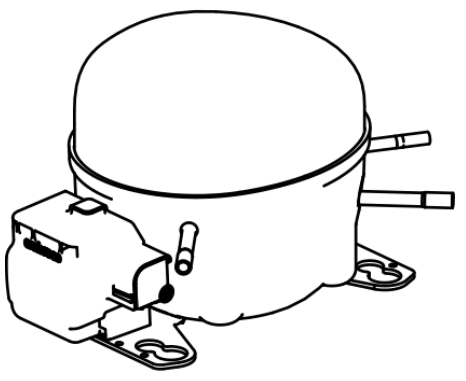
COMPRESSOR TECHNICAL DATA

EMT2130U



ENGINEERING CODE
873AA62

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
CSIR

STANDARD
EN12900

COOLING CAPACITY
192 W

EFFICIENCY
1.1 W/W

DATA

GENERAL DATA

Model	EMT2130U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/2-
Starting Torque	HST
Plant	ITALY

ELECTRICAL DATA

Start Winding Resistance	17.0 Ω at 25°C
Run Winding Resistance	10.0 Ω at 25°C

MECHANICAL DATA

Displacement	6.76 cm^3
Oil Charge	180 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	8 Kg

ELECTRICAL COMPONENTS

Start Capacitor	72-88 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	MTRPH-0025-59*
Overload Protection	T0933/G6

EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	NO

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-290
Tested Application	LBP
Tested Standard	EN12900
Tested Cooling	Fan
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	192	1.1	175	-	2.21

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
-40	160	1.03	155	-	1.75
-35	208	1.22	171	-	2.28
-30	265	1.41	188	-	2.91
-25	332	1.62	205	-	3.66
-20	409	1.86	220	-	4.53
-15	499	2.13	234	-	5.55
-10	600	2.45	245	-	6.73

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	134	0.84	160	-	1.61
-35	177	0.99	178	-	2.13
-30	228	1.15	198	-	2.75
-25	288	1.32	219	-	3.49
-20	358	1.49	240	-	4.36
-15	439	1.69	260	-	5.37
-10	531	1.90	279	-	6.54

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

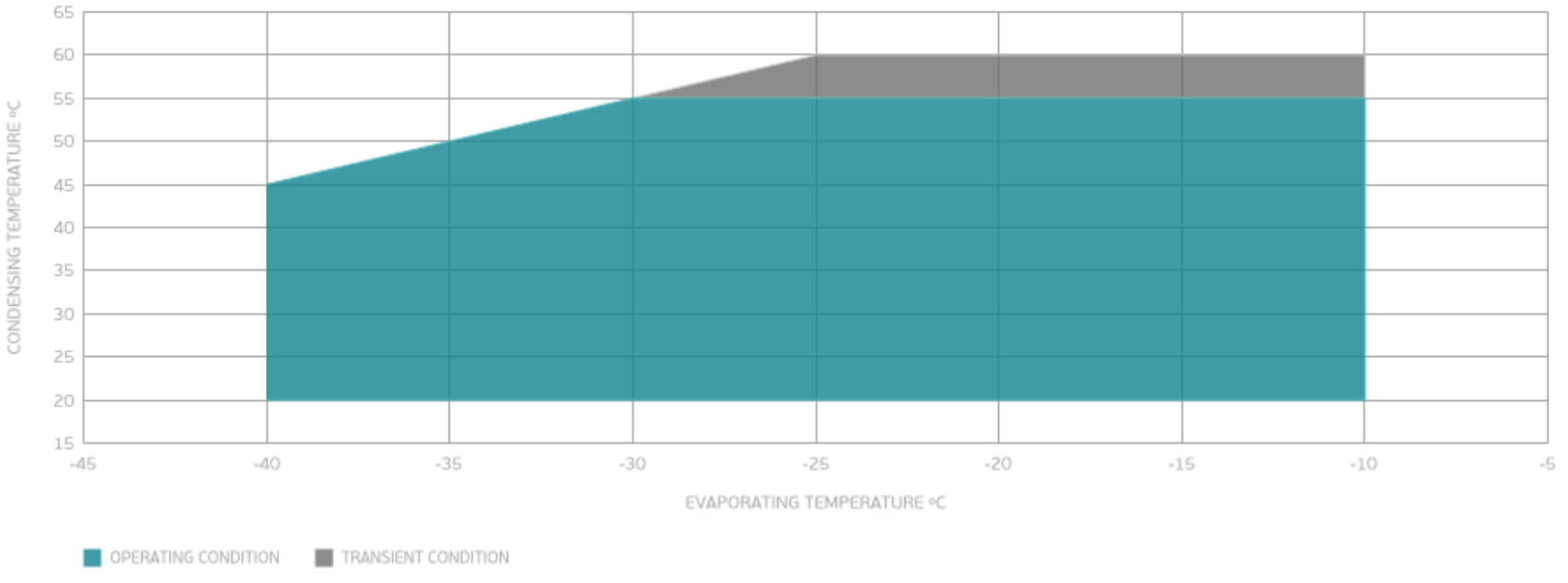
PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	191	0.94	203	-	2.57
-25	244	1.07	228	-	3.30
-20	306	1.21	253	-	4.15
-15	378	1.35	279	-	5.16
-10	460	1.51	304	-	6.32

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

ENVELOPE



EXTERNAL DIMENSIONS

