




APPROVALS



 **ENGINEERING CODE**
700MA90


 **APPROVED REFRIGERANT**
R-600a

 **POWER SUPPLY**
220-240 V 50 Hz

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
LBP

 **COOLING CAPACITY**
69 W (LBP)

 **EFFICIENCY**
1.49 W/W (LBP)

 **MOTOR TYPE**
RSCR

 **STARTING TORQUE**
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	7.96 cm ³
Compressor Cooling	Static/NotControlled/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	21.95 Ω at 25° C
Run Winding Resistance	23 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	7.5 Kg
Free Internal Volume	1.5 L

Electrical Components

	Description
Run Capacitor	3
Starting Device	TSD2-220V TSD2-220V1.2
Motor Protection	4TM197JDBYY-73

External Characteristics

Base Plate	European	
Tray Holder	Yes	
Height	166 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 mm	Slanted 43° up + 45° to Back/Copper(OD)

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
40.00°C	-35.00°C	69 W	46 W	0.84 kg/h	1.49 W/W

Test Condition: EN12900LBP, Static/NotControlled/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	75	46	0.88	1.62
-30	101	54	1.18	1.87
-25	134	62	1.57	2.14
-20	173	71	2.02	2.45
-15	218	78	2.56	2.79
-10	271	86	3.20	3.18

Test Condition: EN12900LBP, Static/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. 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	62	46	0.79	1.36
-30	86	55	1.09	1.56
-25	114	64	1.46	1.77
-20	149	75	1.90	2
-15	190	85	2.43	2.24
-10	238	95	3.06	2.5

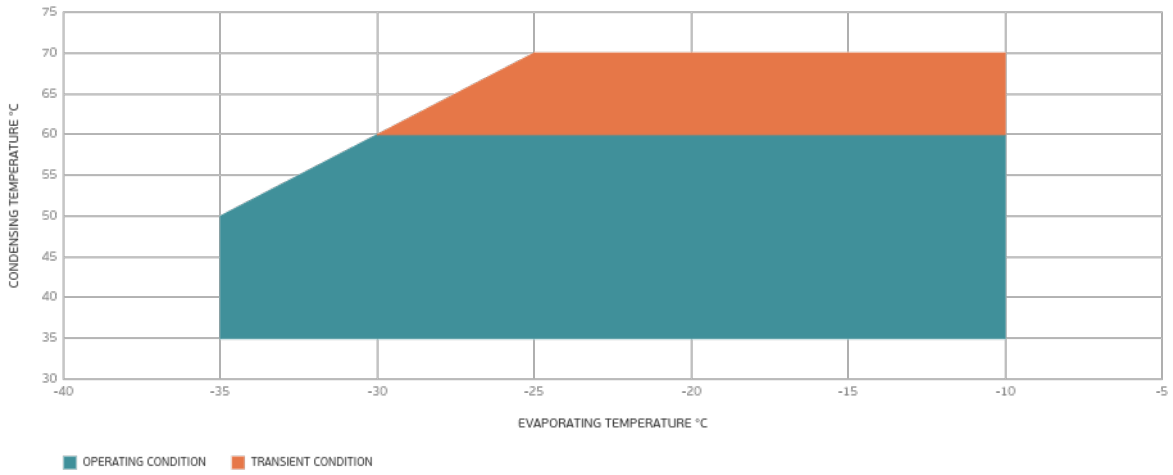
Test Condition: EN12900LBP, Static/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

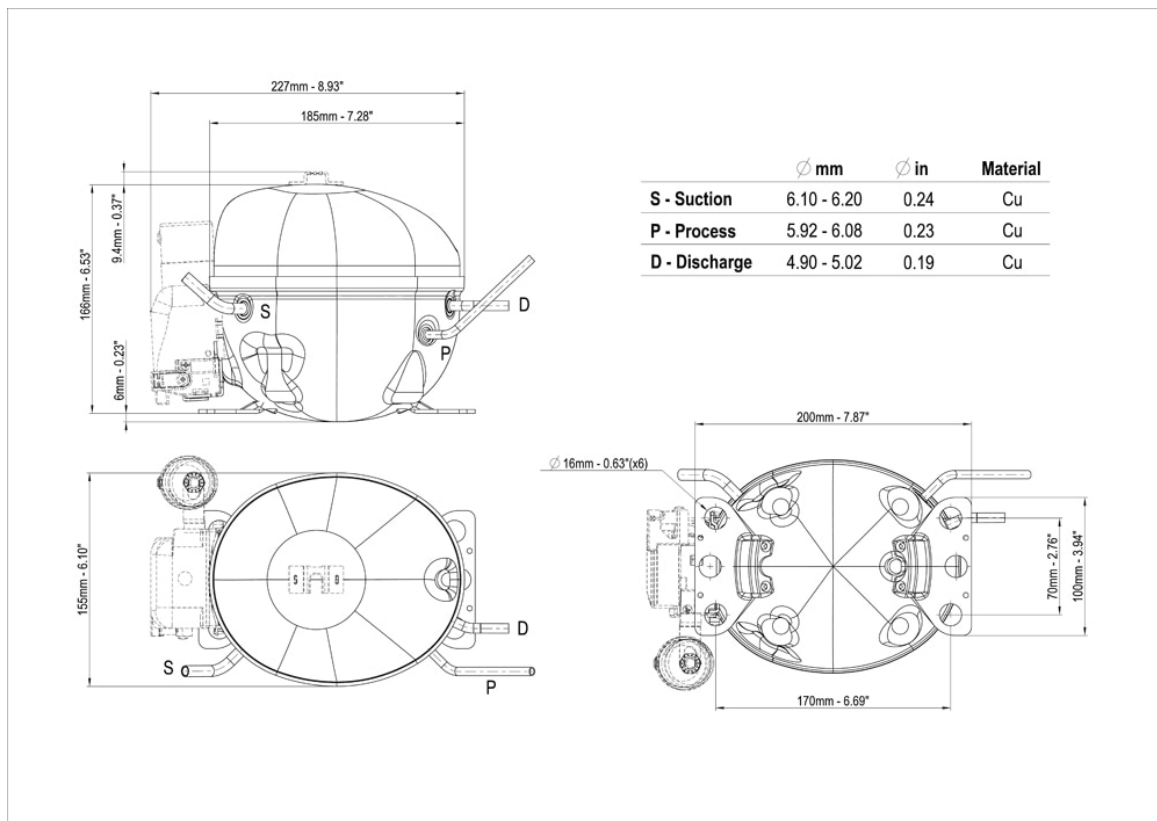
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-35	50	46	0.70	1.09
-30	70	55	0.98	1.27
-25	95	66	1.33	1.44
-20	125	78	1.76	1.62
-15	162	90	2.28	1.8
-10	204	103	2.89	1.98

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

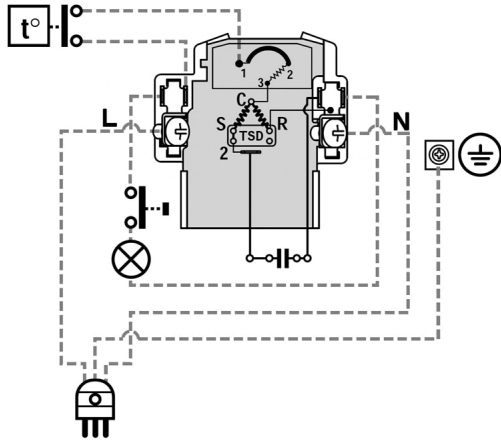
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

