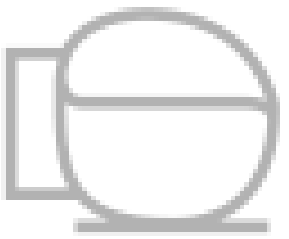
COMPRESSOR TECHNICAL DATA

EMT30CDP



ENGINEERING CODE
895FA57

REFRIGERANT
R-600a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
HBP

MOTOR TYPE
RSIR

STANDARD
EN12900

COOLING CAPACITY
233 W

EFFICIENCY
2.52 W/W

DATA

GENERAL DATA

Model	EMT30CDP
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	HBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
Starting Torque	LST
Plant	ITALY

ELECTRICAL DATA

Start Winding Resistance	31.3 Ω at 25°C
Run Winding Resistance	31.0 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	3.7 A

MECHANICAL DATA

Displacement	4.5 cm^3
Oil Charge	180 ml
Oil Type	ALQUILB
Oil Viscosity	ISO5
Weight	7.2 Kg

ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	PTC
Starting Device Description	V230
Overload Protection	T0224/07

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-600a
Tested Application	HBP
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
50	5	233	2.52	93	-	3.18

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
-15	120	1.97	61	-	1.41
-10	152	2.31	66	-	1.79
-5	189	2.69	70	-	2.23
0	231	3.14	74	-	2.74
5	278	3.72	75	-	3.31
10	332	4.51	74	-	3.97

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
-15	104	1.60	65	-	1.33
-10	133	1.88	71	-	1.70
-5	166	2.16	77	-	2.14
0	204	2.47	83	-	2.64
5	248	2.82	88	-	3.22
10	298	3.26	91	-	3.89

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

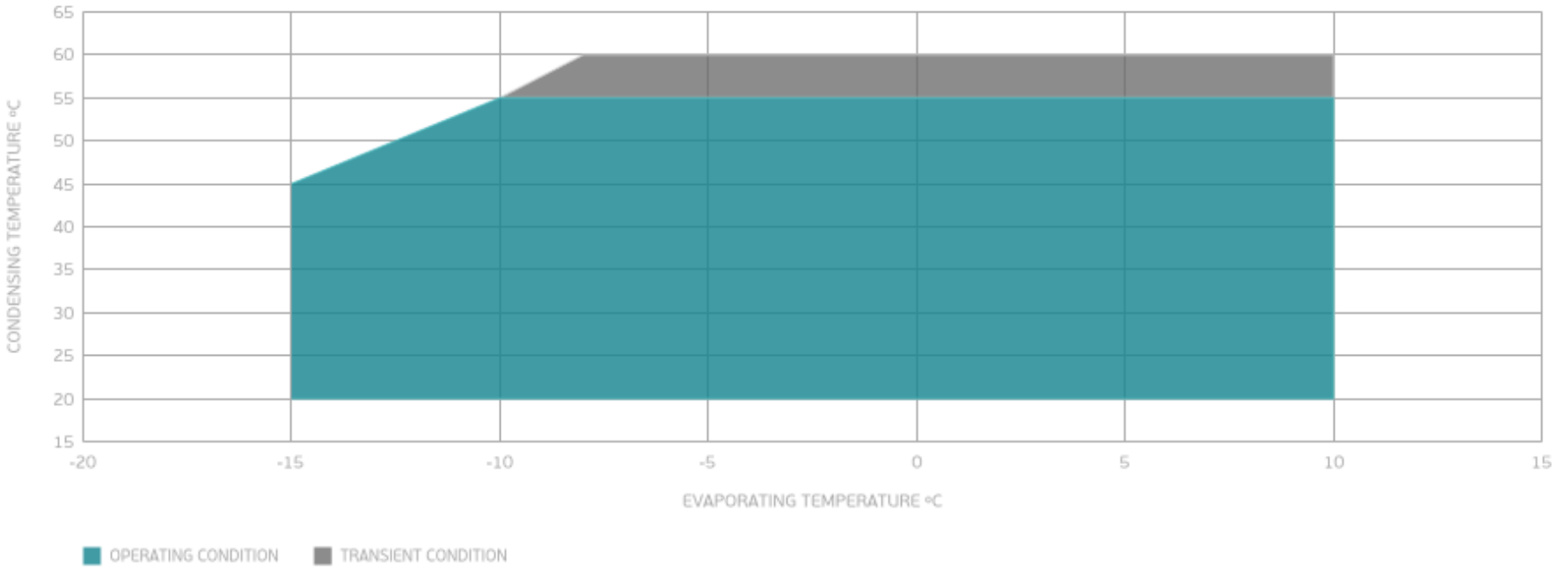
PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	115	1.54	75	-	1.63
-5	145	1.78	81	-	2.06
0	179	2.02	89	-	2.56
5	219	2.27	96	-	3.14
10	264	2.56	103	-	3.80

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

ENVELOPE



EXTERNAL DIMENSIONS

