

MODEL
NT2178GK



APPROVALS




 **ENGINEERING CODE**
922EN04

 **APPROVED REFRIGERANT**
R-404A

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

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
LBP

 **COOLING CAPACITY**
829 W (LBP)

 **EFFICIENCY**
1.44 W/W (LBP)

 **MOTOR TYPE**
CSCR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	17.39 cm ³
Compressor Cooling	Fan/NotControlled/230
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	200-240 V 50 Hz / 230 V 60 Hz
Evaporating Temperature Range	-40 °C to -10 °C

Electrical Data

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	8.8 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	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	17 Kg
Free Internal Volume	3.3 L

Electrical Components

Description	
Run Capacitor	15
Start Capacitor	88-108 Uf / 330 V
CSR / CSIR Box	YES
Starting Device	RVA3N3C-122
Motor Protection	MRA38168-3261

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	-23.30°C	829 W	575 W	3.13 A	19.18 kg/h	1.44 W/W

Test Condition: ASHRAELBP32, Fan/NotControlled/230, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C , Liquid 32.2°C, Subcooling 22.2K. 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	373	320	1.96	8.56	1.17
-35	507	381	2.24	11.66	1.33
-30	682	439	2.52	15.75	1.55
-25	897	496	2.81	20.80	1.81
-20	1149	550	3.1	26.77	2.09
-15	1435	603	3.39	33.63	2.38
-10	1752	654	3.68	41.35	2.68

Test Condition: ASHRAELBP32, Fan/NotControlled/230, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. 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	469	390	2.26	10.78	1.2
-30	634	458	2.57	14.62	1.38
-25	837	526	2.91	19.36	1.59
-20	1075	593	3.26	24.99	1.81
-15	1345	660	3.62	31.46	2.04
-10	1645	727	4	38.75	2.26

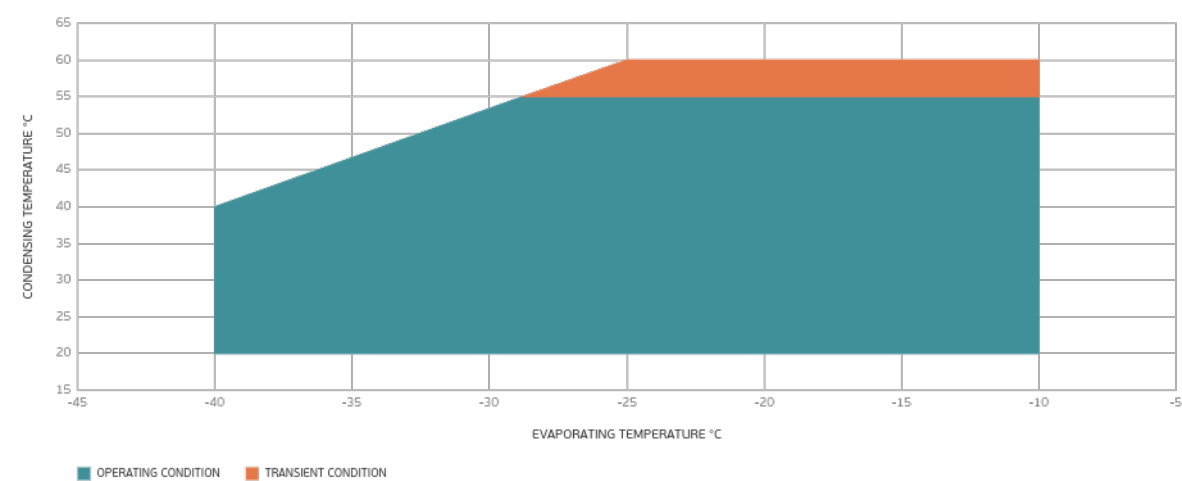
Test Condition: ASHRAELBP32, Fan/NotControlled/230, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

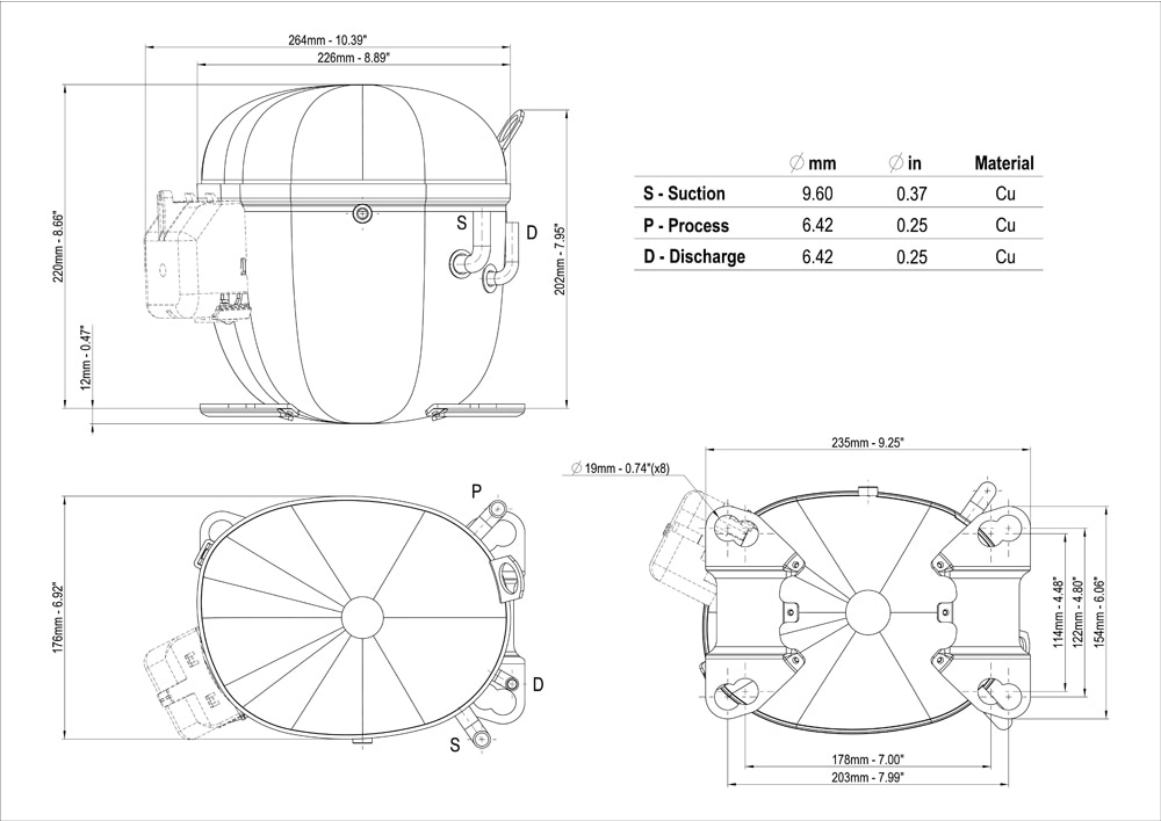
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	565	475	2.62	13.00	1.19
-25	755	550	3	17.43	1.37
-20	977	625	3.41	22.68	1.56
-15	1231	702	3.85	28.74	1.75
-10	1513	780	4.31	35.56	1.94

Test Condition: ASHRAELBP32, Fan/NotControlled/230, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

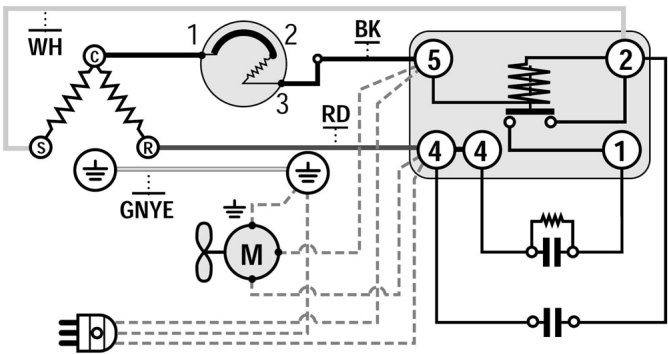
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

