MODEL
EMX80CLT

APPROVALS

ENGINEERING CODE
701AA72

APPROVED REFRIGERANT
R-600a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
LBP

COOLING CAPACITY
99 W (LBP)

EFFICIENCY
1.06 W/W (LBP)

MOTOR TYPE
RSCR

STARTING TORQUE
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	12.21 cm^3
Compressor Cooling	Static/NotControled/220
Expansion Device	Capillary Tube
Horse Power	1/7 hp
Max Condensing Pressure Operating	8.69 bar
Max Condensing Pressure Peak	10.88 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-35 °C to -10 °C

Electrical Data

Motor type	RSCR
Starting Torque	LST
Start Winding Resistance	18.65 Ω at 25° C
Run Winding Resistance	13.71 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	150 g
Oil Charge	150 ml
Oil Type Configuration	ALQUILB
Oil Type Viscosity	ISO5
Pressurization	Light vacuum
Weight	7.9 Kg
Free Internal Volume	1.5 L

Electrical Components

	Description
Run Capacitor	5
Starting Device	TSD2-220V TSD2-220V1.2 TSD2-D-220V
Motor Protection	4TM276KFBYY-73 4TM739JDBYY CP4TMC288K61A5

External Characteristics

Base Plate	European
Tray Holder	No
Height	171 mm

Connector	Internal Diameter	Shape
Suction	6.1 mm	Slanted 42? up + 45? to Back/Copper
Discharge	4.94 mm	Slanted 0? up + 45? to Back/Copper
Process	6.1 mm	Slanted 45? up + 45? to Back/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
40.00°C	-35.00°C	98 W	93 W	1.34 kg/h	1.06 W/W

Test Condition: EN12900LBP, Static/NotControled/220, Return Gas 20°C, Evaporation -35.00°C, Condensing 40.00°C, Ambient 35°C , Liquid 40°C, Subcooling 0K. Data are an indication of performance based simulation.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-35	86	114	1.44	0.75
-30	126	125	1.91	1
-25	176	138	2.50	1.27
-20	236	152	3.21	1.55
-15	307	166	4.04	1.85
-10	387	179	5.00	2.16

Test Condition: EN12900LBP, Static/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-35	100	83	1.27	1.2
-30	135	97	1.72	1.39
-25	180	112	2.29	1.6
-20	234	129	2.99	1.81
-15	297	146	3.80	2.03
-10	369	163	4.74	2.26

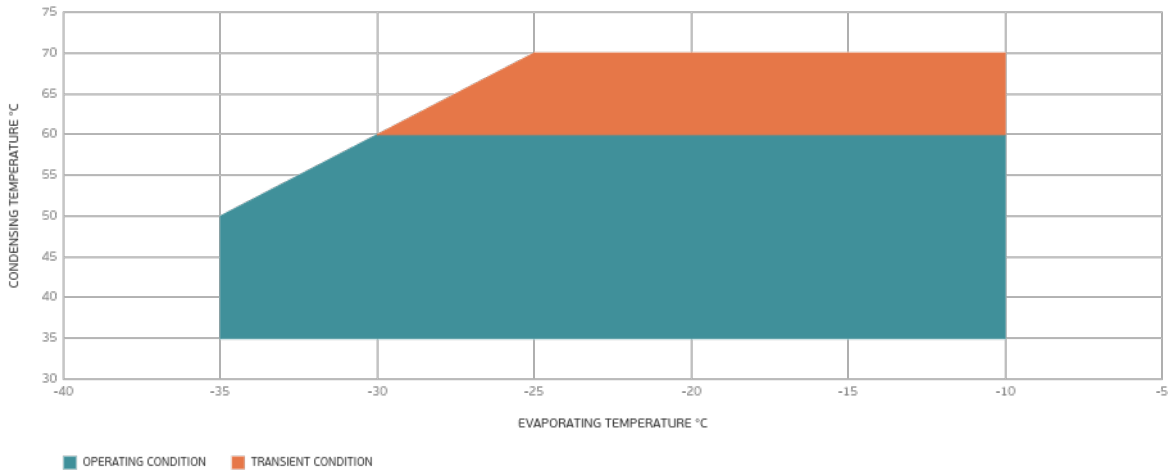
Test Condition: EN12900LBP, Static/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

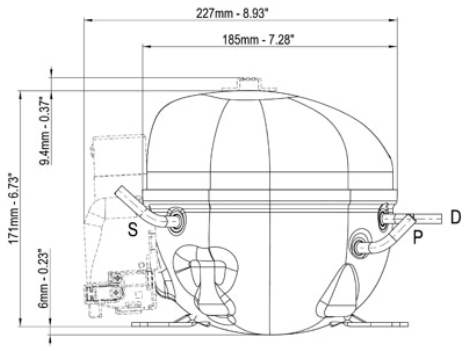
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-35	84	84	1.18	1
-30	114	99	1.61	1.16
-25	153	116	2.15	1.32
-20	200	135	2.82	1.48
-15	256	156	3.62	1.65
-10	320	177	4.53	1.81

Test Condition: EN12900LBP, Static/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

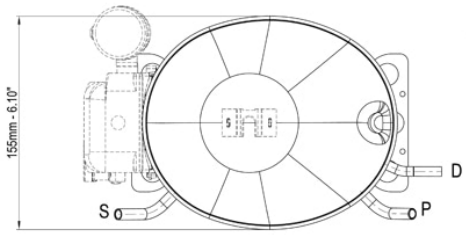
Operating Envelope

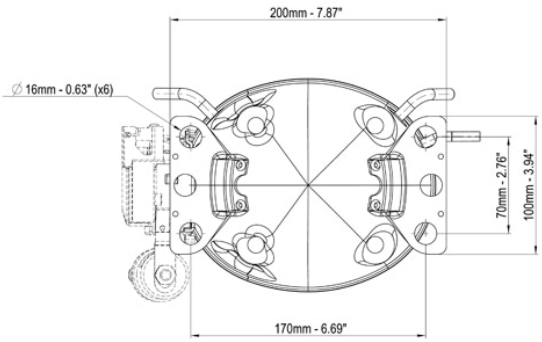


External Dimensions

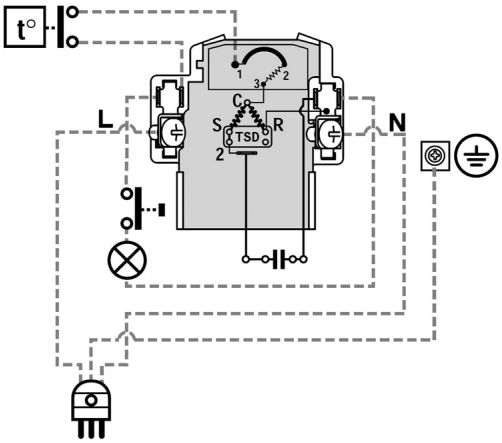


	∅ mm	∅ in	Material
S - Suction	6.10 - 6.20	0.24	Cu
P - Process	6.10 - 6.20	0.24	Cu
D - Discharge	4.90 - 5.02	0.19	Cu





Wiring Diagram



Assembly Instructions