




**APPROVALS**




 **ENGINEERING CODE**  
171AA72


 **APPROVED REFRIGERANT**  
R-134a


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

 **STANDARD CONDITIONS**  
EN12900

 **APPLICATION**  
L/MBP

 **COOLING CAPACITY**  
84 W (LBP)

 **EFFICIENCY**  
1.09 W/W (LBP)

 **MOTOR TYPE**  
RSIR

 **STARTING TORQUE**  
LST

**DATA**

**General Data**

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	6.09 cm <sup>3</sup>
Compressor Cooling	Static/NotControlled/220
Expansion Device	Capillary Tube
Horse Power	1/6 hp
Max Condensing Pressure Operating	13.92 bar
Max Condensing Pressure Peak	15.62 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-35 °C to 5 °C

**Electrical Data**

Motor type	RSIR
Starting Torque	LST
Start Winding Resistance	16.25 Ω at 25° C
Run Winding Resistance	17.6 Ω at 25° C

## Mechanical Data

Maximum Recommended Refrigerant Charge	250 g
Oil Charge	150 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO10
Pressurization	Light vacuum
Weight	7.6 Kg
Free Internal Volume	1.5 L

## Electrical Components

	Description
Starting Device	PTC   V230
Motor Protection	AE19BU8

## External Characteristics

Base Plate	European	
Tray Holder	No	
Height	171 mm	
Connector	Internal Diameter	Shape
Suction	6.1 mm	Slanted 42°/Copper
Discharge	4.94 mm	Straight/Copper
Process	6.1 mm	Slanted 46°/Copper

## PERFORMANCE

## Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
40.00°C	-35.00°C	84 W	77 W	1.79 kg/h	1.09 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 OK. 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	89	81	1.85	1.1
-30	123	94	2.58	1.31
-25	167	107	3.52	1.56
-20	222	120	4.67	1.85
-15	287	132	6.07	2.17
-10	363	144	7.71	2.52
-5	451	155	9.63	2.9
0	551	166	11.84	3.31
5	663	176	14.36	3.76

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	73	81	1.67	0.9
-30	102	95	2.34	1.07
-25	140	110	3.22	1.27
-20	187	126	4.32	1.49
-15	244	142	5.67	1.73
-10	312	158	7.28	1.98
-5	391	174	9.17	2.24
0	481	191	11.36	2.52
5	583	208	13.85	2.8

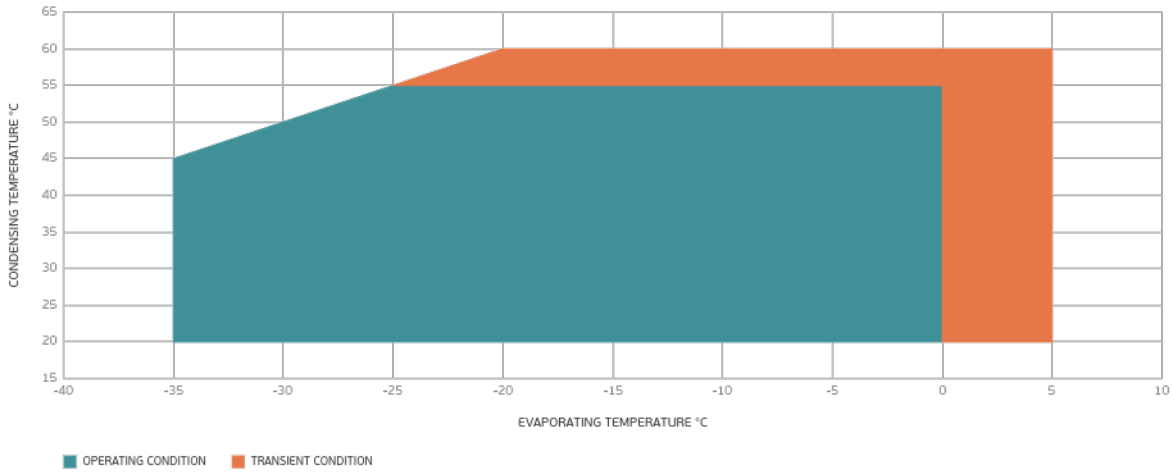
Test Condition: EN12900LBP, Static/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

## Condensing Temperature 55°C

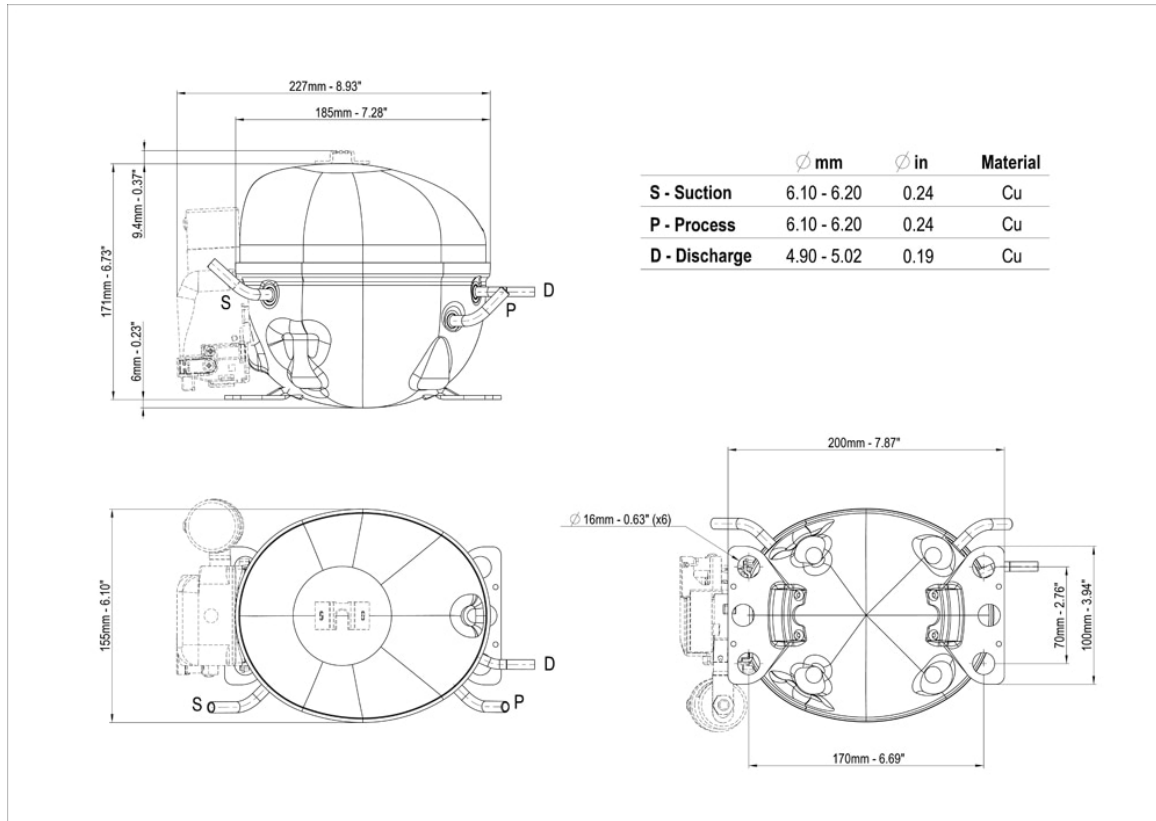
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-25	114	113	2.91	1.01
-20	154	130	3.94	1.19
-15	203	148	5.23	1.37
-10	262	167	6.79	1.57
-5	331	188	8.63	1.76
0	410	209	10.77	1.96
5	500	232	13.24	2.16

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

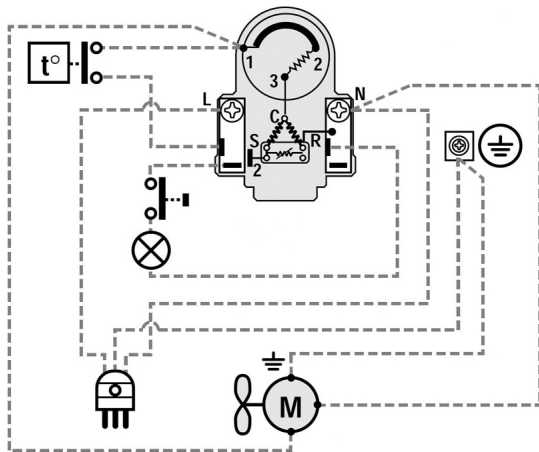
## Operating Envelope



## External Dimensions



## Wiring Diagram



## Assembly Instructions

