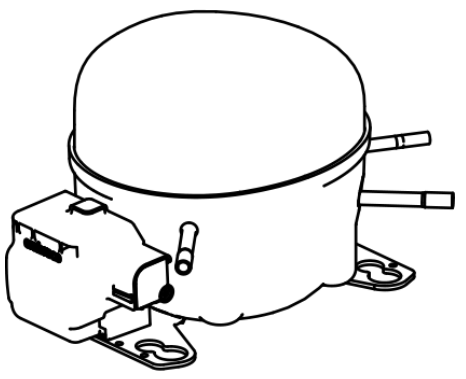
COMPRESSOR TECHNICAL DATA

EMC46CLT



ENGINEERING CODE
710GA98

REFRIGERANT
R-600a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
RSCR

STANDARD
EN12900

COOLING CAPACITY
63 W

EFFICIENCY
1.32 W/W

DATA

GENERAL DATA

Model	EMC46CLT
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
HP	1/7
Starting Torque	LST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	20.2 Ω at 25°C
Run Winding Resistance	30.8 Ω at 25°C

MECHANICAL DATA

Displacement	7.96 cm^3
Oil Charge	150 ml
Oil Type	ALQUILB
Oil Viscosity	ISO2
Weight	7.3 Kg

ELECTRICAL COMPONENTS

Run Capacitor	4.0 µf/350 V
CSR CSIR BOX	No
Starting Device Description	TSD2-220V TSD2-220V1.2 TSD2-D-220V
Overload Protection	4TM197JDBYY-73 CP4TMC190K61A5

EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	YES

Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 42º UP + 45° TO BACK	COPPER
Discharge	5.1 mm	SLANTED 42º UP + 45° TO BACK	COPPER
Process	6 mm	SLANTED 43° UP + 45° TO BACK	COPPER(OD)

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-600a
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	63	1.32	48	-	0.77

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
-35	67	1.43	47	-	0.78
-30	93	1.70	55	-	1.09
-25	127	2.01	63	-	1.49
-20	169	2.35	72	-	1.98
-15	217	2.71	80	-	2.55
-10	271	3.11	87	-	3.19

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
-35	59	1.22	48	-	0.75
-30	82	1.43	57	-	1.04
-25	112	1.66	67	-	1.43
-20	148	1.91	78	-	1.89
-15	191	2.16	88	-	2.44
-10	239	2.42	99	-	3.07

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	69	1.19	58	-	0.97
-25	95	1.38	69	-	1.34
-20	127	1.56	81	-	1.79
-15	164	1.74	94	-	2.31
-10	206	1.92	107	-	2.91

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

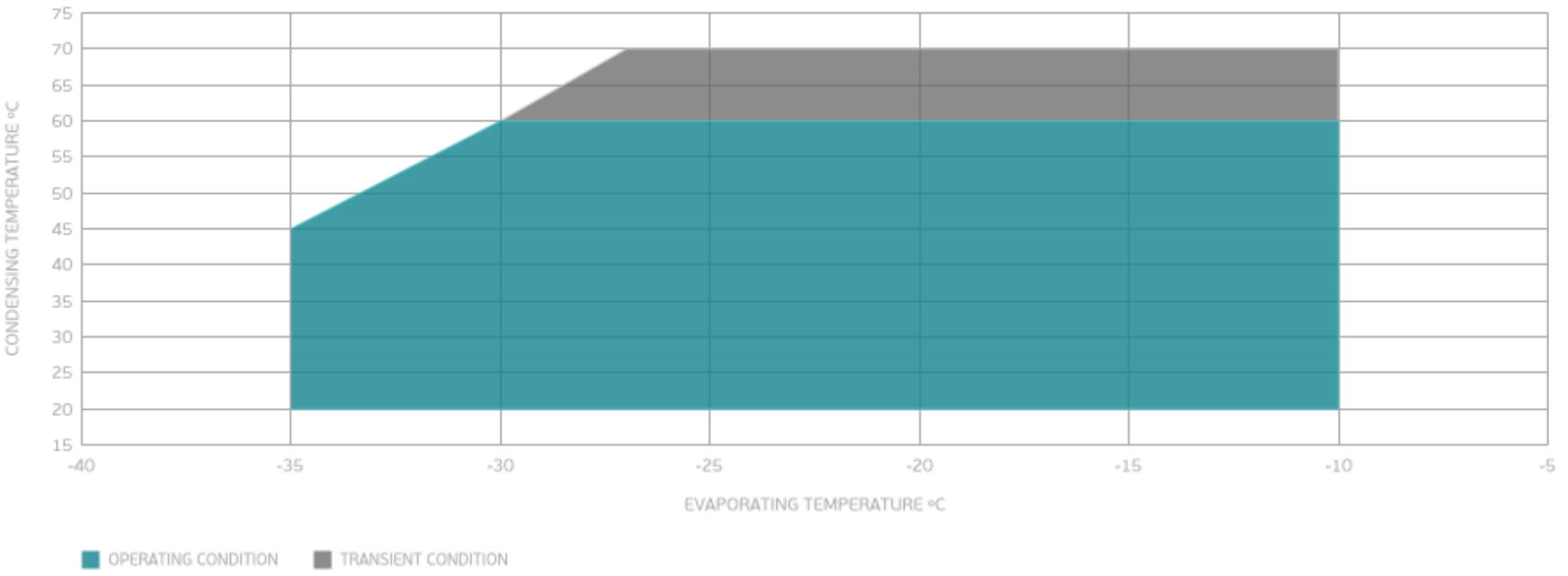
PERFORMANCE CURVE

Condensing Temperature 65ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	77	1.13	68	-	1.21
-20	104	1.28	82	-	1.64
-15	136	1.41	96	-	2.15
-10	172	1.54	112	-	2.72

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

ENVELOPE



EXTERNAL DIMENSIONS

