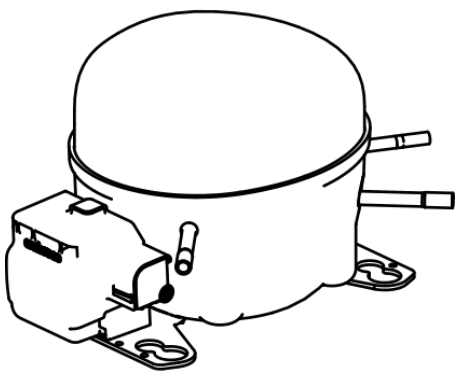
COMPRESSOR TECHNICAL DATA

EMT45CDP



ENGINEERING CODE
896DA57

REFRIGERANT
R-600a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
HBP

MOTOR TYPE
RSIR

STANDARD
EN12900

COOLING CAPACITY
347 W

EFFICIENCY
2.52 W/W

DATA

GENERAL DATA

Model	EMT45CDP
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	HBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
HP	1/8
Starting Torque	LST
Plant	ITALY

ELECTRICAL DATA

Start Winding Resistance	27.1 Ω at 25°C
Run Winding Resistance	17.9 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	5.8 A

MECHANICAL DATA

Displacement	6.78 cm^3
Oil Charge	180 ml
Oil Type	ALQUILB
Oil Viscosity	ISO5
Weight	7.7 Kg

ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	PTC
Starting Device Description	V230
Overload Protection	T0357/07

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	347	2.52	138	-	4.73

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	181	2.10	86	-	2.12
-10	227	2.41	94	-	2.67
-5	282	2.74	103	-	3.33
0	345	3.14	110	-	4.09
5	419	3.64	115	-	4.98
10	503	4.32	116	-	6.01

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	158	1.70	93	-	2.02
-10	199	1.97	101	-	2.56
-5	248	2.22	111	-	3.19
0	305	2.49	122	-	3.94
5	371	2.80	132	-	4.82
10	447	3.18	140	-	5.83

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

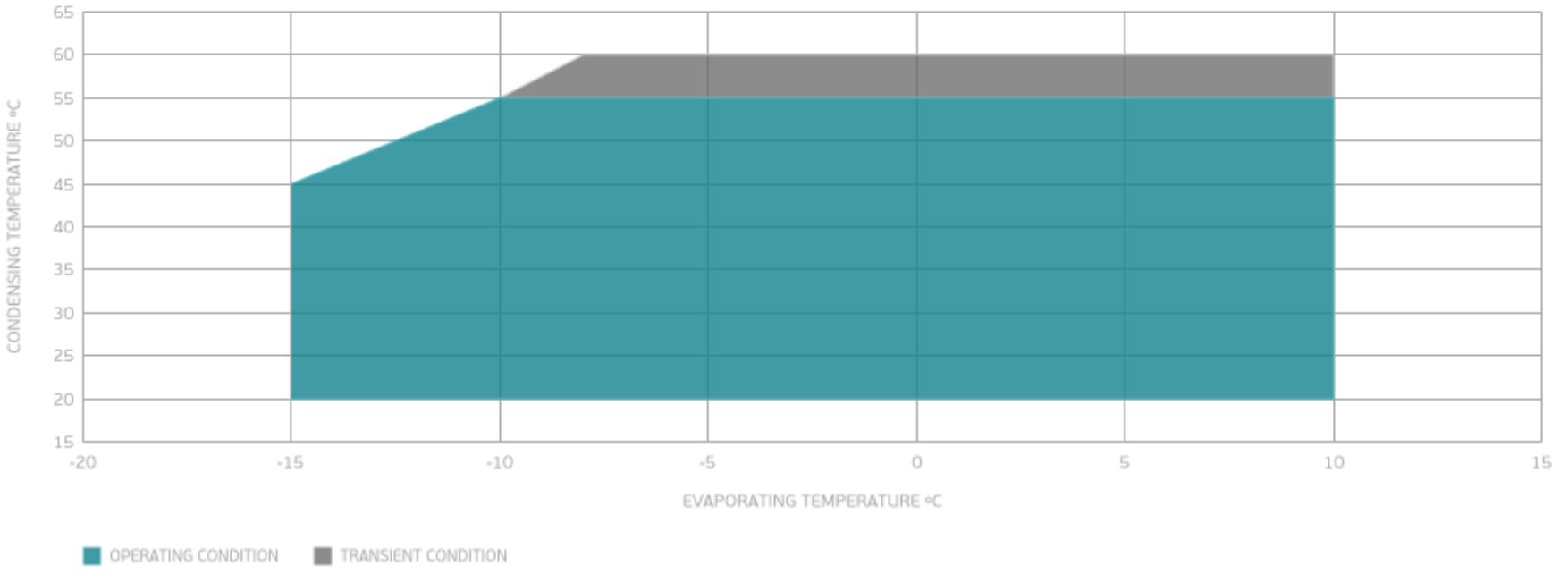
PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	171	1.61	106	-	2.42
-5	214	1.84	116	-	3.04
0	264	2.06	128	-	3.77
5	322	2.28	141	-	4.62
10	389	2.53	154	-	5.61

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

ENVELOPE



EXTERNAL DIMENSIONS

