


**APPROVALS**




 **ENGINEERING CODE**  
263CA51


 **APPROVED REFRIGERANT**  
R-134a


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

 **STANDARD CONDITIONS**  
ARI 540

 **APPLICATION**  
LBP

 **COOLING CAPACITY**  
302 W (LBP)

 **EFFICIENCY**  
1.05 W/W (LBP)

 **MOTOR TYPE**  
CSIR

 **STARTING TORQUE**  
HST

**DATA**

**General Data**

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	14.28 cm <sup>3</sup>
Compressor Cooling	Fan/NotControlled/220
Fan Air Flow	520 m <sup>3</sup> /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/2 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	-30 °C to -5 °C

**Electrical Data**

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	31.5 Ω at 25° C
Run Winding Resistance	4.8 Ω at 25° C

## Mechanical Data

Maximum Recommended Refrigerant Charge	350 g
Oil Charge	350 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	11.65 Kg
Free Internal Volume	2.1 L

## Electrical Components

	Description
Start Capacitor	53-64 Uf / 330 V
Starting Device	Relay   MTRP-47*
Motor Protection	T0546/G6

## External Characteristics

Base Plate	European	
Tray Holder	No	
Height	206 mm	
Connector	Internal Diameter	Shape
Suction	8.1 mm	Slanted 42°/Copper
Discharge	6.1 mm	Straight/Copper
Process	6.1 mm	Slanted 42°/Copper

## PERFORMANCE

## Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
48.90°C	-23.30°C	302 W	288 W	8.00 kg/h	1.05 W/W

Test Condition: ARILBP, Fan/NotControlled/220, Return Gas 4.4°C, Evaporation -23.30°C, Condensing 48.90°C, Ambient 35°C, Liquid 48.9°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
-30	265	229	6.00	1.15
-25	351	262	7.99	1.34
-20	457	296	10.45	1.54
-15	585	331	13.43	1.77
-10	735	367	16.98	2.01
-5	909	404	21.14	2.25

Test Condition: ARILBP, Fan/NotControlled/220, Return Gas 4.4°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
-30	225	232	5.64	0.97
-25	300	269	7.54	1.11
-20	393	308	9.92	1.28
-15	505	348	12.82	1.45
-10	638	391	16.29	1.63
-5	792	437	20.37	1.81

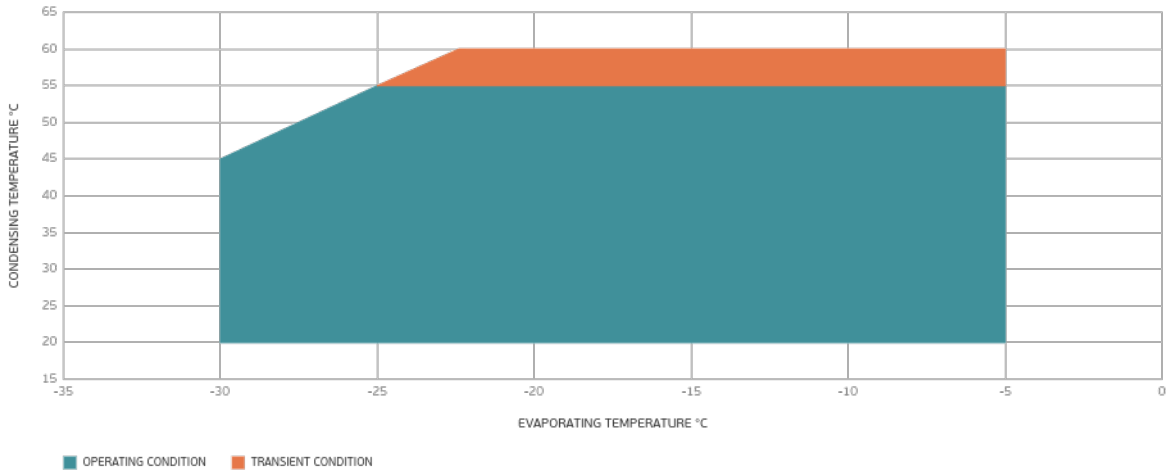
Test Condition: ARILBP, Fan/NotControlled/220, Return Gas 4.4°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

### Condensing Temperature 55°C

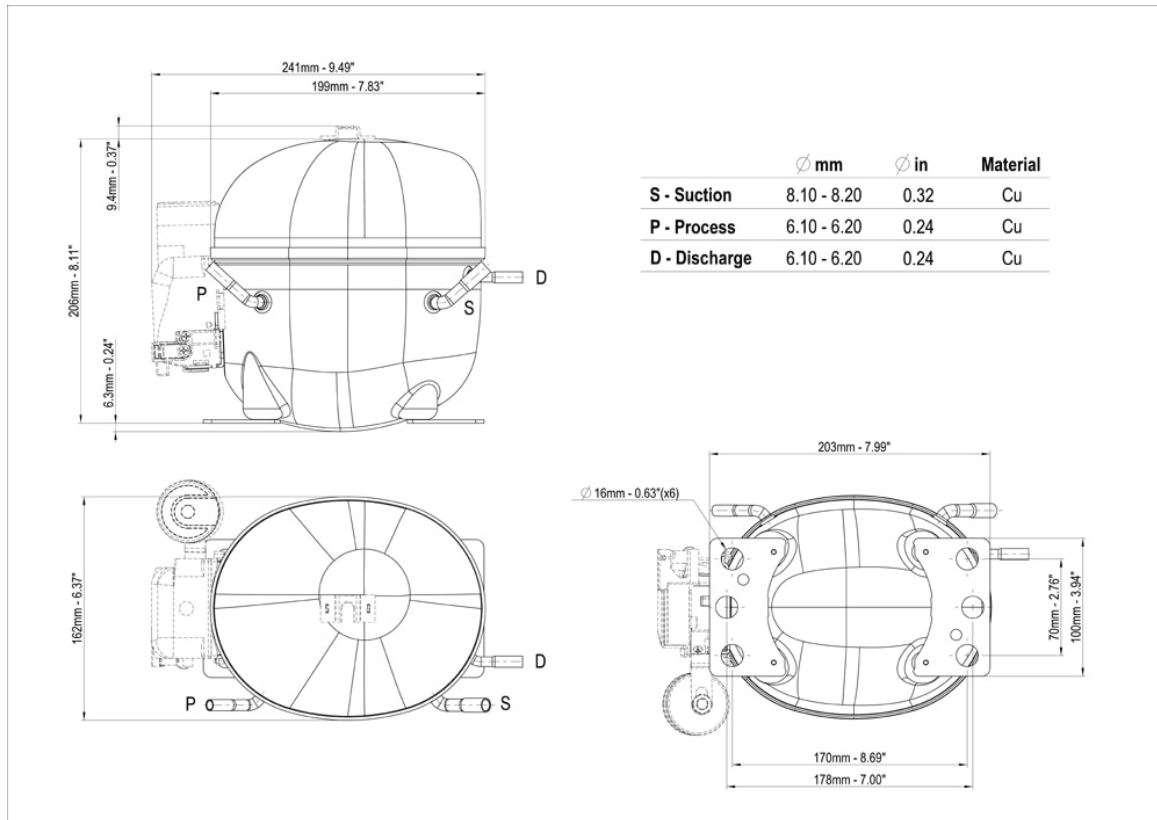
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-25	249	278	7.02	0.9
-20	328	319	9.30	1.03
-15	424	363	12.09	1.17
-10	539	411	15.46	1.31
-5	672	462	19.44	1.45

Test Condition: ARILBP, Fan/NotControlled/220, Return Gas 4.4°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

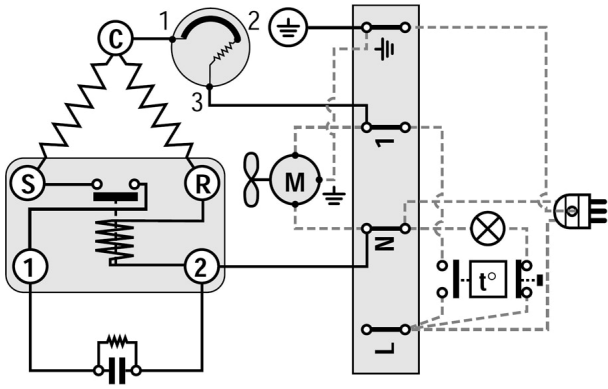
## Operating Envelope



## External Dimensions



## Wiring Diagram



## Assembly Instructions

