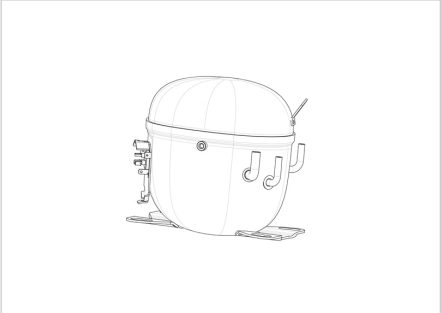
MODEL
NT6222GK

embraco



APPROVALS

ENGINEERING CODE
922CA04

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
MBP

COOLING CAPACITY
2499 W

EFFICIENCY
2.03 W/W

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	17.4 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	220-240 V 50 Hz
Evaporating Temperature Range	-20 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	9 Ω at 25° C
Run Winding Resistance	2.3 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	17.1 Kg
Free Internal Volume	3.3 L

Electrical Components

	Description
Start Capacitor	130-156 ?F / 330V
Starting Device	Current relay | MTRPH-60-65
Motor Protection	External 3/4" T0748/G6

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
54.40°C	7.20°C	2498 W	1233 W	7.03 A	70.20 kg/h	2.03 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	1149	669	5	24.86	1.72
-15	1425	720	5.15	31.05	1.98
-10	1777	772	5.32	38.96	2.3
-5	2204	827	5.5	48.65	2.67
0	2702	883	5.69	60.18	3.06
5	3271	942	5.9	73.61	3.47
10	3909	1003	6.11	89.02	3.89

Test Condition: ASHRAE, Fan, MBP. 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	986	712	5.13	23.56	1.39
-15	1213	785	5.37	29.17	1.55
-10	1506	856	5.62	36.47	1.76
-5	1865	927	5.87	45.53	2.01
0	2288	996	6.13	56.40	2.3
5	2773	1065	6.38	69.14	2.6
10	3318	1133	6.63	83.83	2.93

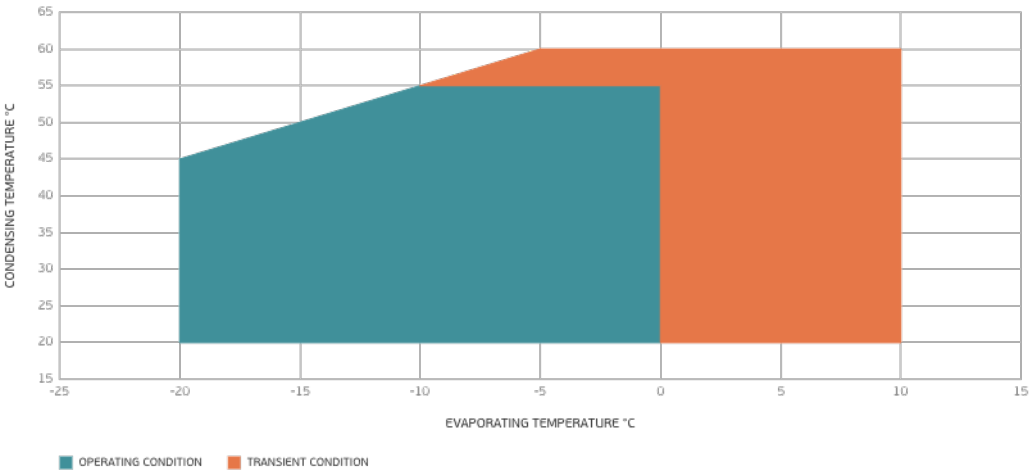
Test Condition: ASHRAE, Fan, MBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

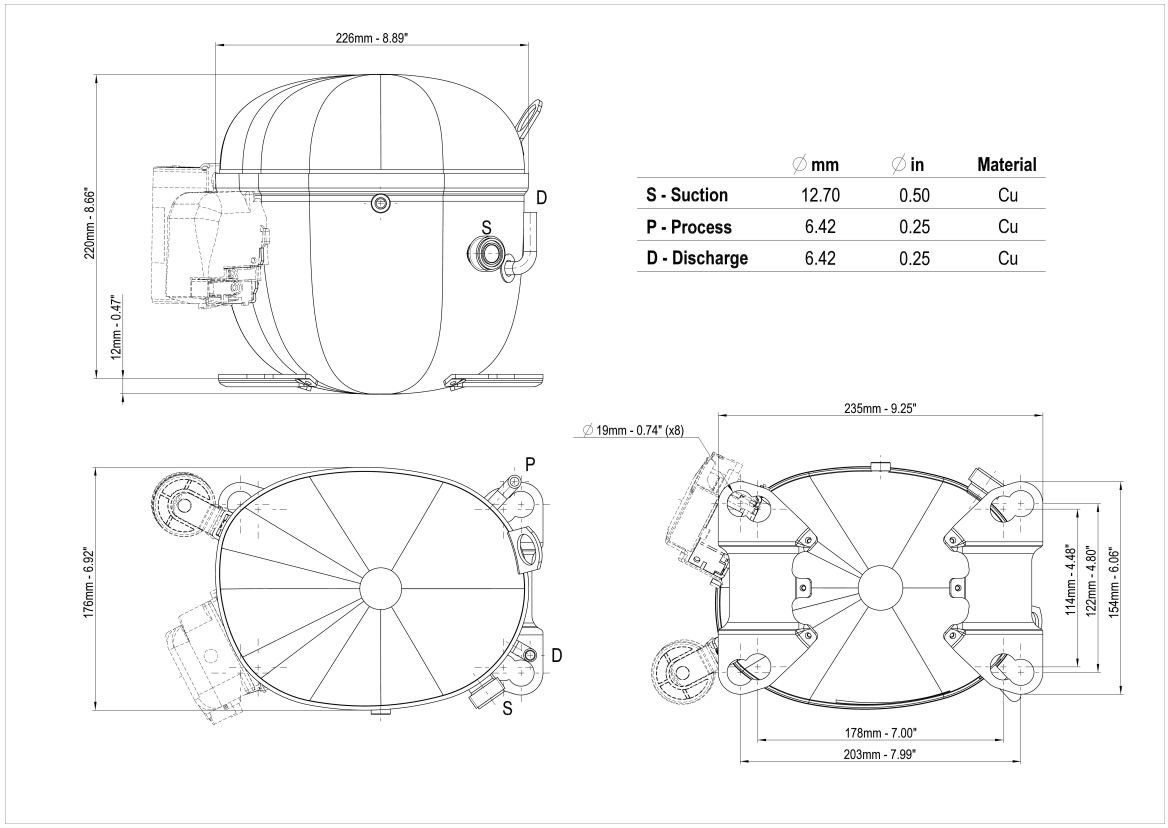
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	1225	958	5.97	33.34	1.28
-5	1520	1045	6.3	41.74	1.45
0	1870	1129	6.62	51.92	1.66
5	2272	1209	6.93	63.95	1.88
10	2727	1285	7.23	77.90	2.12

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

Operating Envelope

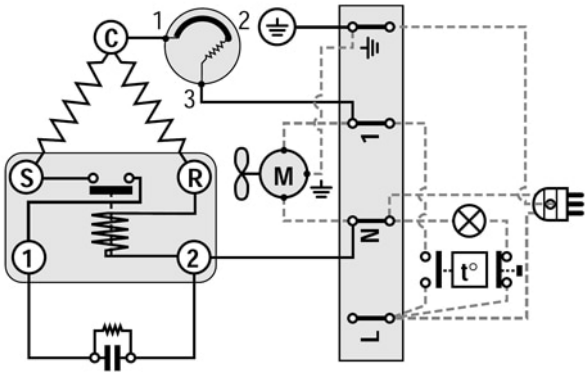


External Dimensions



	∅ 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