

MODEL
NT2180GK



APPROVALS



 **ENGINEERING CODE**
923HA04

 **APPROVED REFRIGERANT**
R-404A

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

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
LBP

 **COOLING CAPACITY**
546 W (LBP)

 **EFFICIENCY**
1.09 W/W (LBP)

 **MOTOR TYPE**
CSCR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	20.44 cm ³
Compressor Cooling	Fan/NotControlled/220
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1 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	-40 °C to -10 °C

Electrical Data

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	8.4 Ω at 25° C
Run Winding Resistance	1.9 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	17.4 Kg
Free Internal Volume	3.3 L

Electrical Components

Description	
CSR / CSIR Box	YES
Start Capacitor	130-156 Uf / 330 V
Run Capacitor	17.5
Starting Device	RVA403C-123
Motor Protection	MRT26AKK-3261

External Characteristics

Base Plate	Universal	
Tray Holder	No	
Height	234 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
40.00°C	-35.00°C	546 W	500 W	2.4 A	14.65 kg/h	1.09 W/W

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Evaporation -35.00°C, Condensing 40.00°C, Ambient 35°C , Liquid 40°C, Subcooling 0K. 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
-40	435	438	2.14	11.06	1
-35	579	501	2.39	14.77	1.15
-30	763	562	2.65	19.55	1.36
-25	988	623	2.92	25.44	1.59
-20	1252	685	3.2	32.46	1.83
-15	1555	751	3.49	40.64	2.07
-10	1897	824	3.79	50.01	2.3

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling OK. 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
-35	473	509	2.42	13.70	0.93
-30	629	588	2.75	18.31	1.07
-25	818	665	3.1	23.94	1.23
-20	1038	744	3.45	30.60	1.39
-15	1290	827	3.81	38.35	1.56
-10	1572	916	4.18	47.19	1.71

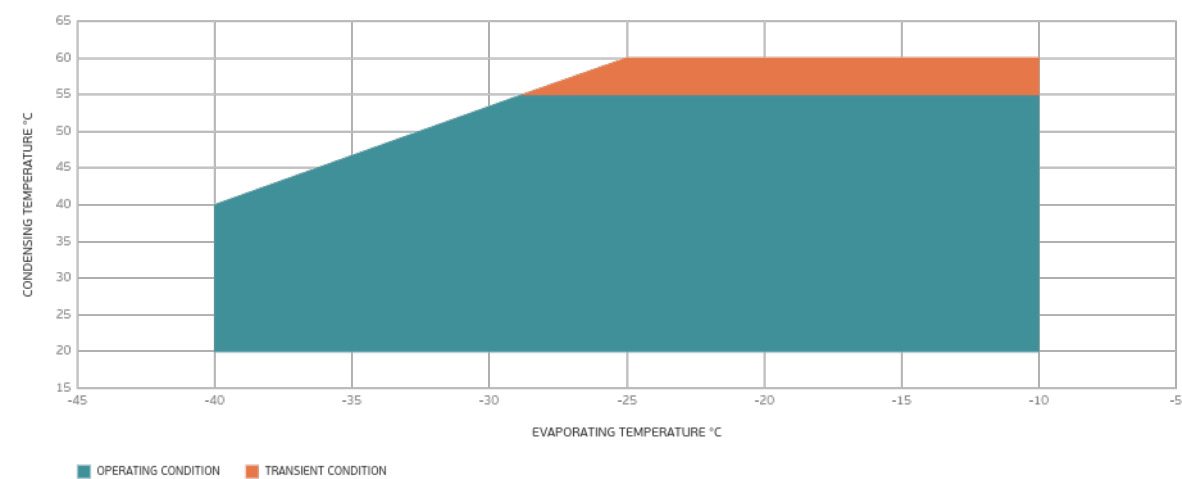
Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

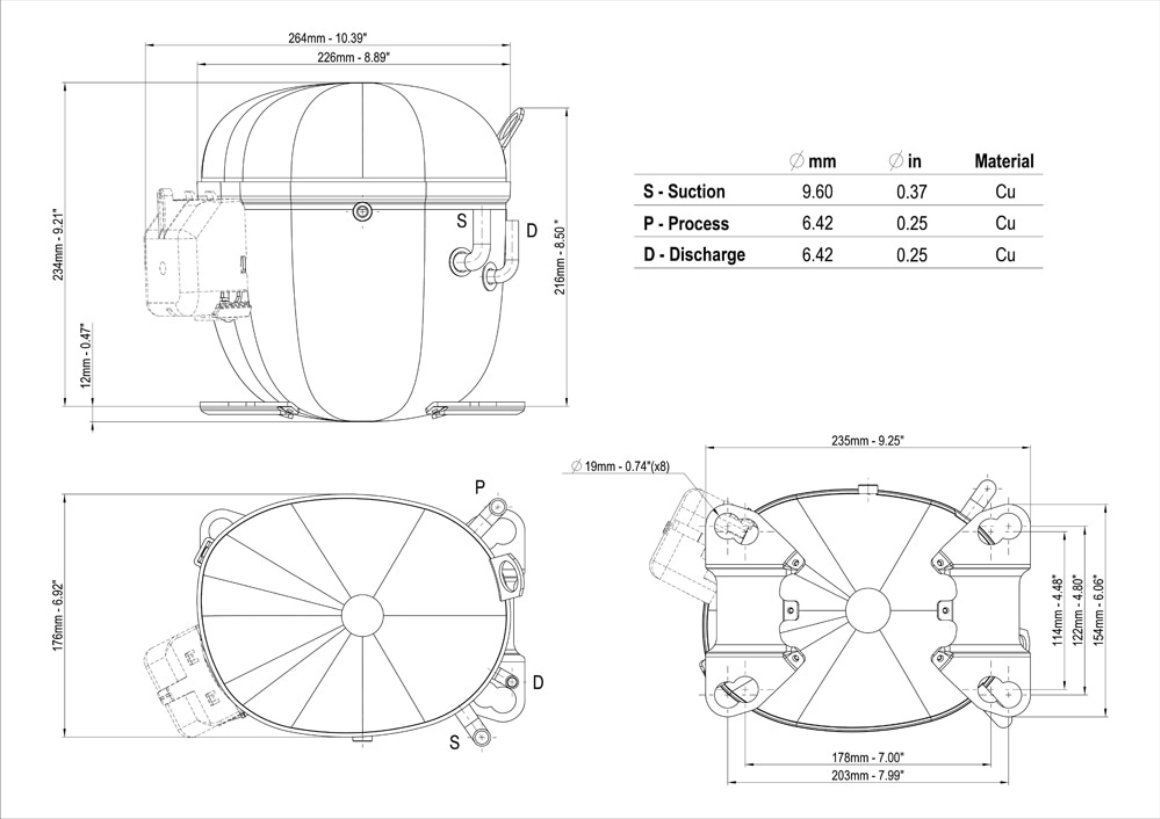
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	477	615	2.9	16.28	0.78
-25	631	700	3.28	21.67	0.9
-20	808	787	3.68	28.01	1.03
-15	1008	877	4.08	35.33	1.15
-10	1232	974	4.5	43.66	1.26

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

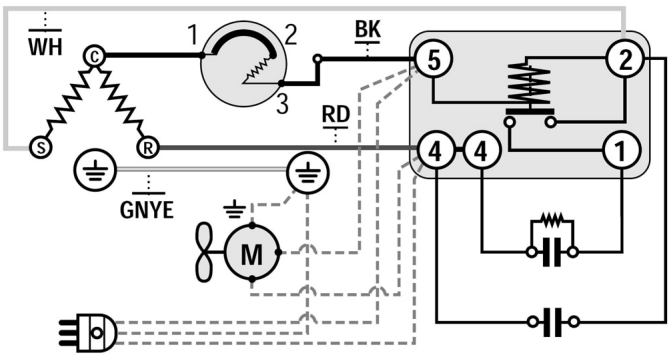
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

