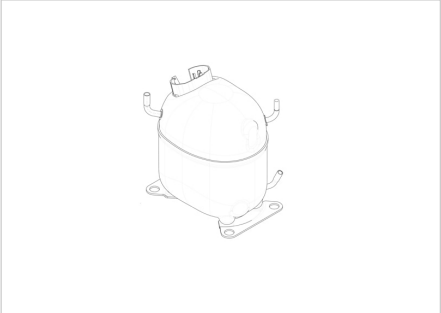
MODEL
NJ9238GS

embraco



APPROVALS

ENGINEERING CODE
947RM19

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
380-420 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
M/HBP

COOLING CAPACITY
4897 W

EFFICIENCY
2.59 W/W

MOTOR TYPE
3PHASE

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	32.7 cm³
Compressor Cooling	Fan
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	380-420 V 50 Hz / 440-480 V 60 Hz
Evaporating Temperature Range	-20 °C to 10 °C

Electrical Data

Motor type	3PHASE
Starting Torque	HST
Run Winding Resistance	8.4 Ω at 25° C
Locked Rotor Amperage (LRA)	22 A

Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	750 ml
Oil Type Configuration	Polyolester
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	21.2 Kg
Free Internal Volume	3.9 L

Electrical Components

	Description
Motor Protection	Internal 34HM260

External Characteristics

Base Plate	Large
Tray Holder	No
Height	276 mm

Connector	Internal Diameter	Shape
Suction	12.77 mm	ROTOLOCK 1"-14UNS-2A
Discharge	8 mm	Slanted 65?
Process	6.42 mm	Vertical

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	7.20°C	4897 W	1888 W	3.92 A	137.24 kg/h	2.59 W/W

Test Condition: ASHRAE, Fan, Return Gas 35°C, Evaporation 7.20°C, Condensing 54.40°C, Ambient 35°C , Liquid 46.1°C. Data in accordance to ASHRAE guideline polynomial curve.

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
-20	2214	1043	2.23	47.95	2.12
-15	2838	1156	2.5	61.83	2.46
-10	3552	1260	2.76	77.85	2.82
-5	4355	1355	3	96.16	3.21
0	5248	1441	3.2	116.87	3.64
5	6230	1517	3.35	140.11	4.11
10	7301	1583	3.42	166.01	4.61

Test Condition: ASHRAE, Fan, M/HBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-20	1849	1062	2.29	44.22	1.74
-15	2381	1191	2.57	57.24	2
-10	2998	1316	2.86	72.59	2.28
-5	3702	1438	3.13	90.38	2.57
0	4493	1556	3.38	110.76	2.89
5	5370	1671	3.59	133.85	3.21
10	6333	1782	3.74	159.78	3.55

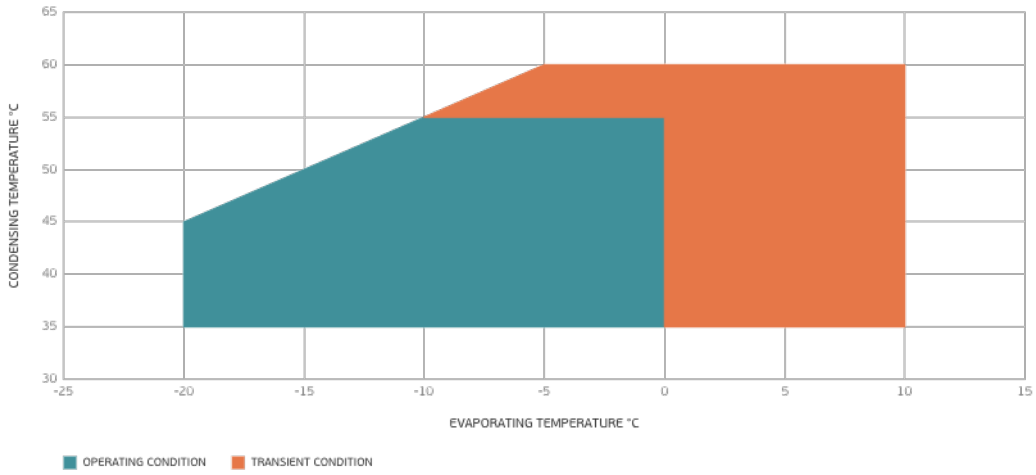
Test Condition: ASHRAE, Fan, M/HBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

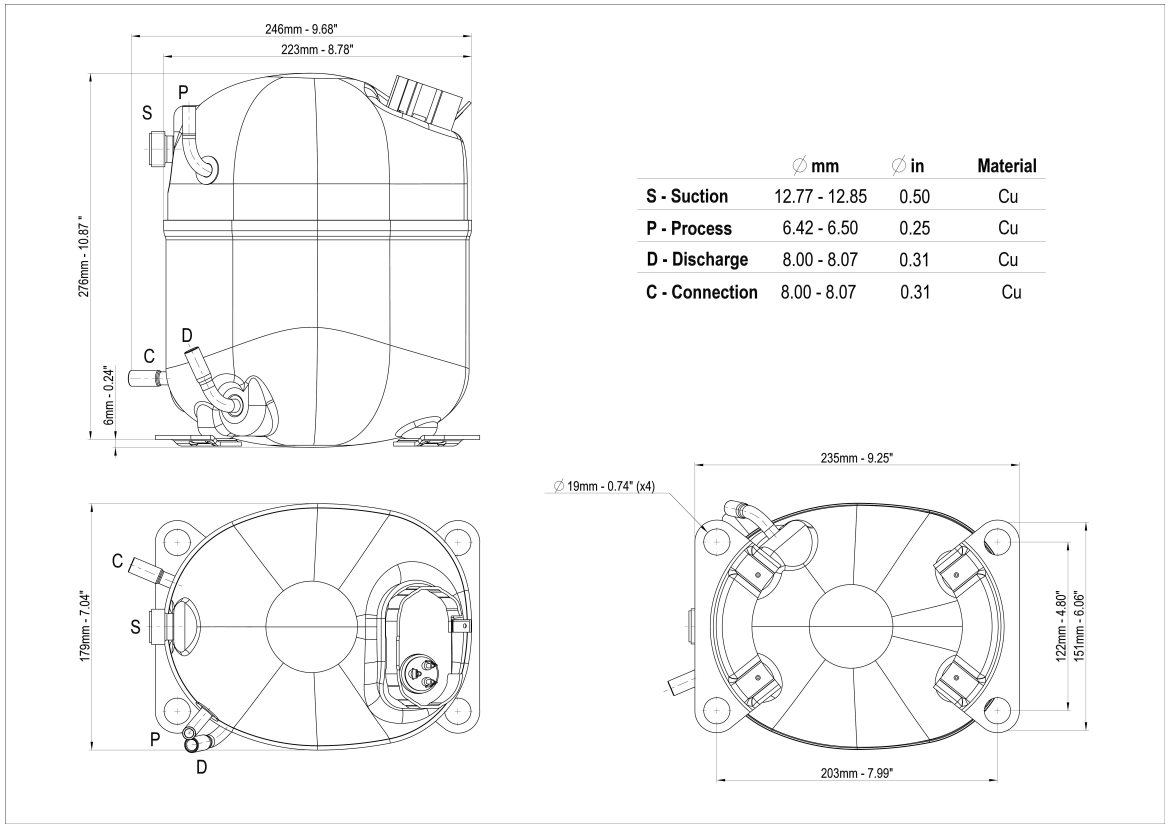
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	2421	1374	2.95	65.92	1.76
-5	3022	1524	3.26	83.06	1.98
0	3707	1676	3.56	102.95	2.21
5	4475	1830	3.83	125.73	2.44
10	5326	1987	4.05	151.52	2.68

Test Condition: ASHRAE, Fan, M/HBP. Data in accordance to ASHRAE guideline polynomial curve.

Operating Envelope

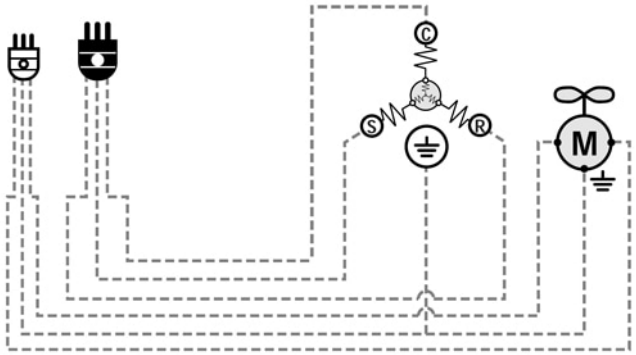


External Dimensions



	∅ 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
C - Connection	8.00 - 8.07	0.31	Cu

Wiring Diagram



Assembly Instructions