

MODEL
NT2168GK



APPROVALS



 **ENGINEERING CODE**
922DN04

 **APPROVED REFRIGERANT**
R-404A

 **POWER SUPPLY**
200-240 V 50 Hz

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
LBP

 **COOLING CAPACITY**
345 W (LBP)

 **EFFICIENCY**
1.04 W/W (LBP)

 **MOTOR TYPE**
CSIR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	14.5 cm ³
Compressor Cooling	Fan/NotControlled/200
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	-40 °C to -10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	10.4 Ω at 25° C
Run Winding Resistance	2.4 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
Starting Device	Relay MTRPH-55-65*
Motor Protection	MST26LK-3259

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
40.00°C	-35.00°C	345 W	331 W	9.22 kg/h	1.04 W/W

Test Condition: EN12900LBP, Fan/NotControlled/200, Return Gas 20°C, Evaporation -35.00°C, Condensing 40.00°C, Ambient 35°C , Liquid 40°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
-40	268	273	6.80	0.98
-35	374	333	9.54	1.12
-30	508	388	13.03	1.31
-25	670	440	17.25	1.52
-20	856	490	22.20	1.75
-15	1067	538	27.87	1.98
-10	1300	586	34.25	2.22

Test Condition: EN12900LBP, Fan/NotControlled/200, Return Gas 20°C, Ambient 35°C , Subcooling OK. 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
-35	294	335	8.50	0.88
-30	404	399	11.75	1.01
-25	539	461	15.75	1.17
-20	695	522	20.49	1.33
-15	874	583	25.98	1.5
-10	1071	645	32.19	1.66

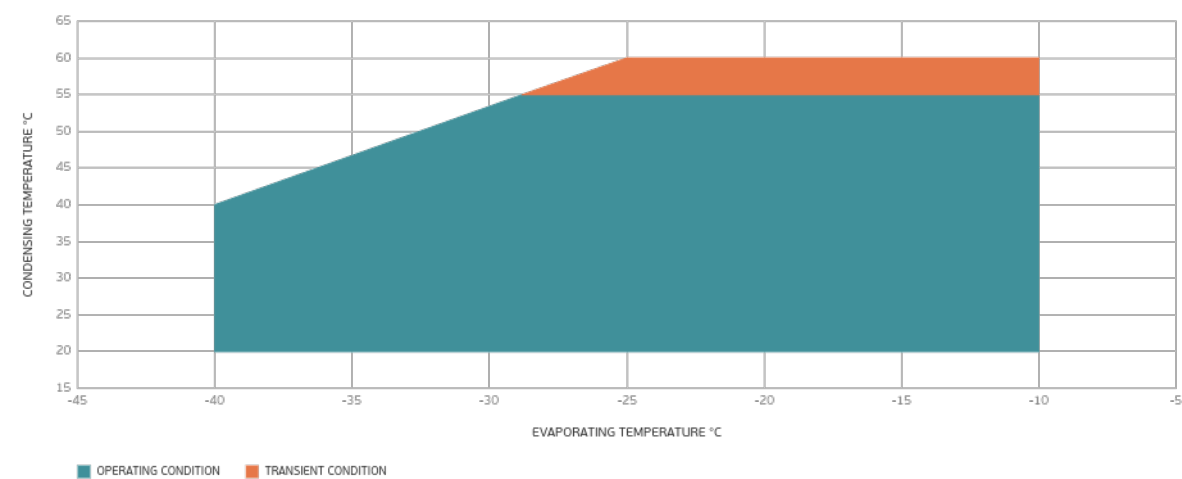
Test Condition: EN12900LBP, Fan/NotControlled/200, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

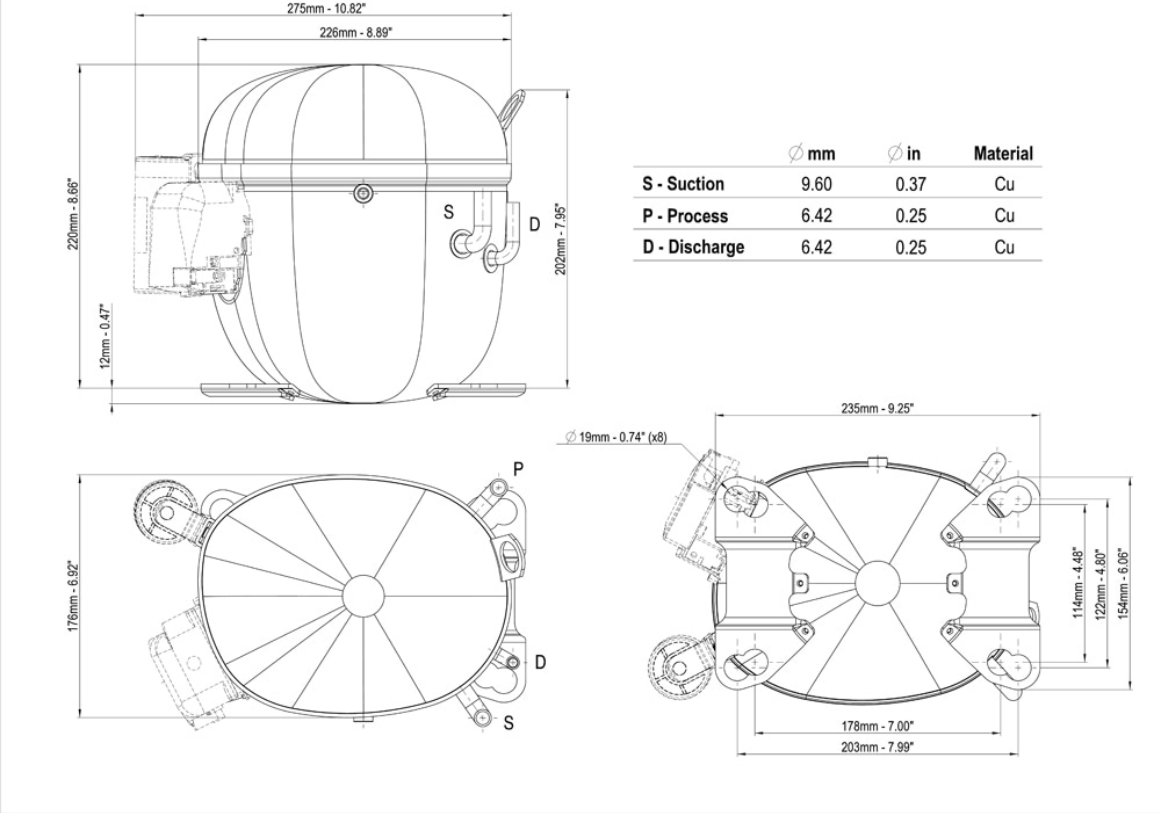
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-30	304	406	10.39	0.75
-25	410	474	14.09	0.87
-20	535	543	18.57	0.99
-15	679	613	23.80	1.11
-10	840	686	29.77	1.23

Test Condition: EN12900LBP, Fan/NotControlled/200, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data are an indication of performance based simulation.

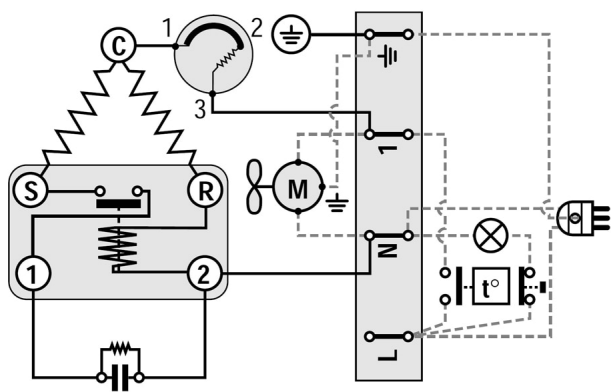
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

