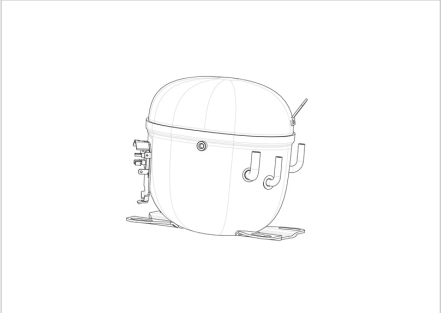
MODEL
NT6220GK

embraco



APPROVALS

ENGINEERING CODE
922BN04

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
200-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
MBP

COOLING CAPACITY
1096 W

EFFICIENCY
1.75 W/W

MOTOR TYPE
CSCR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	14.5 cm^3
Compressor Cooling	Fan
Fan Air Flow	520 m^3/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	200-240 V 50 Hz / 230 V 60 Hz
Evaporating Temperature Range	-20 °C to 10 °C

Electrical Data

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	12.87 Ω at 25° C
Run Winding Resistance	2.05 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	450 ml
Oil Type Configuration	Polyolester
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	17.5 Kg
Free Internal Volume	3.3 L

Electrical Components

	Description
CSR / CSIR Box	yes
Start Capacitor	88-108 ?F / 330V
Starting Device	Potential relay | RVA4AL3C-649
Motor Protection	External 3/4" MRA38112-3261

External Characteristics

Base Plate	Universal
Tray Holder	No
Height	220 mm

Connector	Internal Diameter	Shape
Suction	9.6 mm	Vertical
Discharge	6.42 mm	Vertical
Process	6.42 mm	Vertical

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
45.00°C	-10.00°C	1096 W	628 W	3.18 A	32.91 kg/h	1.75 W/W

Test Condition: EN12900, Fan, Return Gas 20°C, Evaporation -10.00°C, Condensing 45.00°C, Ambient 35°C , Liquid 45°C. Data in accordance to EN12900 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	848	500	2.67	21.99	1.7
-15	1086	550	2.86	28.38	1.97
-10	1366	598	3.03	36.00	2.28
-5	1687	644	3.18	44.95	2.62
0	2049	688	3.31	55.27	2.98
5	2451	731	3.42	67.05	3.35
10	2892	773	3.51	80.35	3.74

Test Condition: EN12900, Fan, MBP. Data in accordance to EN12900 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	680	518	2.68	20.05	1.31
-15	869	573	2.93	25.85	1.52
-10	1096	628	3.18	32.91	1.75
-5	1359	682	3.41	41.31	1.99
0	1657	736	3.65	51.10	2.25
5	1989	792	3.87	62.37	2.51
10	2356	848	4.1	75.17	2.78

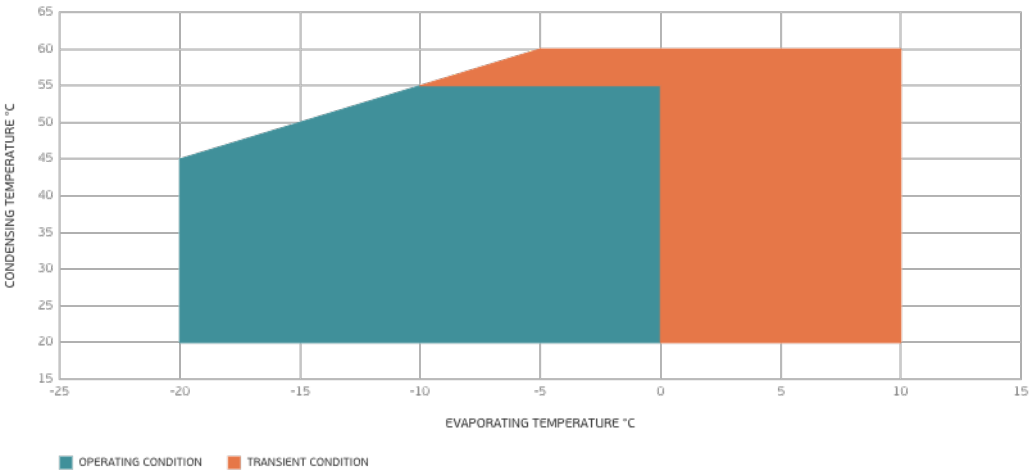
Test Condition: EN12900, Fan, MBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

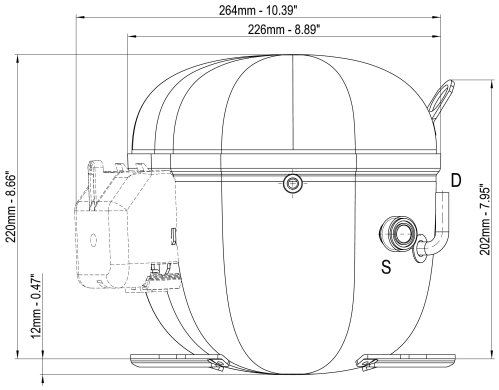
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	860	660	3.35	30.47	1.3
-5	1067	724	3.68	38.39	1.47
0	1305	791	4.01	47.73	1.65
5	1572	860	4.36	58.56	1.83
10	1868	932	4.72	70.94	2

Test Condition: EN12900, Fan, MBP. Data in accordance to EN12900 guideline polynomial curve.

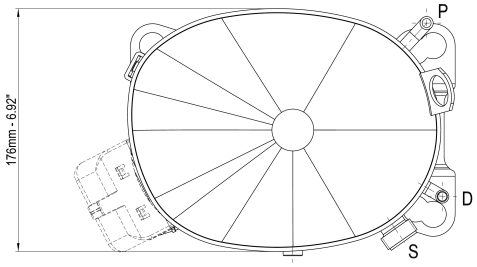
Operating Envelope

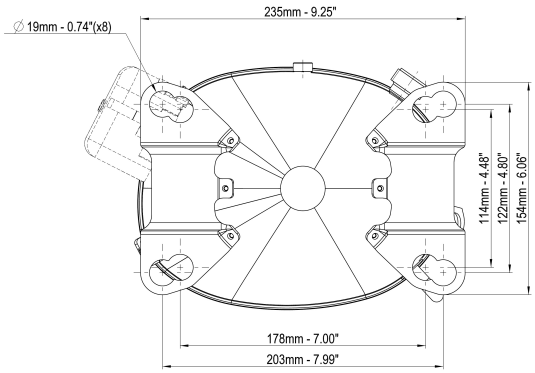


External Dimensions

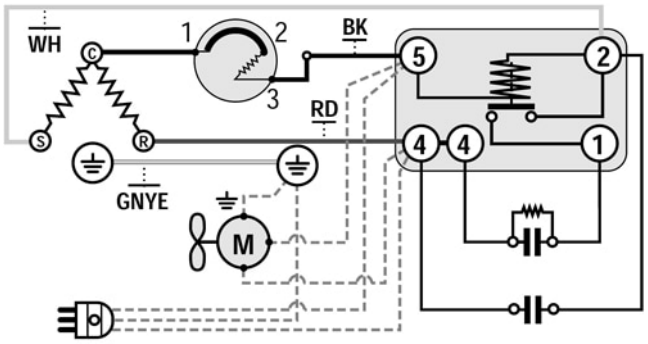


	∅ mm	∅ in	Material
S - Suction	12.70	0.50	Cu
P - Process	6.42	0.25	Cu
D - Discharge	6.42	0.25	Cu





Wiring Diagram



Assembly Instructions