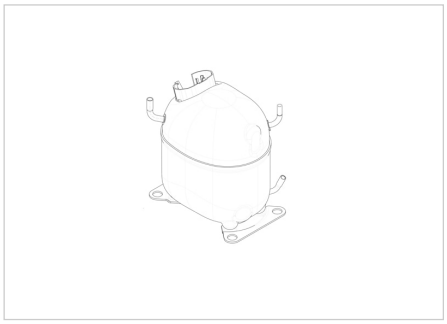
MODEL
NJ9238GK



APPROVALS

ENGINEERING CODE
943RV19

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
230 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
MBP

COOLING CAPACITY
2721 W (MBP)

EFFICIENCY
1.62 W/W (MBP)

MOTOR TYPE
CSCR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	32.67 cm³
Compressor Cooling	Fan/NotControled/230
Fan Air Flow	800 m³/h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1 1/2 hp
Max Condensing Pressure Operating	24.71 bar
Max Condensing Pressure Peak	27.71 bar
Power Supply	230 V 50 Hz
Evaporating Temperature Range	-20 °C to 10 °C

Electrical Data

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	5.4 Ω at 25° C
Run Winding Resistance	1.75 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	22.1 Kg
Free Internal Volume	3.9 L

Electrical Components

	Description
CSR / CSIR Box	YES
Run Capacitor	25
Start Capacitor	130-156 Uf / 330 V
Starting Device	RVA3H3C-108
Motor Protection	T0878/C9 OR MRA3764-

External Characteristics

Base Plate	Large
Tray Holder	No
Height	276 mm

Connector	Internal Diameter	Shape
Suction	12.7 mm	ROTOLOCK(Ex. thr. 1"-14UNS-2A)/Steel
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
54.40°C	-6.70°C	2721 W	1677 W	74.36 kg/h	1.62 W/W

Test Condition: ASHRAEMBP46, Fan/NotControled/230, Return Gas 35°C, Evaporation -6.70°C, Condensing 54.40°C, Ambient 35°C , Liquid 46.1°C, Subcooling 8.3K. 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
-20	2132	1191	46.30	1.79
-15	2714	1320	59.28	2.06
-10	3393	1439	74.58	2.36
-5	4167	1547	92.28	2.69
0	5035	1644	112.46	3.06
5	5995	1732	135.23	3.46
10	7046	1809	160.67	3.9

Test Condition: ASHRAEMBP46, Fan/NotControled/230, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. 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
-20	1768	1212	42.41	1.46
-15	2274	1359	54.86	1.67
-10	2864	1503	69.58	1.91
-5	3538	1644	86.67	2.15
0	4294	1780	106.21	2.41
5	5131	1914	128.30	2.68
10	6049	2044	153.02	2.96

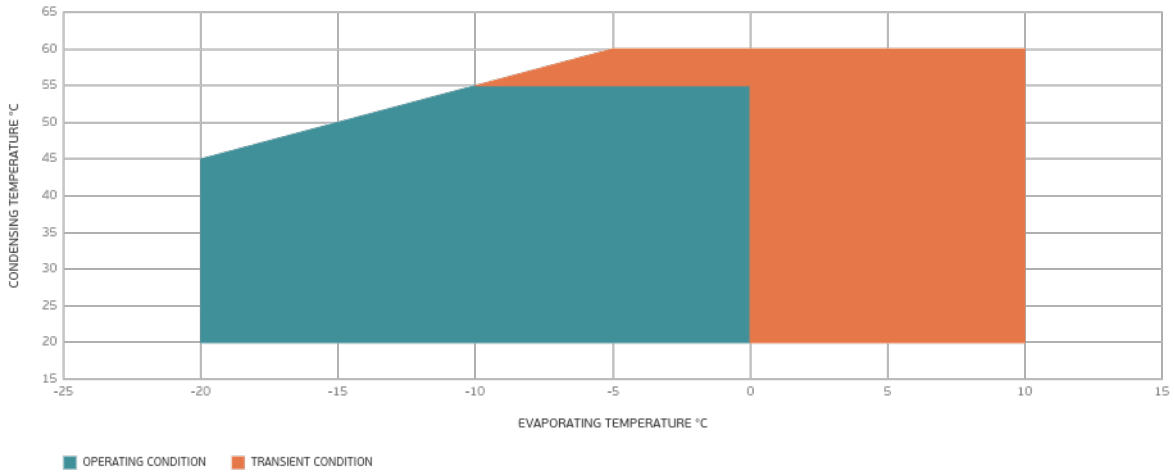
Test Condition: ASHRAEMBP46, Fan/NotControled/230, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

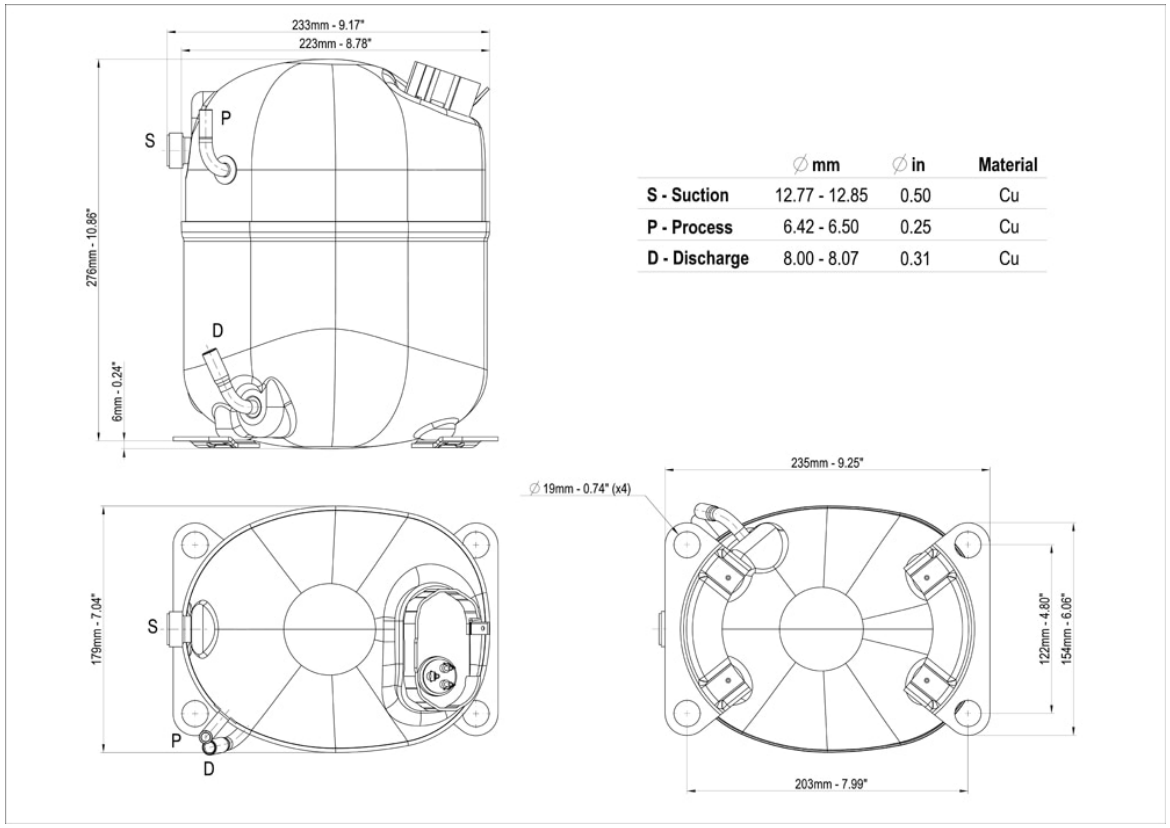
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-10	2324	1569	63.54	1.48
-5	2896	1739	79.91	1.66
0	3539	1913	98.70	1.85
5	4251	2091	120.00	2.03
10	5032	2272	143.90	2.21

Test Condition: ASHRAEMBP46, Fan/NotControled/230, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data are an indication of performance based simulation.

Operating Envelope

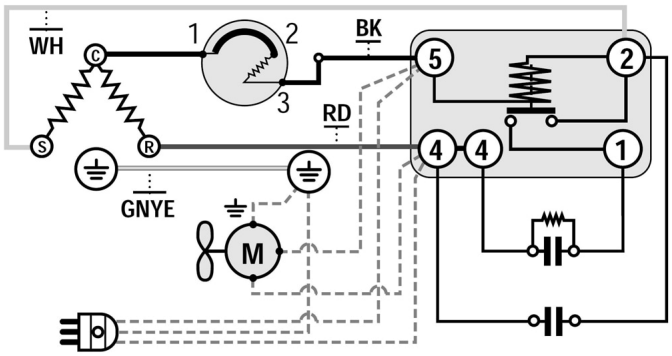


External Dimensions



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

Wiring Diagram



Assembly Instructions