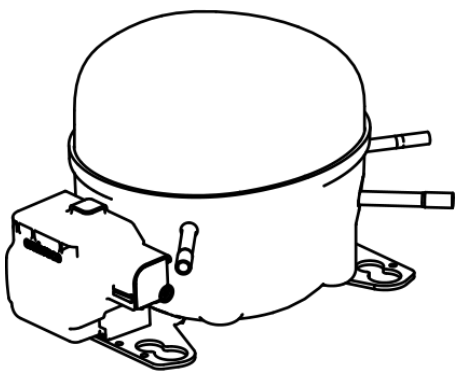
COMPRESSOR TECHNICAL DATA

EMT2121U



ENGINEERING CODE
513300293

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
CSIR

STANDARD
EN12900

COOLING CAPACITY
168 W

EFFICIENCY
1.32 W/W

DATA

GENERAL DATA

Model	EMT2121U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/3-
Starting Torque	HST
Plant	CHINA

ELECTRICAL DATA

Start Winding Resistance	null
Run Winding Resistance	null
Locked Rotor Amperage (LRA) 50Hz	7.7 A

MECHANICAL DATA

Displacement	5.56 cm^3
Oil Charge	180 ml
Oil Type	ALQUILB
Oil Viscosity	ISO22
Weight	7.8 Kg

ELECTRICAL COMPONENTS

Start Capacitor	43-53 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	MTRP-0015*
Overload Protection	4TM276NFBYY-53

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	LBP
Tested Standard	EN12900
Tested Cooling	Fan
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	168	1.32	127	-	1.93

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
-40	144	1.32	109	-	1.58
-35	191	1.56	123	-	2.10
-30	246	1.79	137	-	2.71
-25	307	2.02	152	-	3.39
-20	372	2.25	166	-	4.13
-15	440	2.47	178	-	4.89

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
-40	111	0.96	115	-	1.34
-35	147	1.13	130	-	1.77
-30	192	1.30	147	-	2.32
-25	244	1.48	165	-	2.95
-20	300	1.64	183	-	3.65
-15	360	1.80	200	-	4.40

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

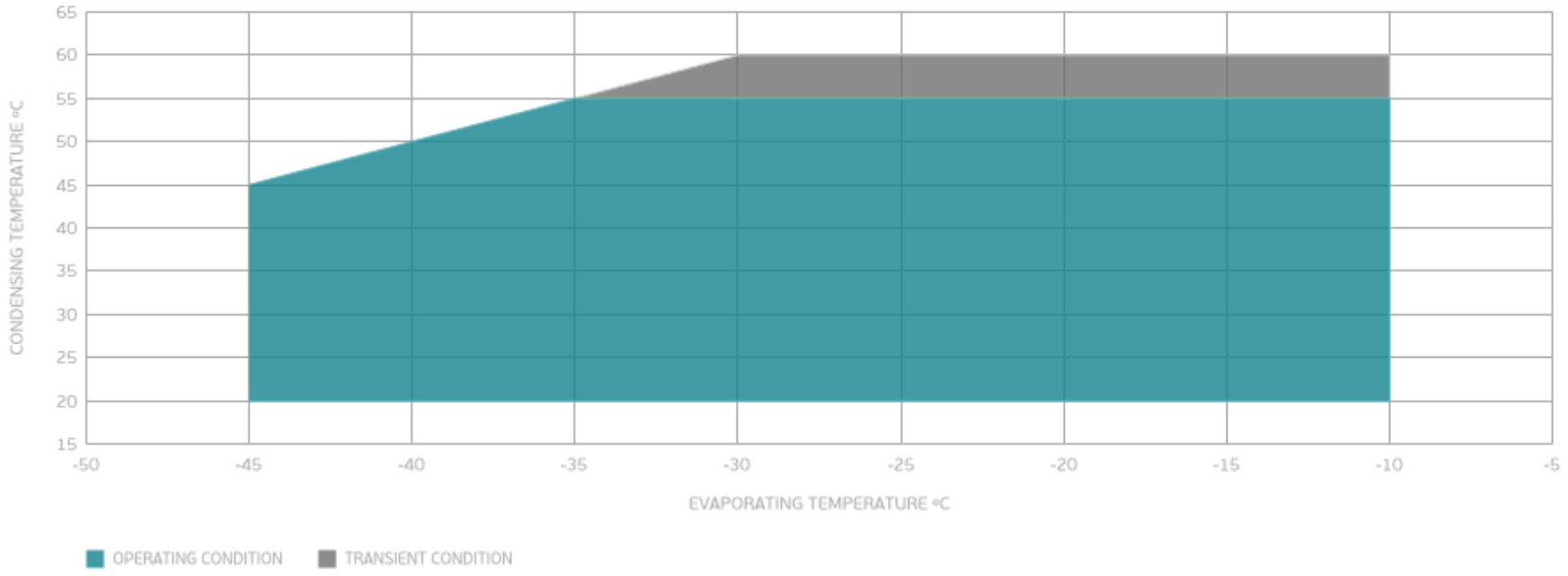
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	112	0.84	133	-	1.50
-30	145	0.96	151	-	1.95
-25	186	1.08	172	-	2.51
-20	232	1.20	193	-	3.15
-15	282	1.32	214	-	3.85

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

ENVELOPE



External

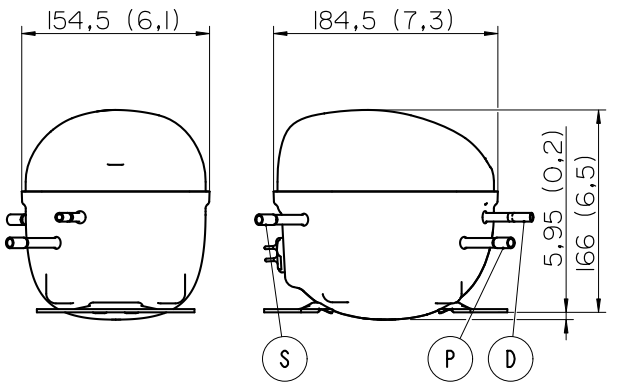
EXTERNAL CHARACTERISTICS

Base Plate	SMALL EUEM
Tray Holder	YES

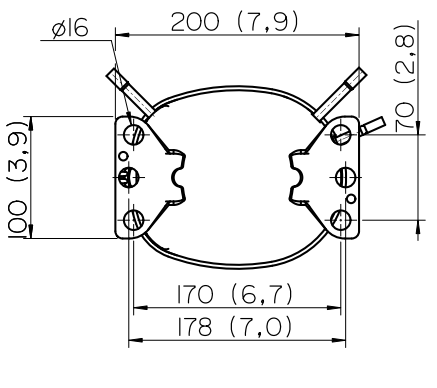
Connector	Internal Diameter	Shape	Material
Suction	6.2 mm	SLANTED 40° UP + 45° TO BACK	COPPER
Discharge	4.9 mm	SLANTED 0° UP + 24° TO BACK	COPPER
Process	6.2 mm	SLANTED 40° UP + 45° TO BACK	COPPER

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE