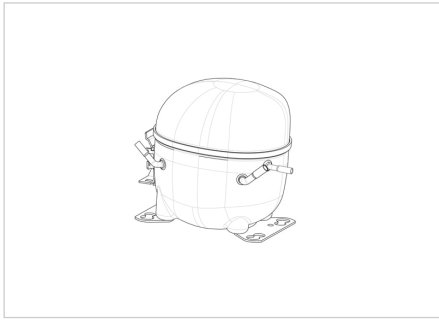


MODEL

NEK6181GK

embraco



APPROVALS


 **ENGINEERING CODE**

957MA51

 **APPROVED REFRIGERANT**

R-404A

 **POWER SUPPLY**

220-240 V 50 Hz

 **STANDARD CONDITIONS**

ASHRAE

 **APPLICATION**

MBP

 **COOLING CAPACITY**

1100 W

 **EFFICIENCY**

2.14 W/W

 **MOTOR TYPE**

CSIR

 **STARTING TORQUE**

HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	7.28 cm ³
Compressor Cooling	Fan
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/3 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	-20 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	29.57 Ω at 25° C
Run Winding Resistance	7.96 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	350 g
Oil Charge	350 ml
Oil Type Configuration	Polyolester
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	10.3 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Start Capacitor	43-53 7F / 330V
Starting Device	Current relay MTRP-41-65
Motor Protection	External 3/4" T0874/G6

External Characteristics

Base Plate	European	
Tray Holder	No	
Height	188 mm	
Connector	Internal Diameter	Shape
Suction	8.1 mm	Slanted 42°
Discharge	6.1 mm	Straight
Process	6.1 mm	Slanted 42°

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	7.20°C	1100 W	513 W	2.96 A	30.91 kg/h	2.14 W/W

Test Condition: ASHRAE, Fan, Return Gas 35°C, Evaporation 7.20°C, Condensing 54.40°C, Ambient 35°C, Liquid 46.1°C. Data in accordance to ASHRAE guideline polynomial curve.

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
-20	533	291	2.13	11.54	1.83
-15	649	305	2.18	14.16	2.13
-10	794	324	2.25	17.42	2.45
-5	968	346	2.33	21.37	2.8
0	1170	371	2.43	26.05	3.15
5	1400	399	2.54	31.50	3.5
10	1659	430	2.67	37.78	3.86

Test Condition: ASHRAE, Fan, MBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-20	456	301	2.16	10.91	1.52
-15	553	330	2.26	13.32	1.68
-10	676	360	2.37	16.38	1.88
-5	825	392	2.48	20.13	2.1
0	999	424	2.6	24.61	2.35
5	1198	457	2.73	29.88	2.62
10	1423	489	2.87	35.97	2.91

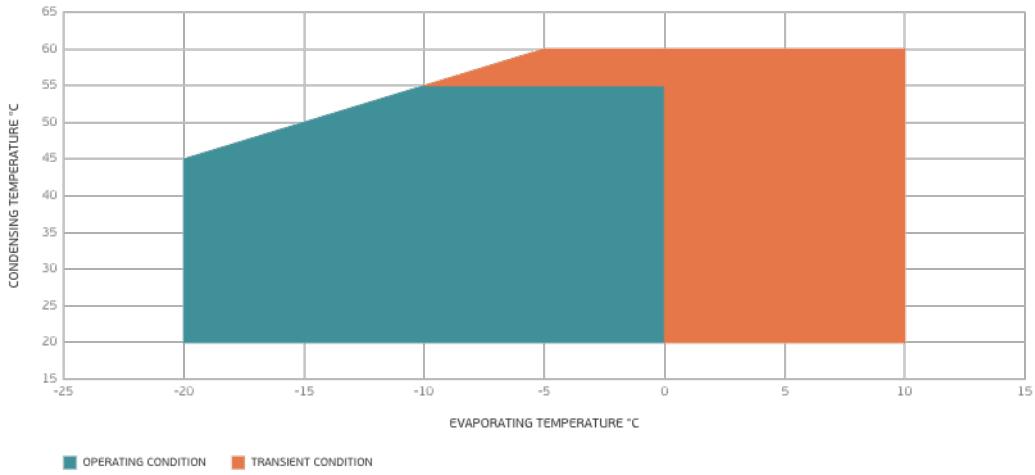
Test Condition: ASHRAE, Fan, MBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

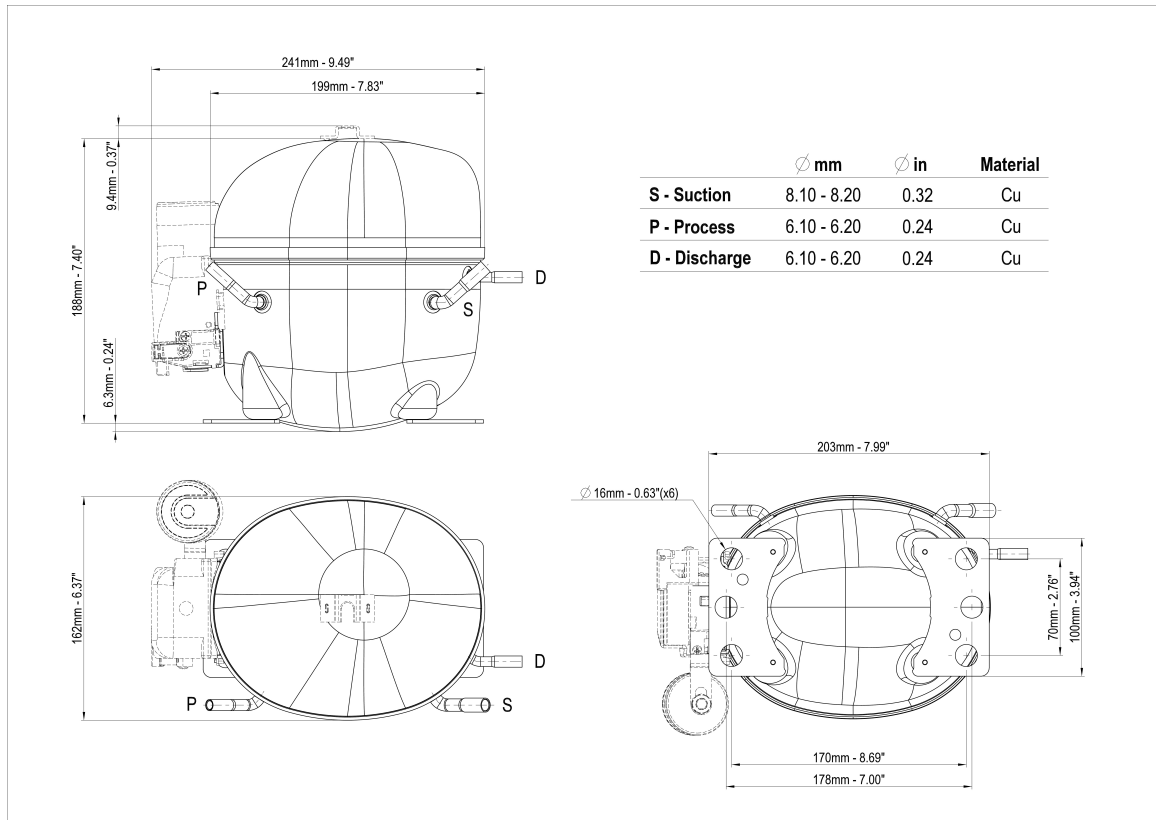
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	565	398	2.5	15.39	1.42
-5	690	435	2.64	18.94	1.59
0	836	470	2.78	23.24	1.78
5	1006	502	2.91	28.32	2
10	1199	532	3.05	34.22	2.25

Test Condition: ASHRAE, Fan, MBP. Data in accordance to ASHRAE guideline polynomial curve.

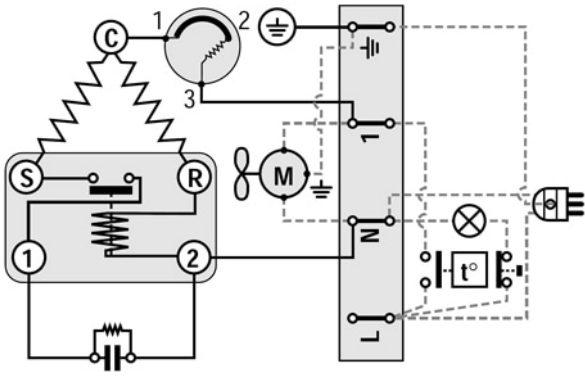
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

