




**APPROVALS**




 **ENGINEERING CODE**  
263CA51


 **APPROVED REFRIGERANT**  
R-134a


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

 **STANDARD CONDITIONS**  
ASHRAE

 **APPLICATION**  
LBP

 **COOLING CAPACITY**  
359 W (LBP)

 **EFFICIENCY**  
1.23 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	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	359 W	293 W	2.3 A	6.98 kg/h	1.23 W/W

Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C, Liquid 32.2°C, Subcooling 22.2K. Data in accordance to EN

12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

## Performance Curve Data

### Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	280	229	2.08	5.42	1.22
-25	371	263	2.2	7.19	1.41
-20	483	297	2.31	9.39	1.63
-15	618	331	2.43	12.04	1.86
-10	775	368	2.55	15.16	2.11
-5	957	406	2.69	18.79	2.35

Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

### Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	263	232	2.12	5.09	1.13
-25	351	270	2.23	6.79	1.3
-20	459	309	2.35	8.92	1.49
-15	589	350	2.48	11.49	1.68
-10	744	394	2.63	14.54	1.89
-5	922	440	2.8	18.10	2.09

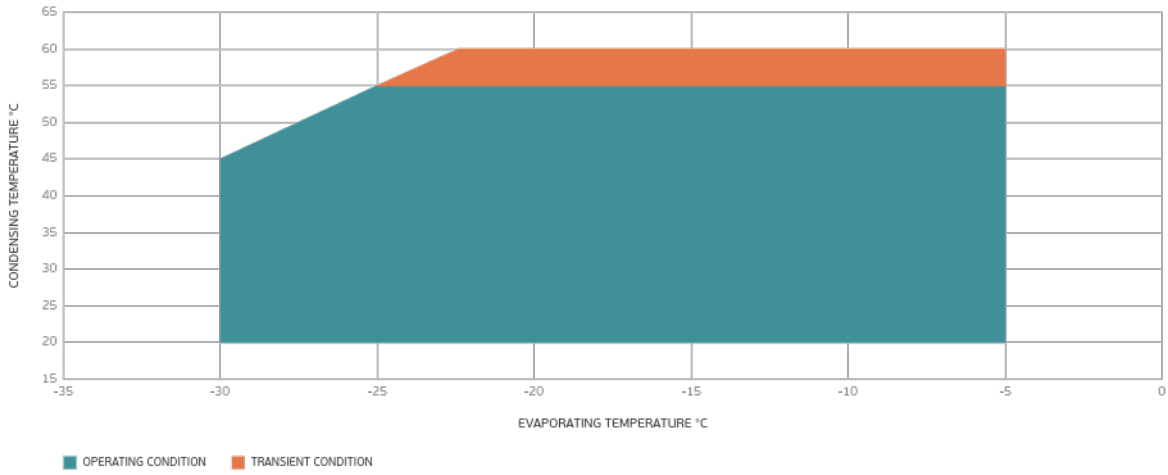
Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

### Condensing Temperature 55°C

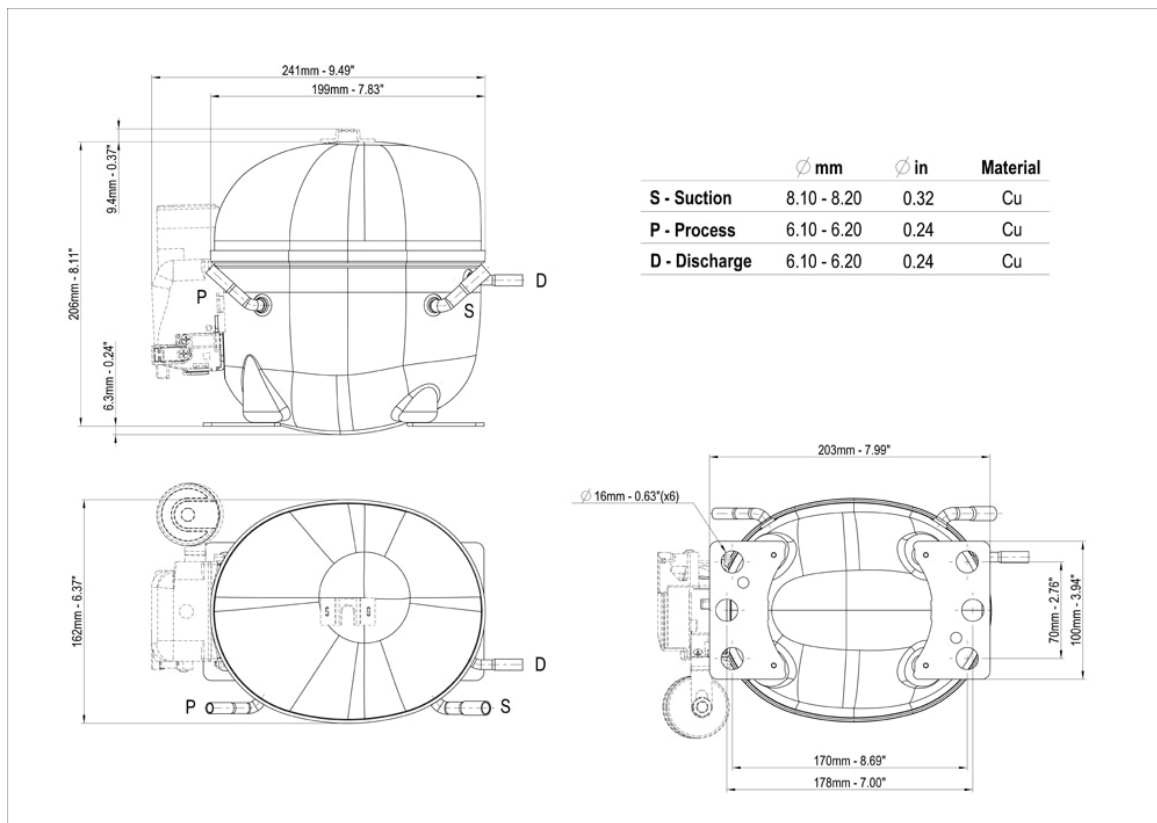
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-25	326	279	2.26	6.33	1.17
-20	430	321	2.39	8.36	1.34
-15	556	366	2.53	10.84	1.52
-10	706	414	2.71	13.80	1.7
-5	880	467	2.91	17.28	1.88

Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

## Operating Envelope



## External Dimensions



## Wiring Diagram



## Assembly Instructions

