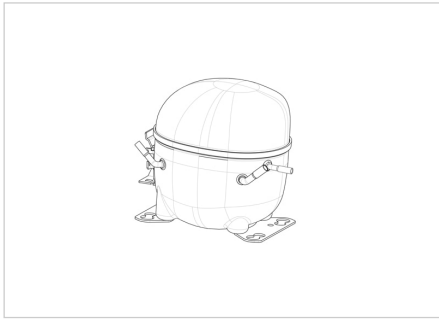


MODEL

**NEK6213GK**

embraco




## APPROVALS




 **ENGINEERING CODE**  
959BA51.


 **APPROVED REFRIGERANT**  
R-404A

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

 **STANDARD CONDITIONS**  
ASHRAE

 **APPLICATION**  
MBP

 **COOLING CAPACITY**  
1789 W

 **EFFICIENCY**  
1.92 W/W

 **MOTOR TYPE**  
CSIR

 **STARTING TORQUE**  
HST

## DATA

## General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	12.11 cm <sup>3</sup>
Compressor Cooling	Fan
Fan Air Flow	520 m <sup>3</sup> /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/2 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	27.92 Ω at 25° C
Run Winding Resistance	4.53 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	11.3 Kg
Free Internal Volume	2.1 L

## Electrical Components

	Description
Start Capacitor	53-64 7F / 330V
Starting Device	Current relay   MTRP-0050-65
Motor Protection	External 3/4" T0743/G6

## External Characteristics

Base Plate	European	
Tray Holder	No	
Height	206 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	1789 W	932 W	5.07 A	50.26 kg/h	1.92 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	856	472	3.36	18.54	1.81
-15	1060	517	3.51	23.09	2.05
-10	1302	565	3.67	28.53	2.3
-5	1582	618	3.86	34.92	2.56
0	1901	676	4.07	42.33	2.81
5	2259	737	4.3	50.83	3.07
10	2656	802	4.55	60.48	3.31

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	720	509	3.47	17.19	1.41
-15	901	562	3.64	21.68	1.6
-10	1116	619	3.83	27.01	1.8
-5	1362	679	4.05	33.26	2.01
0	1642	743	4.29	40.48	2.21
5	1955	811	4.56	48.74	2.41
10	2301	882	4.86	58.12	2.61

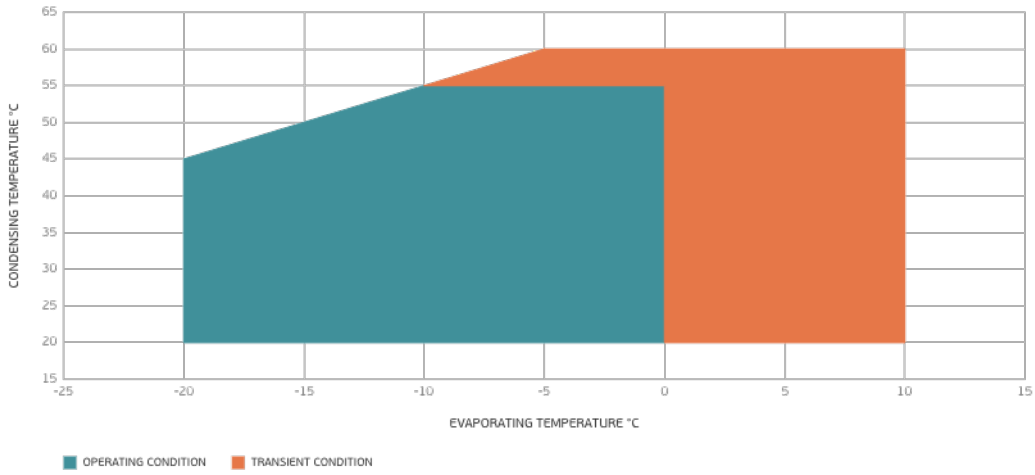
Test Condition: ASHRAE, Fan, MBP. Data in accordance to ASHRAE guideline polynomial curve.

### Condensing Temperature 55°C

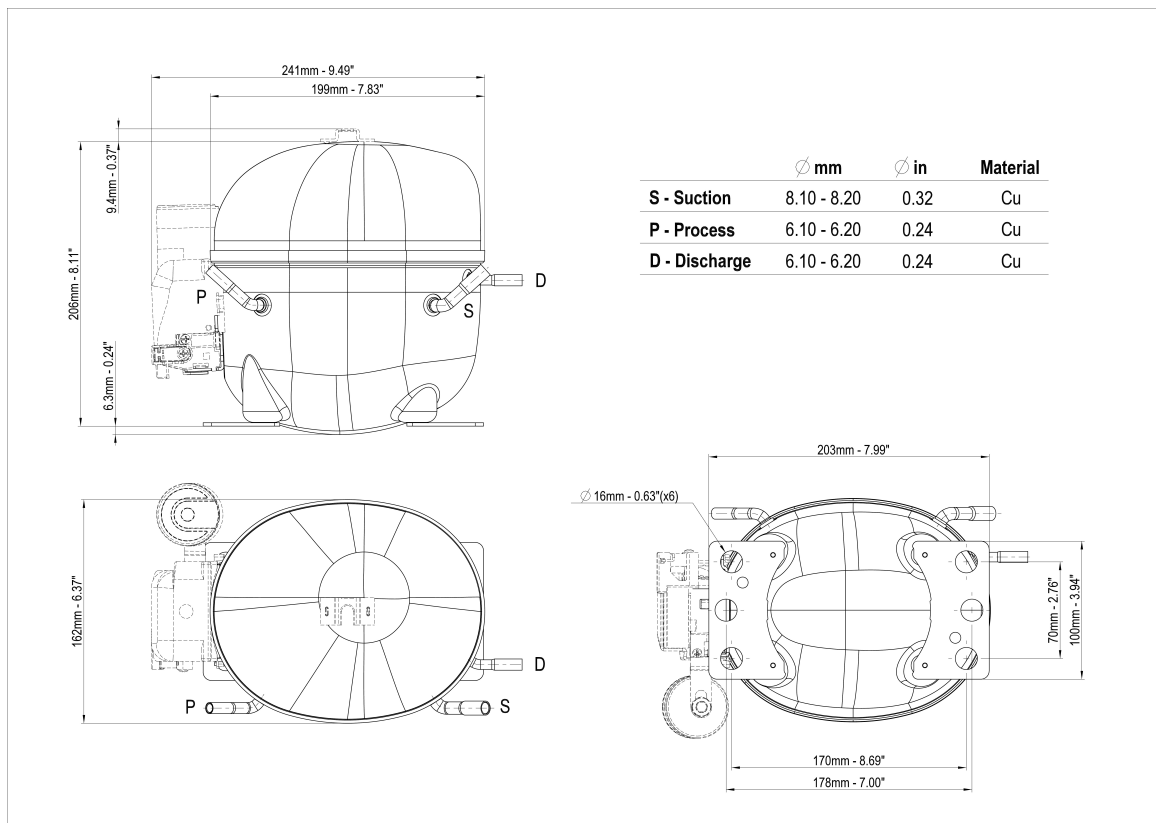
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	936	673	4.01	25.48	1.39
-5	1145	746	4.29	31.46	1.53
0	1381	823	4.6	38.36	1.68
5	1644	902	4.94	46.27	1.82
10	1935	985	5.3	55.25	1.96

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

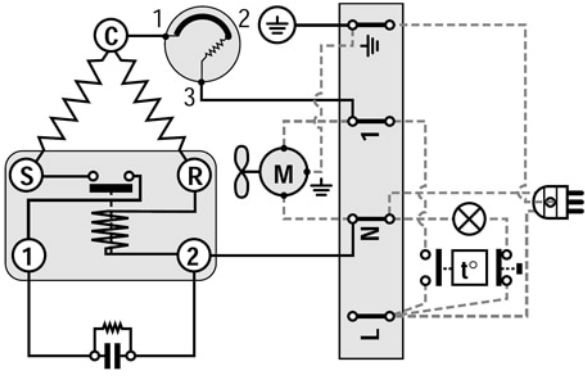
## Operating Envelope



## External Dimensions



## Wiring Diagram



## Assembly Instructions

