



**APPROVALS**




 **ENGINEERING CODE**  
959HA51


 **APPROVED REFRIGERANT**  
R-404A

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

 **STANDARD CONDITIONS**  
ASHRAE

 **APPLICATION**  
LBP

 **COOLING CAPACITY**  
708 W (LBP)

 **EFFICIENCY**  
1.29 W/W (LBP)

 **MOTOR TYPE**  
CSCR

 **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	CSCR
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
Run Capacitor	10
CSR / CSIR Box	YES
Motor Protection	T0634/G9
Starting Device	3ARR3B6AC3

## 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	708 W	550 W	2.98 A	16.38 kg/h	1.29 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	334	341	2.41	7.65	0.98
-35	444	387	2.51	10.22	1.15
-30	583	434	2.63	13.45	1.34
-25	749	483	2.78	17.37	1.55
-20	945	534	2.94	22.03	1.77
-15	1170	586	3.13	27.44	2
-10	1425	639	3.34	33.63	2.23

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	412	393	2.49	9.45	1.05
-30	544	449	2.64	12.53	1.21
-25	704	508	2.82	16.29	1.39
-20	893	570	3.04	20.77	1.57
-15	1111	635	3.29	26.00	1.75
-10	1359	704	3.56	32.01	1.93

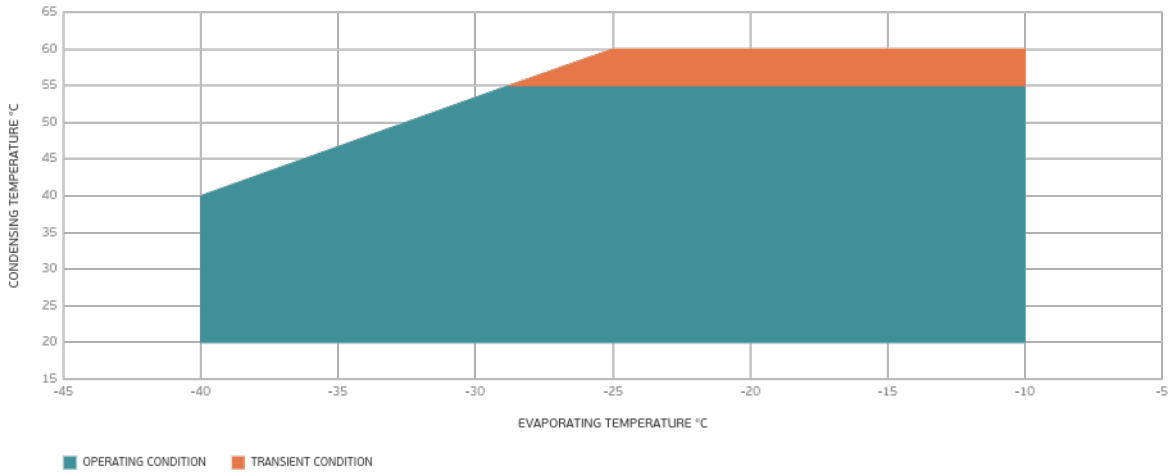
Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

### Condensing Temperature 55°C

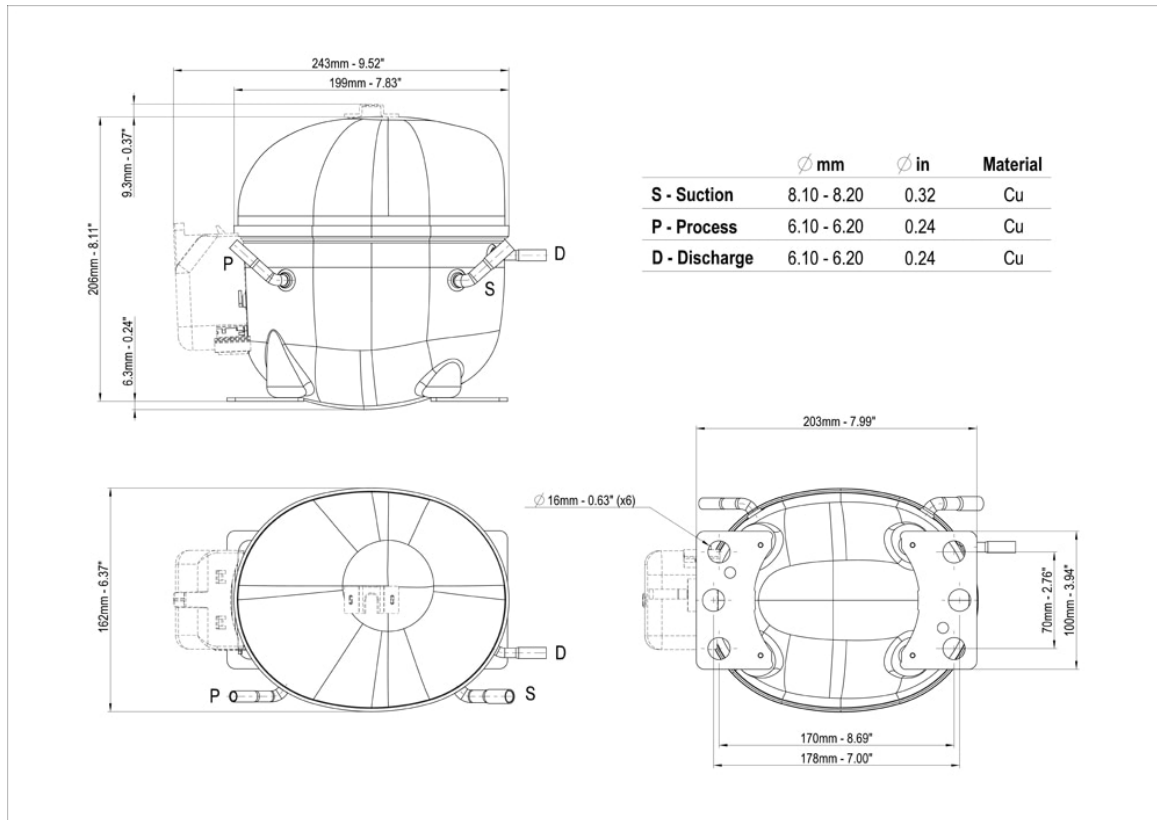
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	496	461	2.69	11.41	1.08
-25	649	527	2.9	14.98	1.23
-20	830	598	3.16	19.26	1.39
-15	1040	672	3.45	24.28	1.55
-10	1279	752	3.78	30.07	1.7

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.

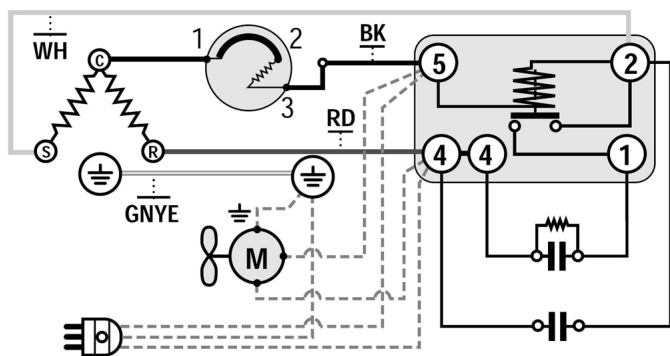
## Operating Envelope



## External Dimensions



## Wiring Diagram



## Assembly Instructions

