



APPROVALS



ENGINEERING CODE
843CD02

APPROVED REFRIGERANT
R-290

POWER SUPPLY
208-230 V 60 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
LBP

COOLING CAPACITY
1221 W (LBP)

EFFICIENCY
1.3 W/W (LBP)

MOTOR TYPE
CSCR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	27.8 cm ³
Compressor Cooling	Fan/NotControlled/230
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1 hp
Max Condensing Pressure Operating	18.07 bar
Max Condensing Pressure Peak	20.17 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	3.73 Ω at 25° C
Run Winding Resistance	1.44 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	150 g
Oil Charge	450 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Without dry air charge
Weight	17.7 Kg
Free Internal Volume	3.3 L

Electrical Components

	Description
Start Capacitor	88-108 Uf / 330 V
CSR / CSIR Box	YES
Run Capacitor	17.5
Starting Device	RVA2AI3C-124
Motor Protection	15HM1971-247

External Characteristics

Base Plate	Universal	
Tray Holder	No	
Height	234 mm	
Connector	Internal Diameter	Shape
Suction	9.6 mm	Vertical/Copper
Discharge	6.42 mm	Vertical/Copper
Process	6.42 mm	Vertical/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	1221 W	942 W	12.40 kg/h	1.3 W/W

Test Condition: ASHRAELBP32, Fan/NotControlled/230, 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 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
-40	598	582	6.03	1.03
-35	772	658	7.80	1.17
-30	1001	741	10.13	1.35
-25	1287	833	13.06	1.54
-20	1631	934	16.61	1.75
-15	2036	1044	20.81	1.95
-10	2503	1163	25.70	2.15

Test Condition: ASHRAELBP32, Fan/NotControlled/230, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. 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
-35	735	673	7.42	1.09
-30	948	766	9.59	1.24
-25	1216	869	12.34	1.4
-20	1541	982	15.68	1.57
-15	1925	1107	19.67	1.74
-10	2369	1242	24.31	1.91

Test Condition: ASHRAELBP32, Fan/NotControlled/230, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data are an indication of performance based simulation.

Condensing Temperature 55°C

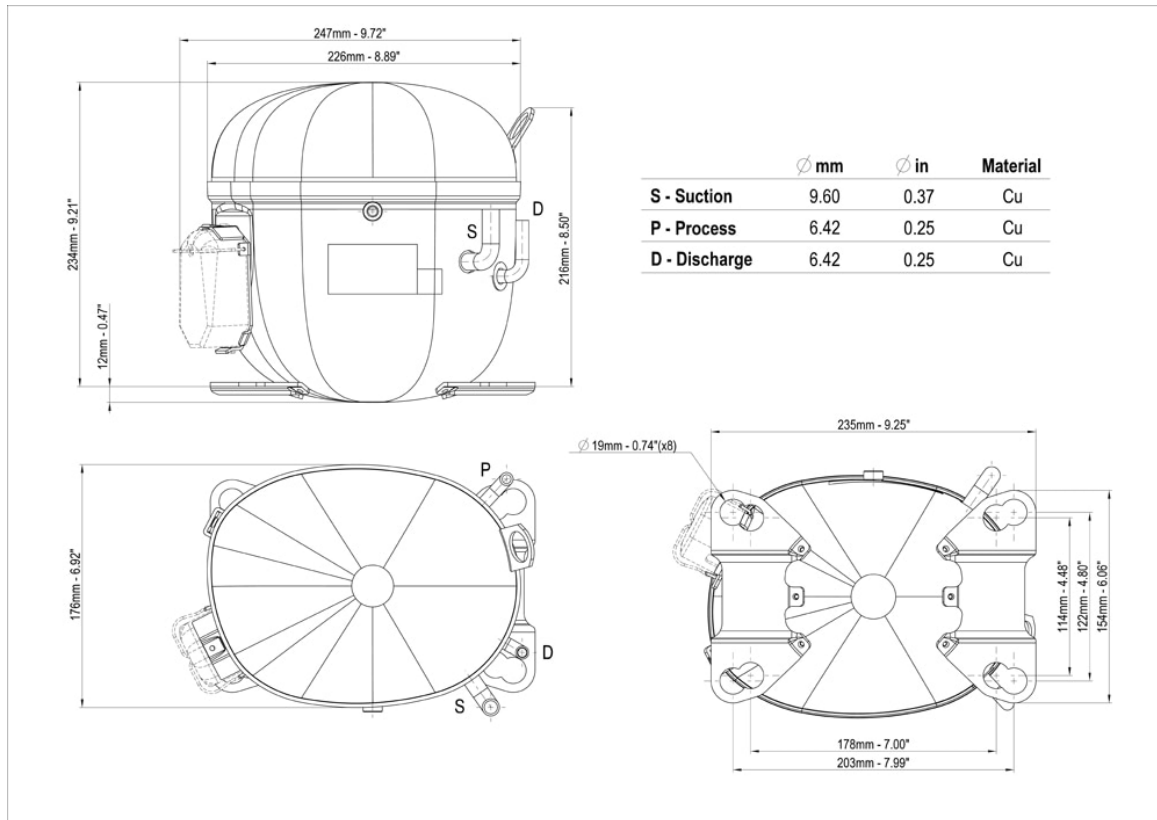
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-30	874	799	8.84	1.09
-25	1122	905	11.38	1.24
-20	1426	1024	14.51	1.39
-15	1787	1155	18.25	1.55
-10	2206	1299	22.64	1.7

Test Condition: ASHRAELBP32, Fan/NotControlled/230, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data are an indication of performance based simulation.

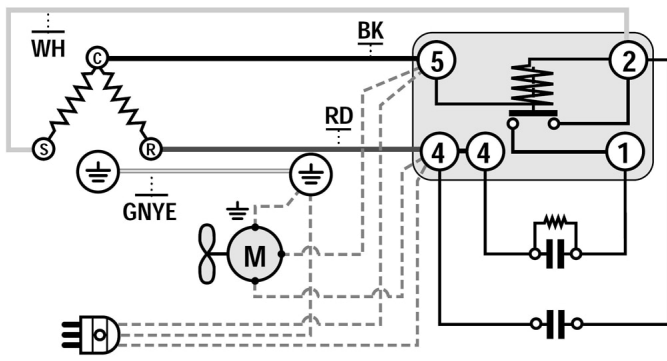
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

