



**APPROVALS**




 **ENGINEERING CODE**  
959HD71

 **APPROVED REFRIGERANT**  
R-404A

 **POWER SUPPLY**  
208-230 V 60 Hz

 **STANDARD CONDITIONS**  
ASHRAE

 **APPLICATION**  
LBP

 **COOLING CAPACITY**  
813 W (LBP)

 **EFFICIENCY**  
1.35 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/Controlled/208
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	208-230 V 60 Hz
Evaporating Temperature Range	-40 °C to -10 °C

**Electrical Data**

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	8.21 Ω at 25° C
Run Winding Resistance	2.64 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	11.7 Kg
Free Internal Volume	2.1 L

## Electrical Components

	Description
Start Capacitor	88-108 Uf / 330 V
Run Capacitor	10
CSR / CSIR Box	YES
Starting Device	RVA4L3C-566
Motor Protection	MST24AJK-3261

## External Characteristics

Base Plate	Universal	
Tray Holder	No	
Height	206 mm	
Connector	Internal Diameter	Shape
Suction	8.03 mm	Slanted 42°/Copper
Discharge	6.45 mm	Straight/Copper
Process	6.45 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	813 W	604 W	3.26 A	18.80 kg/h	1.35 W/W

Test Condition: ASHRAELBP32, Fan/Controlled/208, 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	379	354	2.14	8.70	1.07
-35	506	411	2.38	11.64	1.23
-30	664	470	2.64	15.33	1.41
-25	854	533	2.92	19.80	1.6
-20	1078	599	3.23	25.11	1.8
-15	1336	669	3.57	31.32	2
-10	1630	742	3.93	38.49	2.2

Test Condition: ASHRAELBP32, Fan/Controlled/208, 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	469	416	2.42	10.77	1.13
-30	621	486	2.72	14.31	1.28
-25	805	560	3.05	18.63	1.44
-20	1023	639	3.42	23.78	1.6
-15	1274	722	3.81	29.81	1.76
-10	1561	810	4.23	36.78	1.93

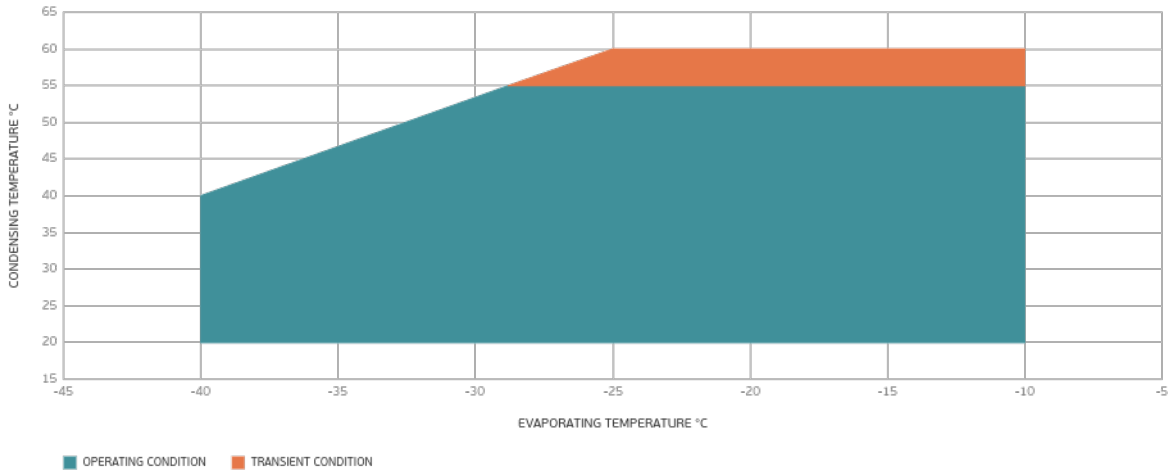
Test Condition: ASHRAELBP32, Fan/Controlled/208, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

### Condensing Temperature 55°C

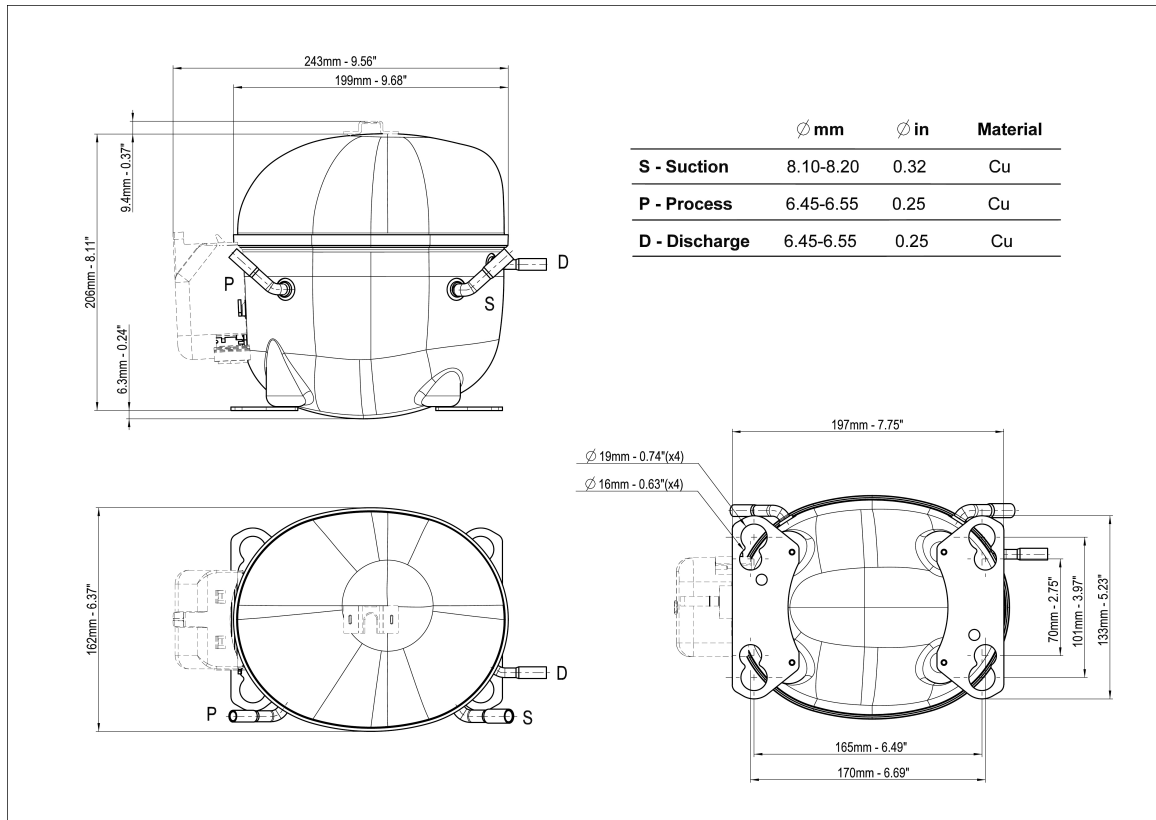
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	567	493	2.74	13.04	1.15
-25	744	575	3.13	17.18	1.29
-20	954	663	3.55	22.14	1.44
-15	1198	757	4	27.97	1.58
-10	1477	857	4.5	34.72	1.72

Test Condition: ASHRAELBP32, Fan/Controlled/208, 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.

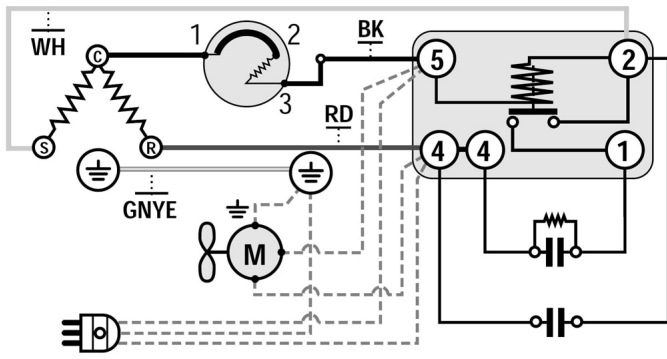
## Operating Envelope



## External Dimensions



## Wiring Diagram



## Assembly Instructions

