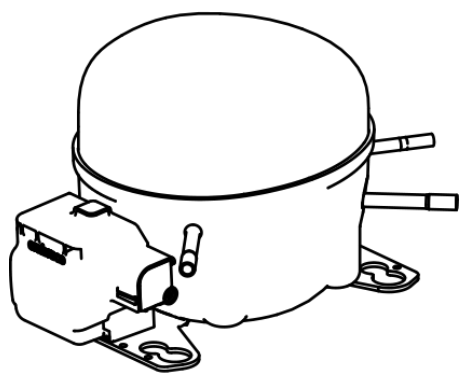


EM2X1121U



**ENGINEERING CODE**  
513300139

**REFRIGERANT**  
R-290

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

**APPLICATION**  
LBP

**MOTOR TYPE**  
RSCR

**STANDARD**  
EN12900

**COOLING CAPACITY**  
148 W

**EFFICIENCY**  
1.41 W/W



DATA

GENERAL DATA

Model	EM2X1121U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
HP	1/3
Starting Torque	LST
Plant	CHINA

ELECTRICAL DATA

Start Winding Resistance	13.6 Ω at 25°C
Run Winding Resistance	12.1 Ω at 25°C

## MECHANICAL DATA

Displacement	5.54 cm <sup>3</sup>
Oil Charge	150 ml
Oil Type	ESTER
Oil Viscosity	ISO10
Weight	8.3 Kg

## ELECTRICAL COMPONENTS

Run Capacitor	5.0 µf/350 V
CSR CSIR BOX	No
Starting Device Description	TSD2-220V TSD2-D-220V
Overload Protection	4TM283KFBYY-73

## EXTERNAL CHARACTERISTICS

Base Plate	UNI EUEM
Tray Holder	NO

Connector	Internal Diameter	Shape	Material
Suction	6.2 mm	SLANTED 40° UP + 45° TO BACK	COPPER
Discharge	4.9 mm	SLANTED 0° UP + 24° TO BACK	COPPER
Process	6.2 mm	SLANTED 40° UP + 45° TO BACK	COPPER

## PERFORMANCE

### TESTED CONDITIONS

Tested Refrigerant	R-290
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	148	1.41	105	-	1.7

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
-40	124	1.37	91	-	1.36
-35	161	1.58	102	-	1.77
-30	205	1.81	114	-	2.26
-25	258	2.07	125	-	2.85
-20	321	2.38	135	-	3.55
-15	393	2.74	143	-	4.38

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
-40	103	1.10	94	-	1.24
-35	135	1.26	107	-	1.63
-30	174	1.45	121	-	2.10
-25	221	1.64	134	-	2.68
-20	276	1.87	148	-	3.36
-15	341	2.12	161	-	4.17

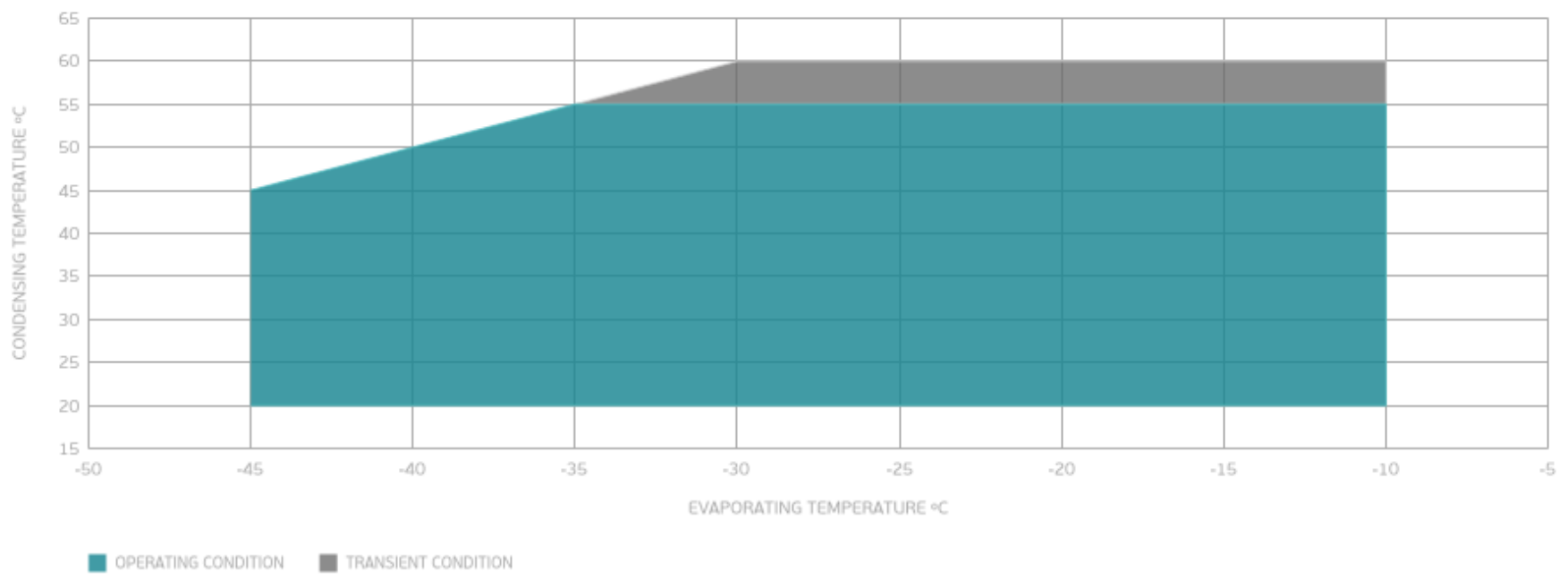
Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

**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
-35	110	1.00	110	-	1.47
-30	143	1.15	125	-	1.92
-25	183	1.30	141	-	2.48
-20	231	1.47	158	-	3.14
-15	288	1.65	174	-	3.93

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

## ENVELOPE



## EXTERNAL DIMENSIONS

