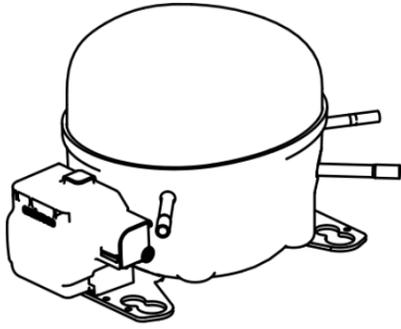


EMX80CLT



**ENGINEERING CODE**  
513300512



**REFRIGERANT**  
R-600a



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



**APPLICATION**  
LBP



**MOTOR TYPE**  
RSCR



**STANDARD**  
ASHRAE



**COOLING CAPACITY**  
61 W



**EFFICIENCY**  
0.53 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

## EXTERNAL CHARACTERISTICS

Base Plate	UNI
Tray Holder	NO

Connector	Internal Diameter	Shape	Material
Suction	6.5 mm	SLANTED 40° UP + 45° TO BACK	COPPER
Discharge	4.94 mm	SLANTED 0° UP + 24° TO BACK	COPPER
Process	6.5 mm	SLANTED 40° UP + 45° TO BACK	COPPER

## PERFORMANCE

### TESTED CONDITIONS

Tested Refrigerant	R-600a
Tested Application	LBP
Tested Standard	ASHRAE
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
54.4	-23.3	61	0.53	115	0.56	0.66

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °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	36	0.48	76	0.40	0.39
-30	48	0.55	88	0.45	0.52
-25	63	0.62	102	0.50	0.68
-20	81	0.70	115	0.56	0.87
-15	101	0.79	129	0.63	1.09
-10	125	0.89	141	0.69	1.35

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °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	33	0.43	77	0.40	0.36
-30	45	0.49	91	0.45	0.48
-25	60	0.56	107	0.52	0.64
-20	77	0.62	124	0.59	0.83
-15	97	0.69	141	0.66	1.05
-10	121	0.76	158	0.74	1.30

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °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	42	0.45	92	0.46	0.45
-25	56	0.51	109	0.53	0.60
-20	72	0.57	128	0.61	0.78
-15	92	0.62	148	0.70	1.00
-10	116	0.68	170	0.79	1.25

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

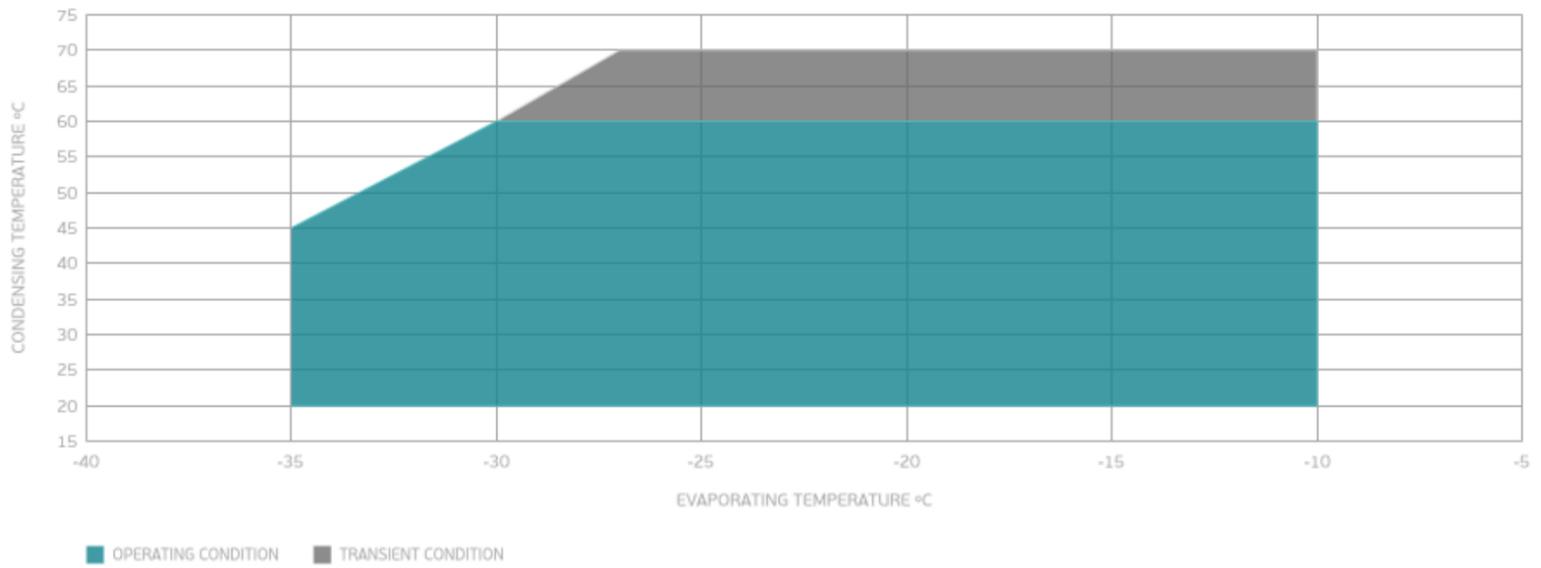
## PERFORMANCE CURVE

Condensing Temperature 65°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	51	0.47	108	0.54	0.55
-20	67	0.52	129	0.63	0.73
-15	87	0.57	151	0.73	0.94
-10	110	0.62	176	0.83	1.18

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

## ENVELOPE



## EXTERNAL DIMENSIONS

