

EMX80CLT



**ENGINEERING CODE**  
513300464



**REFRIGERANT**  
R-600a



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



**APPLICATION**  
LBP



**MOTOR TYPE**  
RSCR



**STANDARD**  
EN12900



**COOLING CAPACITY**  
109 W



**EFFICIENCY**  
1.42 W/W



DATA

GENERAL DATA

Model	EMX80CLT
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
HP	1/7
Starting Torque	LST
Plant	CHINA

ELECTRICAL DATA

Start Winding Resistance	12.43 Ω at 25°C
Run Winding Resistance	13.27 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	6.6 A

## MECHANICAL DATA

Displacement	12.21 cm <sup>3</sup>
Oil Charge	150 ml
Oil Type	ALQUILB
Oil Viscosity	ISO5
Weight	7.9 Kg

## ELECTRICAL COMPONENTS

Run Capacitor	5.0 µf/350 V
CSR CSIR BOX	No
Starting Device Description	TSD-220V0.6 TSD2-220V1.2
Overload Protection	4TM232KFBYY-53 BT73-105A61D3

## PERFORMANCE

### TESTED CONDITIONS

Tested Refrigerant	R-600a
Tested Application	LBP
Tested Standard	EN12900
Tested Cooling	Static
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
40	-35	109	1.42	77	-	1.33

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	119	1.57	76	-	1.39
-30	158	1.79	88	-	1.85
-25	206	2.03	102	-	2.42
-20	264	2.29	116	-	3.10
-15	332	2.58	129	-	3.89
-10	410	2.91	141	-	4.82

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	100	1.29	78	-	1.28
-30	135	1.48	91	-	1.73
-25	179	1.67	107	-	2.28
-20	231	1.86	124	-	2.95
-15	292	2.07	141	-	3.73
-10	362	2.29	158	-	4.65

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	113	1.23	92	-	1.59
-25	151	1.39	109	-	2.12
-20	197	1.54	128	-	2.77
-15	251	1.69	148	-	3.55
-10	314	1.86	169	-	4.46

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

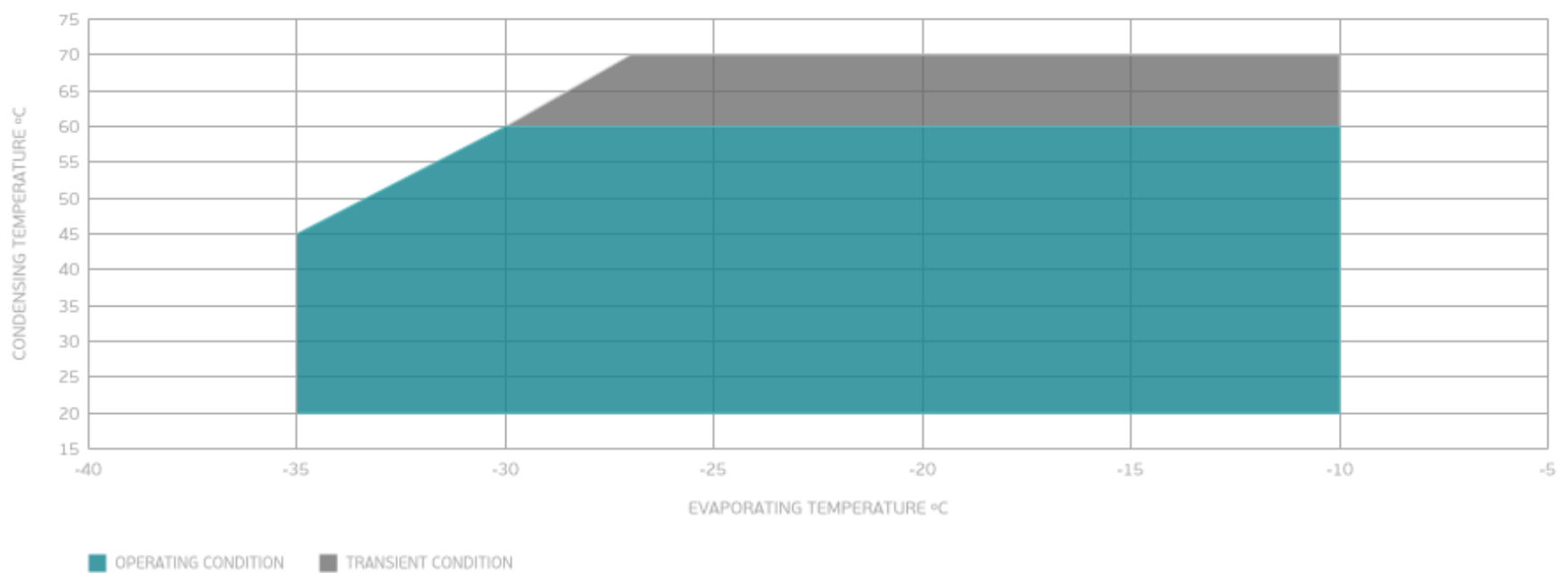
**PERFORMANCE CURVE**

Condensing Temperature 65°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	124	1.15	108	-	1.96
-20	164	1.28	128	-	2.58
-15	211	1.40	151	-	3.34
-10	266	1.52	175	-	4.23

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

**ENVELOPE**



External

## EXTERNAL CHARACTERISTICS

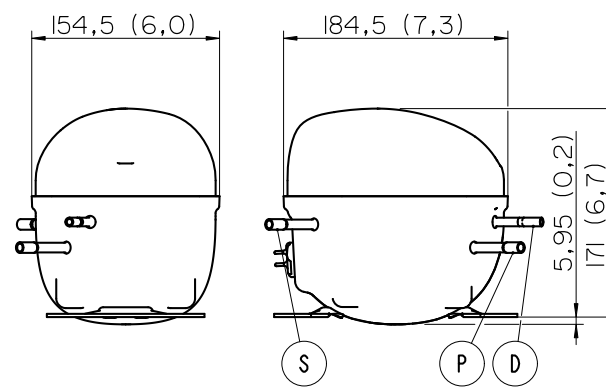
<b>Base Plate</b>		UNI
<b>Tray Holder</b>		NO

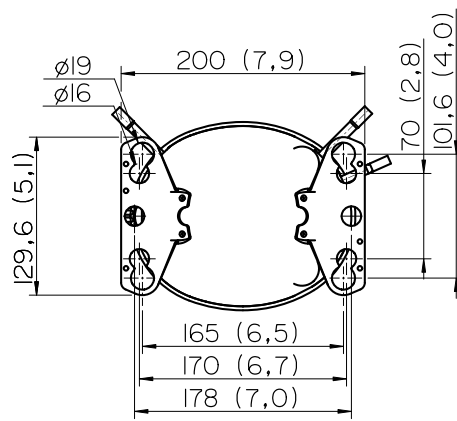
Connector	Internal Diameter	Shape	Material
Suction	6.5 mm	STRAIGHT	COPPER
Discharge	4.94 mm	STRAIGHT	COPPER
Process	6.5 mm	STRAIGHT	COPPER

## EXTERNAL DIMENSIONS

### SHELL



### BASE



### FENCE

