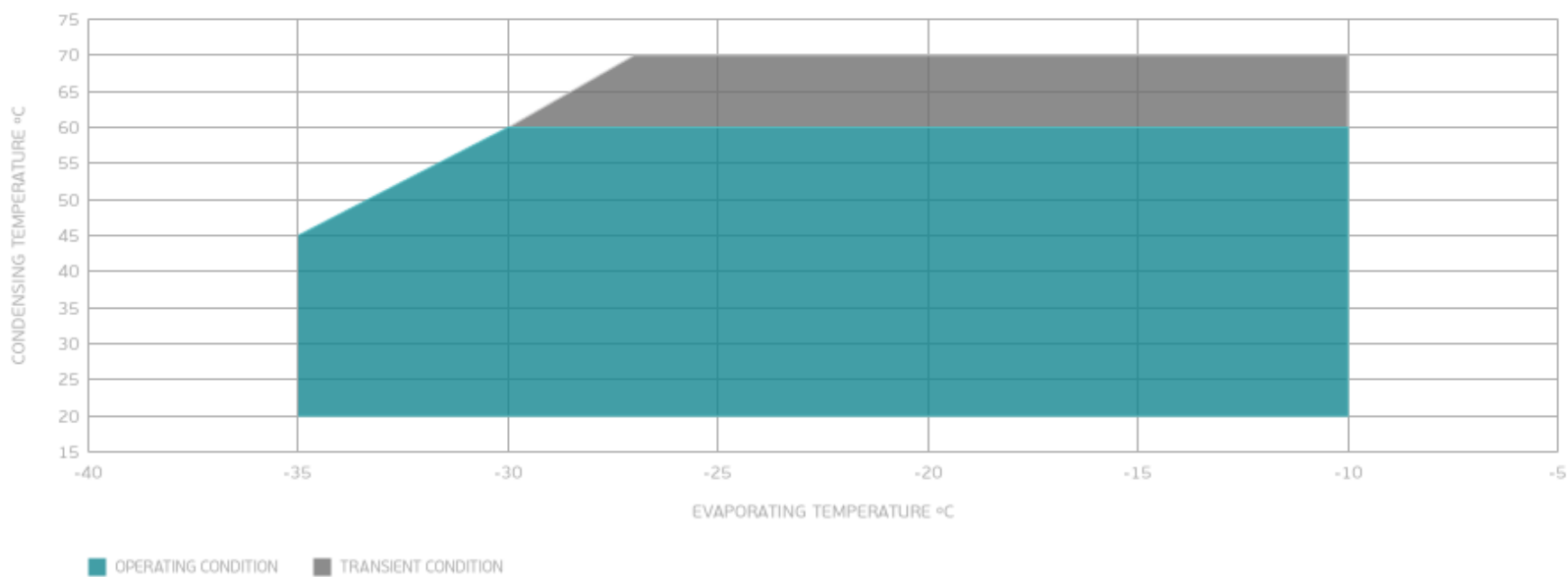
Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

**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	103	1.12	93	-	1.45
-25	138	1.28	109	-	1.95
-20	181	1.43	127	-	2.55
-15	231	1.58	147	-	3.27
-10	290	1.73	168	-	4.11

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

## ENVELOPE



## EXTERNAL DIMENSIONS

