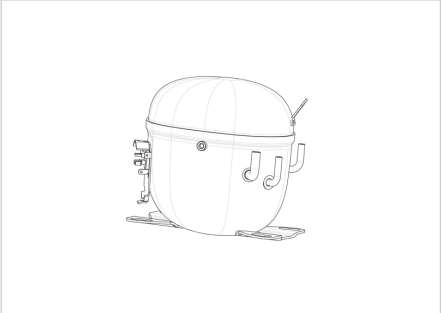
MODEL
# NT6217Z



APPROVALS

**ENGINEERING CODE**
212BA04

**APPROVED REFRIGERANT**
R-134a

**POWER SUPPLY**
220-240 V 50 Hz

**STANDARD CONDITIONS**
EN12900

**APPLICATION**
HBP

**COOLING CAPACITY**
1639 W (HBP)

**EFFICIENCY**
2.23 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 | Gas Flow Rate | Efficiency |
|---|---|---|---|---|---|
| 50.00°C | 5.00°C | 1639 W | 736 W | 41.24 kg/h | 2.23 W/W |

Test Condition: EN12900HBP, Fan/NotControled/220, Return Gas 20°C, Evaporation 5.00°C, Condensing 50.00°C, Ambient 35°C , Liquid 50°C, Subcooling 0K. 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 |
|---|---|---|---|---|
| -15 | 875 | 451 | 18.50 | 1.94 |
| -10 | 1096 | 489 | 23.33 | 2.24 |
| -5 | 1367 | 529 | 29.22 | 2.58 |
| 0 | 1691 | 570 | 36.35 | 2.97 |
| 5 | 2074 | 611 | 44.93 | 3.39 |
| 10 | 2522 | 654 | 55.15 | 3.86 |

Test Condition: EN12900HBP, Fan/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. 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 |
|---|---|---|---|---|
| -15 | 748 | 487 | 17.36 | 1.54 |
| -10 | 938 | 534 | 21.89 | 1.76 |
| -5 | 1172 | 585 | 27.48 | 2 |
| 0 | 1455 | 638 | 34.34 | 2.28 |
| 5 | 1791 | 694 | 42.65 | 2.58 |
| 10 | 2188 | 752 | 52.61 | 2.91 |

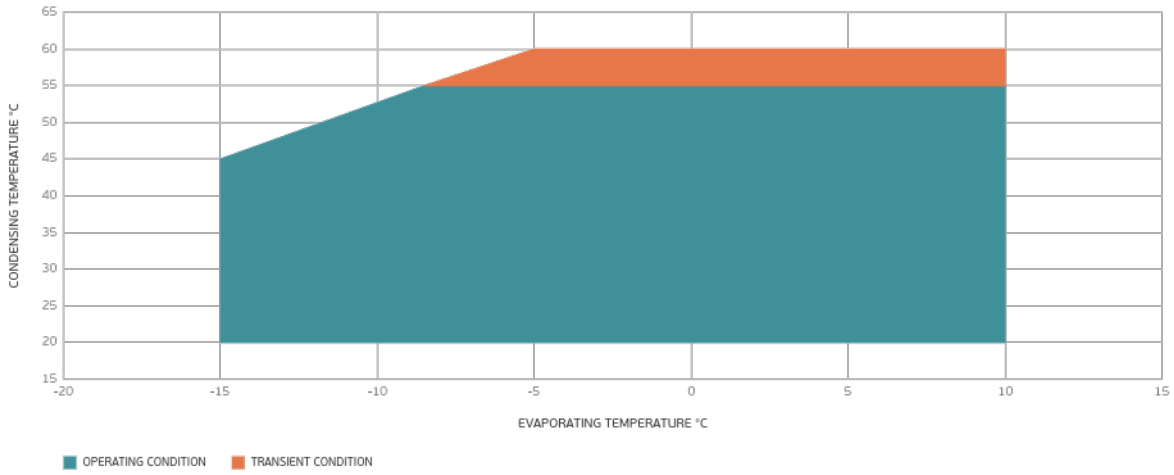
Test Condition: EN12900HBP, Fan/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

### Condensing Temperature 55°C

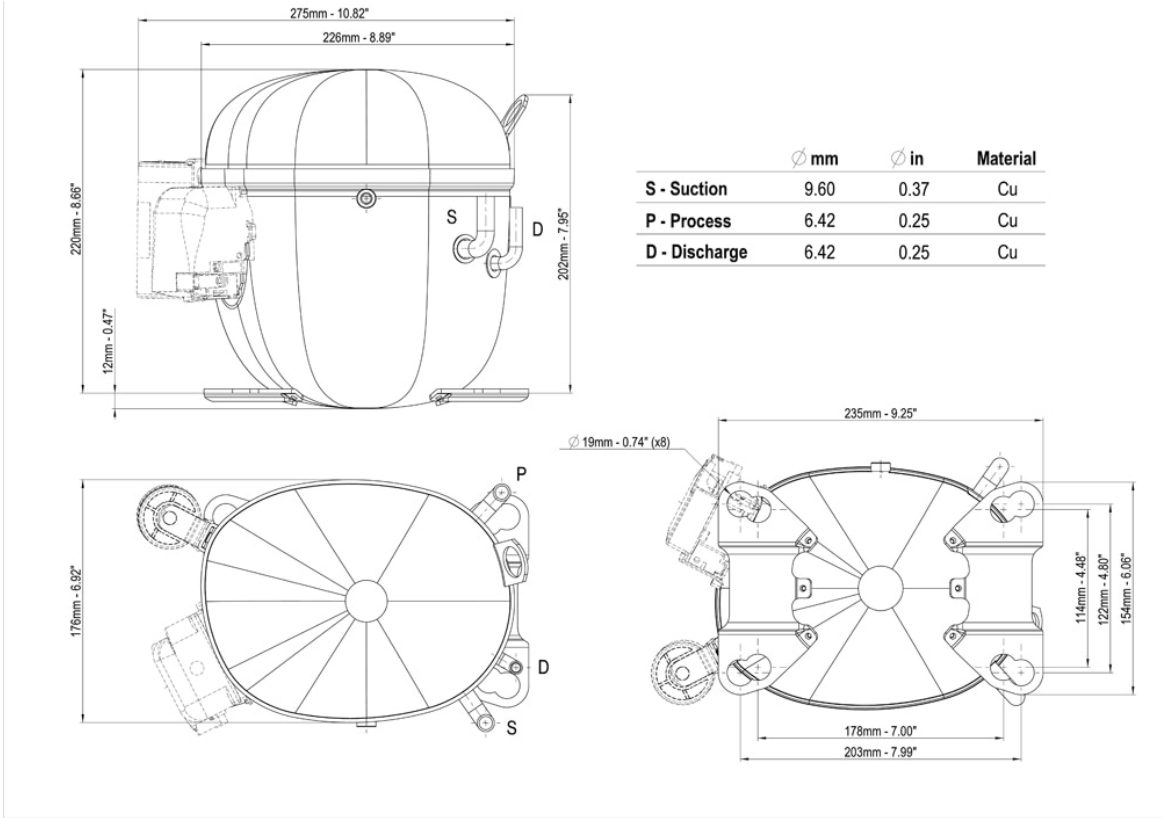
| Evaporating Temperature °C | Cooling Capacity W | Power W | Gas Flow Rate kg/h | Efficiency W/W |
|---|---|---|---|---|
| -10 | 785 | 581 | 20.34 | 1.35 |
| -5 | 980 | 640 | 25.56 | 1.53 |
| 0 | 1219 | 704 | 32.05 | 1.73 |
| 5 | 1507 | 772 | 40.01 | 1.95 |
| 10 | 1850 | 843 | 49.62 | 2.19 |

Test Condition: EN12900HBP, Fan/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

## Operating Envelope

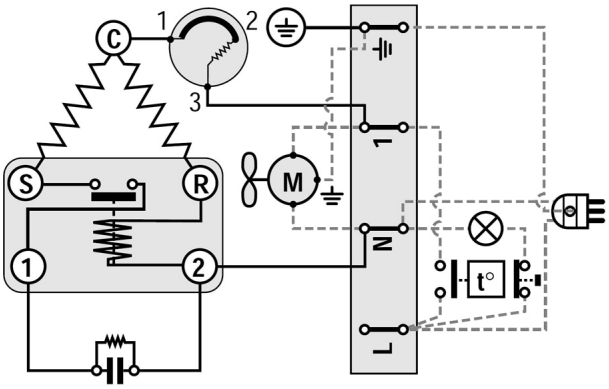



## External Dimensions




| | ∅ 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