



**APPROVALS**




 **ENGINEERING CODE**  
959HA51


 **APPROVED REFRIGERANT**  
R-404A


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

 **STANDARD CONDITIONS**  
ASHRAE

 **APPLICATION**  
LBP

 **COOLING CAPACITY**  
684 W (LBP)

 **EFFICIENCY**  
1.12 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	3/4 hp
Max Condensing Pressure Operating	24.71 bar
Max Condensing Pressure Peak	27.71 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-40 °C to -10 °C

**Electrical Data**

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	13.9 Ω at 25° C
Run Winding Resistance	3.1 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	11.6 Kg
Free Internal Volume	2.1 L

## Electrical Components

	Description
Start Capacitor	88-108 Uf / 330 V
Starting Device	Relay   MTRPH55-59*
Motor Protection	T0645/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	683 W	610 W	4.03 A	15.81 kg/h	1.12 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
-40	327	368	3.46	7.50	0.89
-35	434	419	3.55	9.99	1.04
-30	569	472	3.67	13.14	1.21
-25	732	528	3.81	16.96	1.39
-20	921	586	3.99	21.47	1.57
-15	1139	647	4.19	26.69	1.76
-10	1383	709	4.42	32.65	1.95

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
-35	401	428	3.55	9.20	0.94
-30	529	491	3.69	12.18	1.08
-25	684	559	3.87	15.83	1.22
-20	867	631	4.09	20.16	1.37
-15	1076	707	4.35	25.19	1.52
-10	1314	789	4.65	30.94	1.67

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

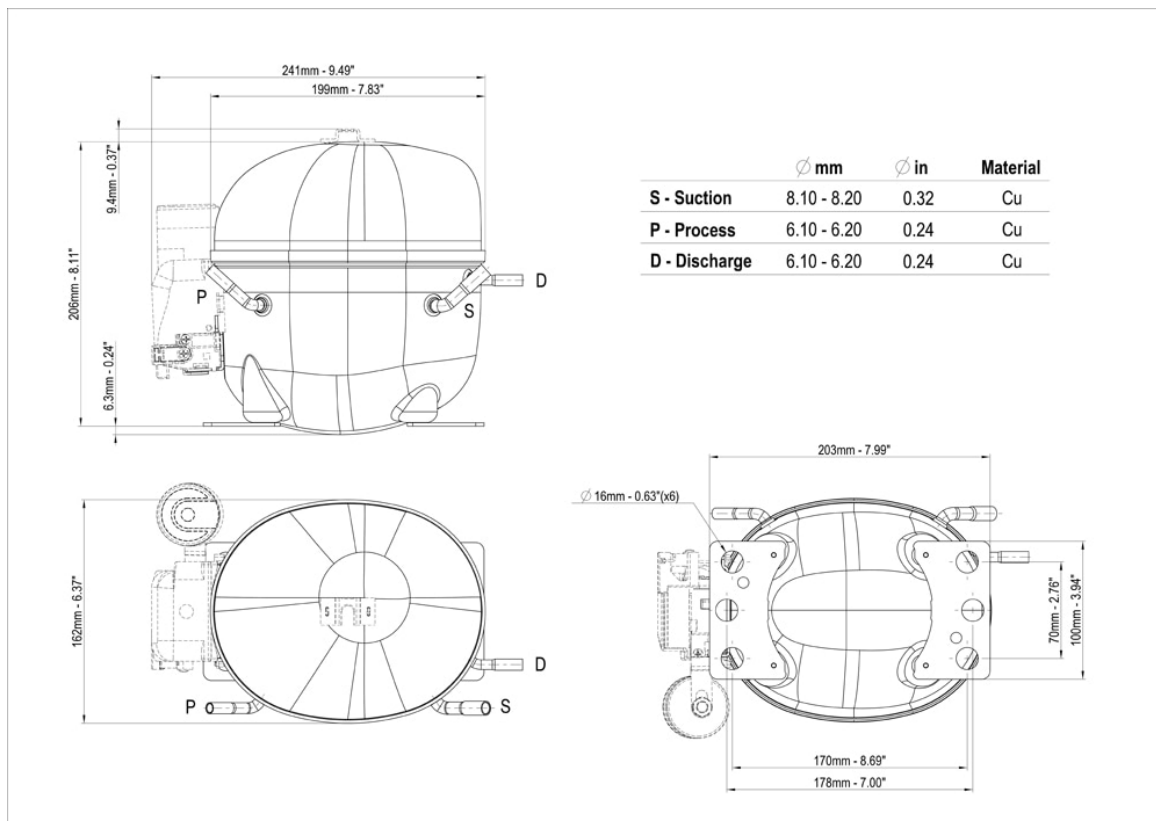
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	479	506	3.73	11.01	0.95
-25	626	583	3.95	14.45	1.07
-20	800	667	4.21	18.57	1.2
-15	1001	757	4.53	23.38	1.32
-10	1229	854	4.9	28.90	1.44

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

