



**APPROVALS**




 **ENGINEERING CODE**  
170AA77

 **APPROVED REFRIGERANT**  
R-134a

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

 **STANDARD CONDITIONS**  
EN12900

 **APPLICATION**  
L/MBP

 **COOLING CAPACITY**  
55 W (LBP)

 **EFFICIENCY**  
1.13 W/W (LBP)

 **MOTOR TYPE**  
RSIR

 **STARTING TORQUE**  
LST

DATA

**General Data**

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	3.97 cm <sup>3</sup>
Compressor Cooling	Static/NotControlled/220
Expansion Device	Capillary Tube
Horse Power	1/10 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	20.2 Ω at 25° C
Run Winding Resistance	30.8 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	7.3 Kg
Free Internal Volume	1.5 L

## Electrical Components

	Description
Starting Device	PTC   V230
Motor Protection	AE64FS

## External Characteristics

Base Plate	European	
Tray Holder	Yes	
Height	166 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	55 W	49 W	1.22 kg/h	1.13 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	58	54	1.22	1.08
-30	79	63	1.66	1.25
-25	107	73	2.24	1.45
-20	141	84	2.98	1.69
-15	183	94	3.88	1.96
-10	233	104	4.95	2.23
-5	290	115	6.21	2.53
0	356	126	7.66	2.83
5	430	137	9.31	3.14

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	48	52	1.11	0.92
-30	66	63	1.52	1.05
-25	90	75	2.08	1.21
-20	120	87	2.78	1.38
-15	157	101	3.64	1.56
-10	200	115	4.68	1.75
-5	251	130	5.89	1.94
0	309	146	7.30	2.12
5	375	162	8.90	2.31

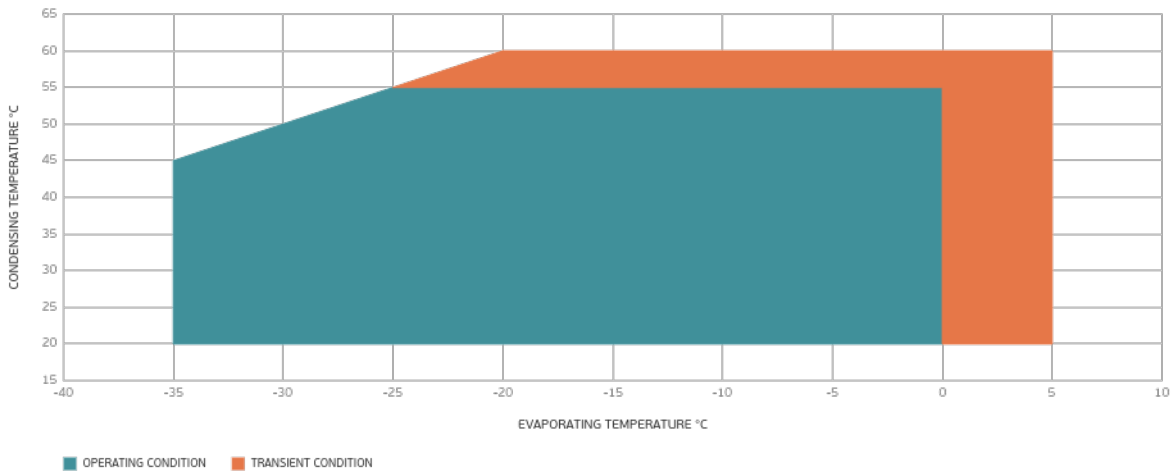
Test Condition: EN12900LBP, Static/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

## Condensing Temperature 55°C

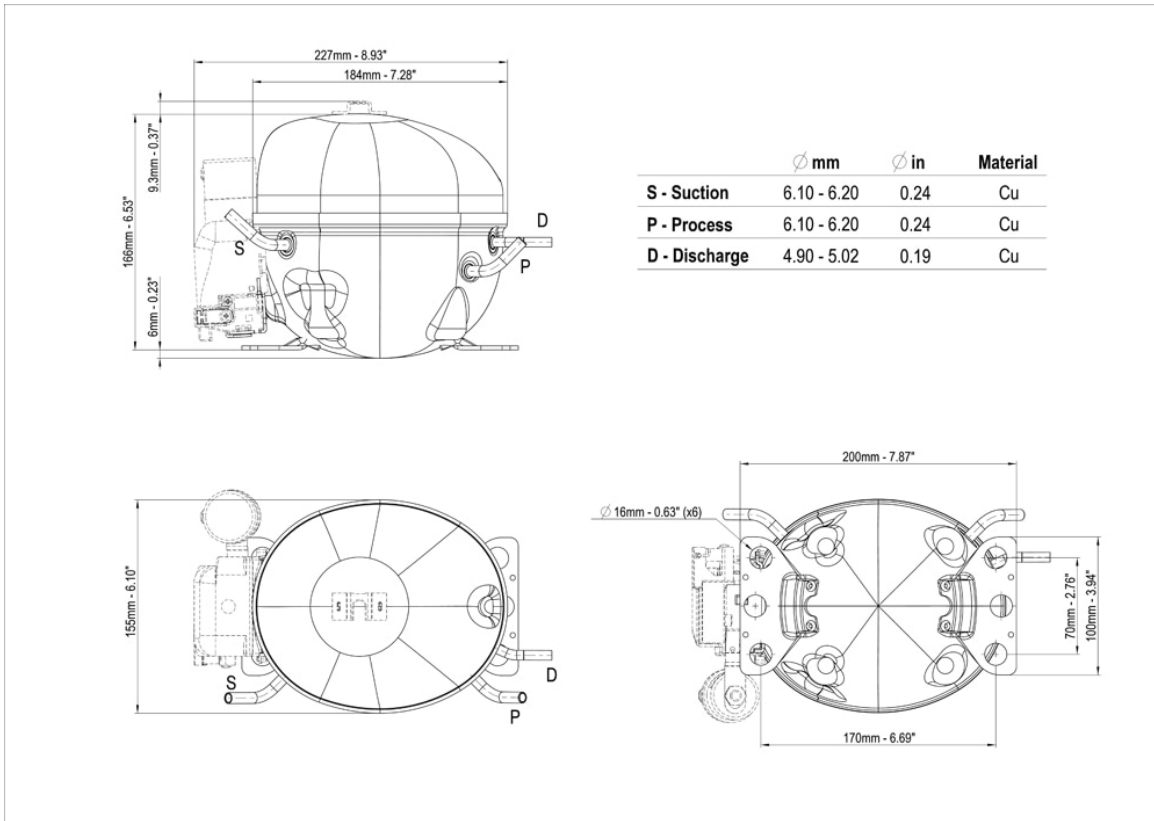
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-25	73	75	1.86	0.96
-20	98	89	2.52	1.1
-15	130	105	3.34	1.24
-10	167	121	4.33	1.38
-5	211	140	5.50	1.5
0	261	160	6.86	1.63
5	318	182	8.41	1.75

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

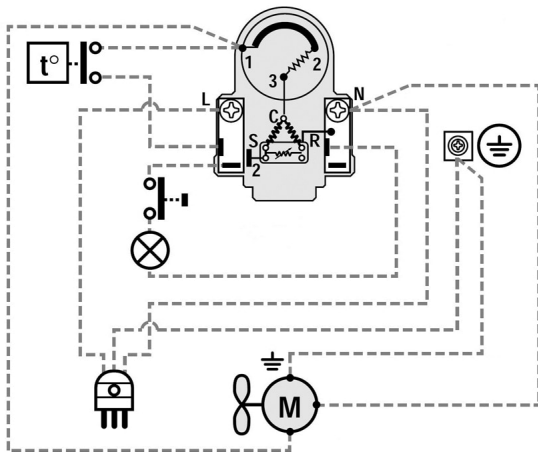
## Operating Envelope



## External Dimensions



## Wiring Diagram



## Assembly Instructions

