



**APPROVALS**



**ENGINEERING CODE**  
710NA90

**APPROVED REFRIGERANT**  
R-600a

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

**STANDARD CONDITIONS**  
EN12900

**APPLICATION**  
L/MBP

**COOLING CAPACITY**  
41 W (LBP)

**EFFICIENCY**  
1.43 W/W (LBP)

**MOTOR TYPE**  
RSCR

**STARTING TORQUE**  
LST

**DATA**

**General Data**

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	5.19 cm <sup>3</sup>
Compressor Cooling	Static/NotControlled/220
Expansion Device	Capillary Tube
Horse Power	1/12 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 5 °C

**Electrical Data**

Motor type	RSCR
Starting Torque	LST
Start Winding Resistance	27.4 Ω at 25° C
Run Winding Resistance	52.2 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	7.1 Kg
Free Internal Volume	1.5 L

## Electrical Components

	Description
Run Capacitor	2
Motor Protection	AX24AHN
Starting Device	PTC   MI2021 V230

## 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	41 W	29 W	0.50 kg/h	1.43 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	43	32	0.51	1.34
-30	60	38	0.70	1.57
-25	81	44	0.95	1.85
-20	107	49	1.26	2.18
-15	138	54	1.62	2.55
-10	173	59	2.04	2.94
-5	213	64	2.51	3.35
0	257	68	3.04	3.77
5	305	73	3.63	4.2

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	36	33	0.46	1.1
-30	51	40	0.65	1.28
-25	69	46	0.88	1.51
-20	92	52	1.18	1.76
-15	120	59	1.53	2.03
-10	151	66	1.94	2.3
-5	187	73	2.40	2.56
0	226	80	2.92	2.82
5	269	88	3.50	3.07

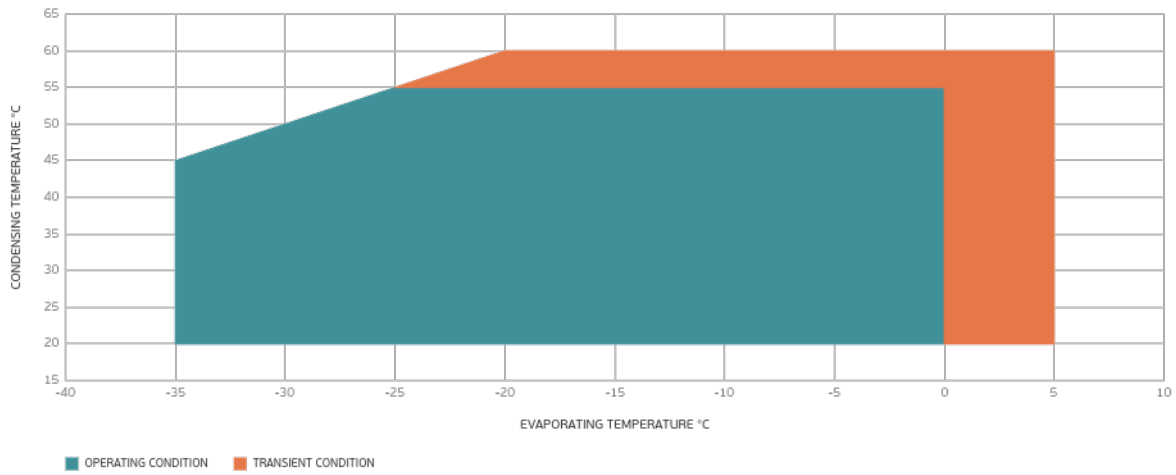
Test Condition: EN12900LBP, Static/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

## Condensing Temperature 55°C

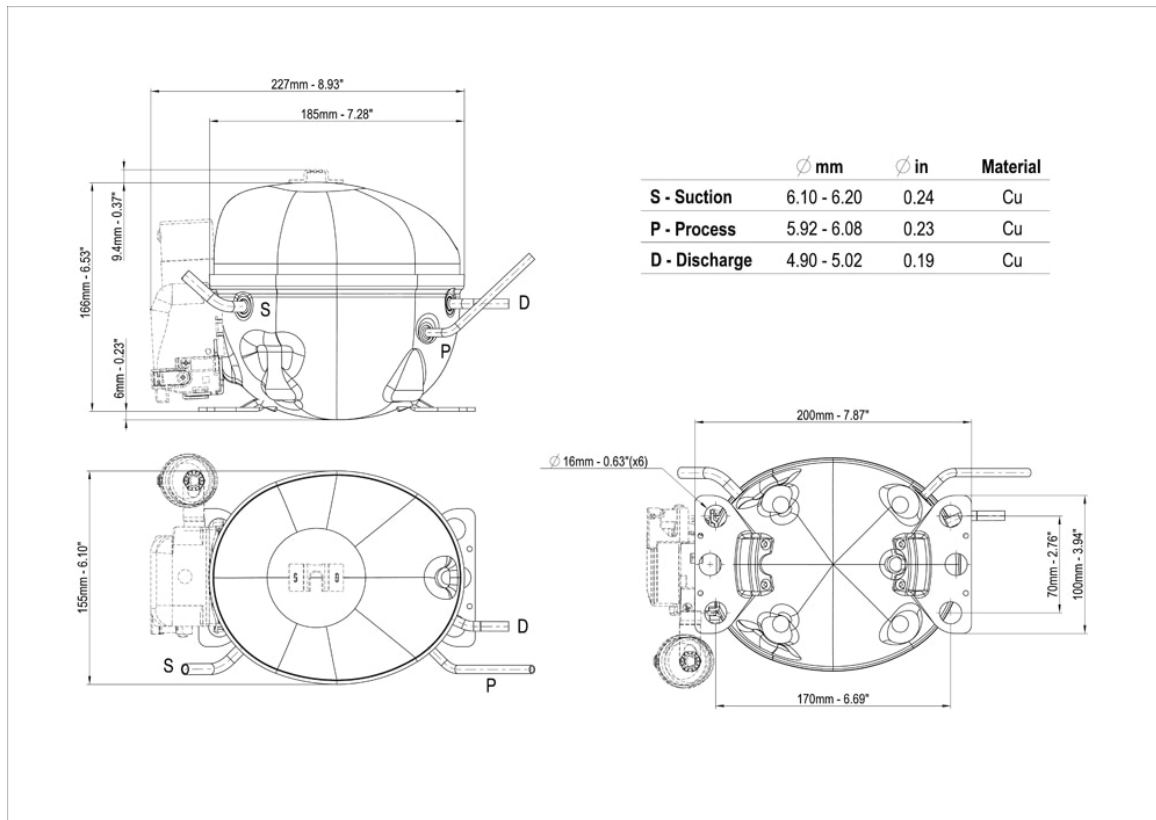
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-25	57	47	0.81	1.23
-20	77	54	1.09	1.43
-15	101	62	1.43	1.63
-10	129	70	1.82	1.83
-5	160	79	2.27	2.01
0	195	89	2.78	2.18
5	233	99	3.34	2.34

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

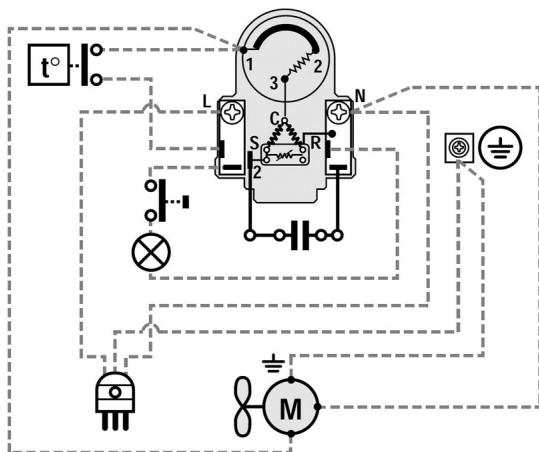
## Operating Envelope



## External Dimensions



## Wiring Diagram



## Assembly Instructions

