MODEL
NJ2192GJ

APPROVALS

ENGINEERING CODE
943CA11

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
LBP

COOLING CAPACITY
643 W (LBP)

EFFICIENCY
1.03 W/W (LBP)

MOTOR TYPE
CSCR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	26.11 cm^3
Compressor Cooling	Fan/NotControled/220
Fan Air Flow	800 m^3/h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1 1/4 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	7.43 Ω at 25° C
Run Winding Resistance	1.92 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	750 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	21 Kg
Free Internal Volume	3.9 L

Electrical Components

	Description
Run Capacitor	15
Start Capacitor	88-108 Uf / 330 V
CSR / CSIR Box	YES
Starting Device	RVA2L3C
Motor Protection	15HM1962-248

External Characteristics

Base Plate	Large
Tray Holder	No
Height	276 mm

Connector	Internal Diameter	Shape
Suction	12.77 mm	Vertical/Copper
Discharge	8 mm	Slanted J/Copper
Process	6.42 mm	Vertical/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
40.00°C	-35.00°C	643 W	625 W	17.20 kg/h	1.03 W/W

Test Condition: EN12900LBP, Fan/NotControled/220, Return Gas 20°C, Evaporation -35.00°C, Condensing 40.00°C, Ambient 35°C , Liquid 40°C, Subcooling 0K. 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	504	543	12.81	0.93
-35	690	630	17.62	1.1
-30	928	722	23.79	1.29
-25	1219	817	31.39	1.49
-20	1561	918	40.47	1.7
-15	1956	1022	51.11	1.91
-10	2404	1130	63.38	2.13

Test Condition: EN12900LBP, Fan/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. 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	545	628	15.79	0.87
-30	746	743	21.69	1
-25	989	861	28.94	1.15
-20	1276	982	37.60	1.3
-15	1606	1106	47.75	1.45
-10	1980	1232	59.45	1.61

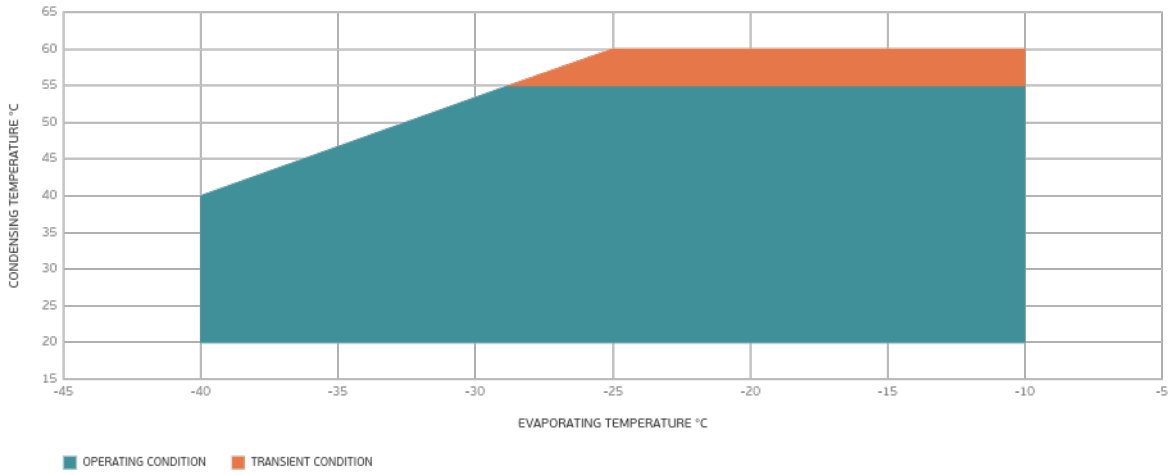
Test Condition: EN12900LBP, Fan/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

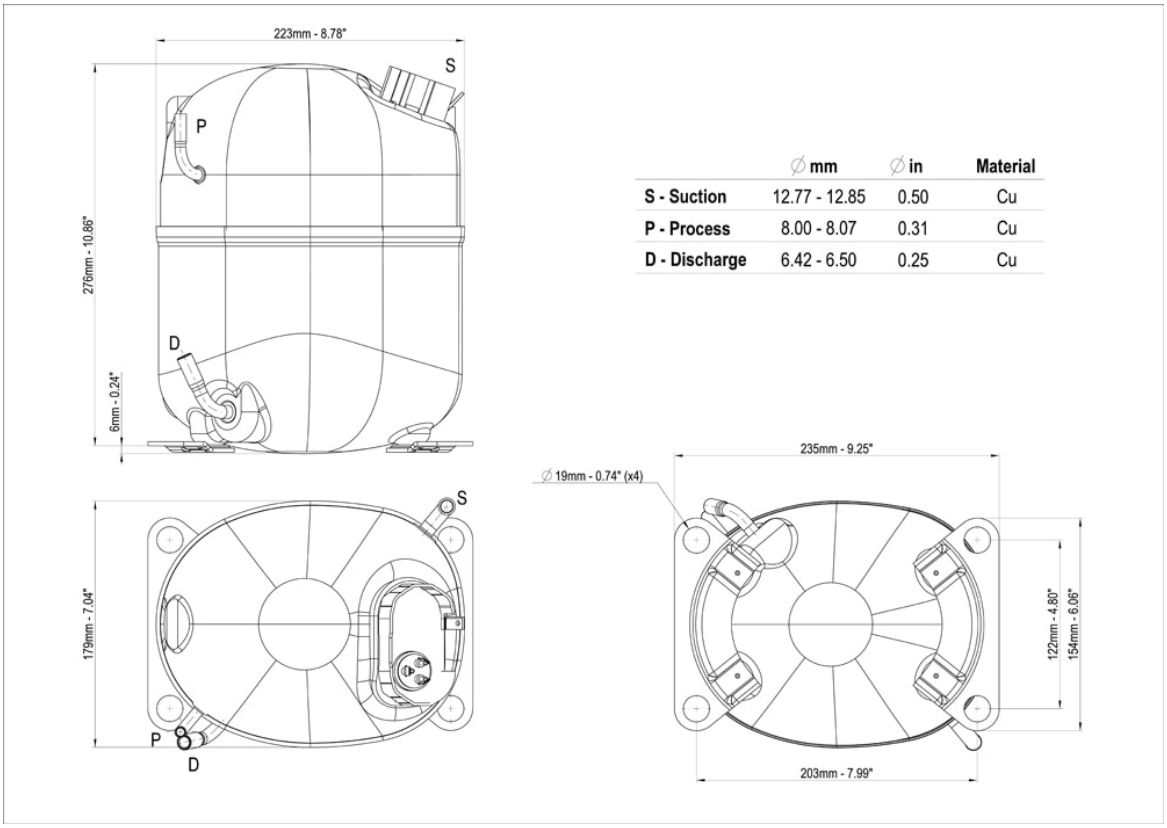
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-30	550	769	18.76	0.72
-25	746	901	25.65	0.83
-20	977	1034	33.88	0.94
-15	1242	1169	43.52	1.06
-10	1542	1305	54.63	1.18

Test Condition: EN12900LBP, Fan/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Operating Envelope

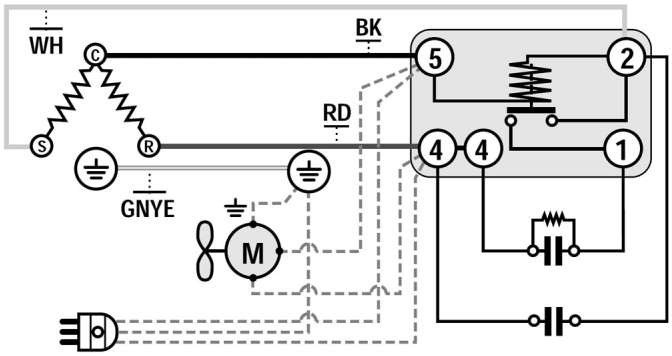


External Dimensions



	∅ mm	∅ in	Material
S - Suction	12.77 - 12.85	0.50	Cu
P - Process	8.00 - 8.07	0.31	Cu
D - Discharge	6.42 - 6.50	0.25	Cu

Wiring Diagram



Assembly Instructions