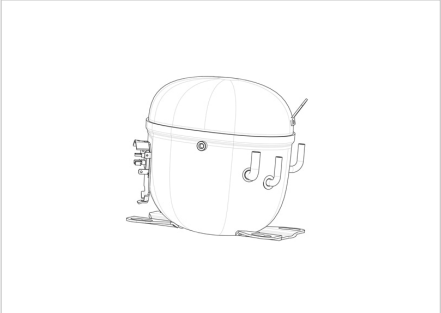
MODEL
NT6217Z



APPROVALS

ENGINEERING CODE
212BA04

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
HBP

COOLING CAPACITY
1865 W (HBP)

EFFICIENCY
2.32 W/W (HBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	20.44 cm^3
Compressor Cooling	Fan/NotControled/220
Fan Air Flow	520 m^3/h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	3/4 hp
Max Condensing Pressure Operating	13.92 bar
Max Condensing Pressure Peak	15.62 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-15 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	11.22 Ω at 25° C
Run Winding Resistance	3 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	450 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	17 Kg
Free Internal Volume	3.3 L

Electrical Components

	Description
Start Capacitor	88-108 Uf / 330 V
Motor Protection	T0645/G6
Starting Device	Relay | MTRPH-57*

External Characteristics

Base Plate	Universal
Tray Holder	No
Height	220 mm

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

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	7.20°C	1865 W	804 W	4.71 A	41.30 kg/h	2.32 W/W

Test Condition: ASHRAEHBP46, Fan/NotControled/220, Return Gas 35°C, Evaporation 7.20°C, Condensing 54.40°C, Ambient 35°C , Liquid 46.1°C, Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

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
-15	948	452	3.58	17.49	2.1
-10	1188	490	3.68	22.01	2.43
-5	1481	530	3.8	27.52	2.79
0	1830	571	3.93	34.16	3.2
5	2242	613	4.07	42.09	3.66
10	2724	656	4.22	51.45	4.15

Test Condition: ASHRAEHBP46, Fan/NotControled/220, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-15	823	488	3.69	16.42	1.69
-10	1032	535	3.81	20.65	1.93
-5	1289	586	3.96	25.89	2.2
0	1598	640	4.12	32.27	2.5
5	1967	697	4.31	39.95	2.82
10	2401	756	4.51	49.09	3.18

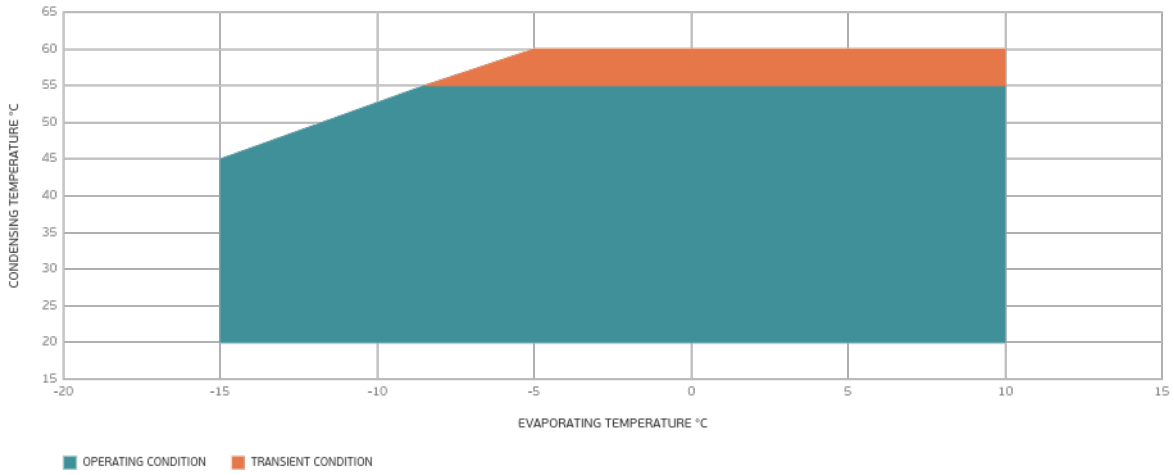
Test Condition: ASHRAEHBP46, Fan/NotControled/220, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

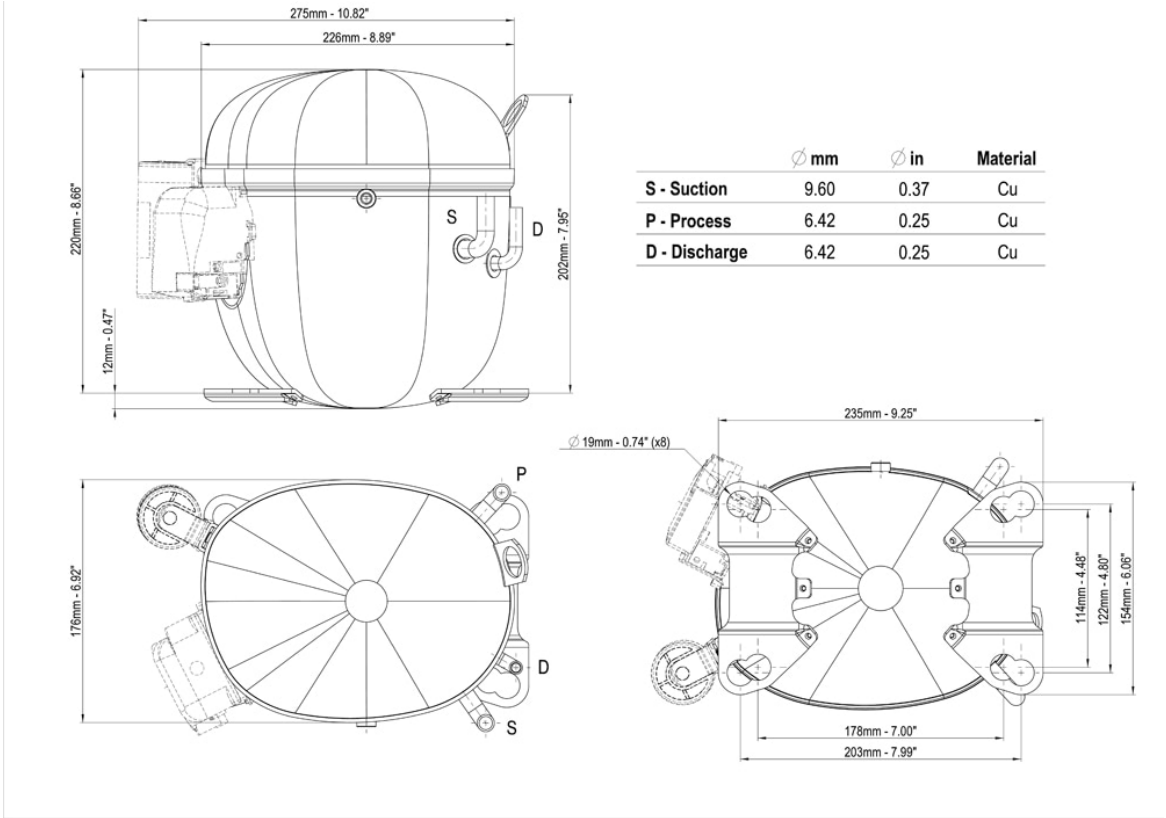
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	880	583	3.95	19.20	1.51
-5	1099	643	4.15	24.08	1.71
0	1366	707	4.37	30.12	1.93
5	1689	776	4.62	37.47	2.18
10	2072	849	4.89	46.30	2.44

Test Condition: ASHRAEHBP46, Fan/NotControled/220, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Operating Envelope

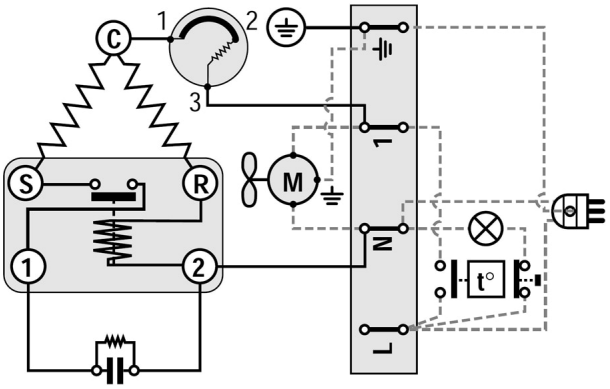


External Dimensions



	∅ mm	∅ in	Material
S - Suction	9.60	0.37	Cu
P - Process	6.42	0.25	Cu
D - Discharge	6.42	0.25	Cu

Wiring Diagram



Assembly Instructions