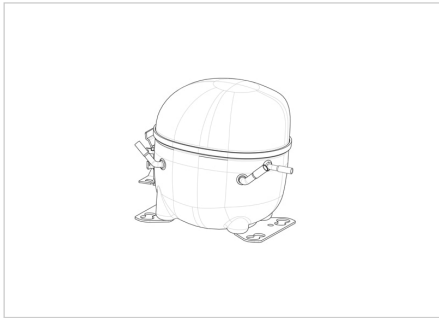


MODEL

NEK2125GK

embraco




APPROVALS



 **ENGINEERING CODE**
957EA51


 **APPROVED REFRIGERANT**
R-404A

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

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
LBP

 **COOLING CAPACITY**
343 W

 **EFFICIENCY**
1.23 W/W

 **MOTOR TYPE**
CSIR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	6.2 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	-40 °C to -10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	29.4 Ω at 25° C
Run Winding Resistance	6.38 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	53-64 7F / 330V
Motor Protection	External 3/4" T0186/G6
Starting Device	Current relay MTRP-0028-65

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	-23.30°C	343 W	278 W	2.05 A	7.92 kg/h	1.23 W/W

Test Condition: ASHRAE, Fan, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C, Liquid 32.2°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
-40	183	180	1.84	4.19	1.02
-35	222	202	1.89	5.10	1.1
-30	277	223	1.93	6.39	1.24
-25	348	245	1.97	8.07	1.42
-20	436	266	2.02	10.15	1.64
-15	539	287	2.07	12.63	1.88
-10	659	307	2.13	15.54	2.15

Test Condition: ASHRAE, Fan, LBP. 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
-35	202	205	1.89	4.63	0.98
-30	260	232	1.94	5.98	1.12
-25	332	258	2	7.68	1.29
-20	419	285	2.06	9.74	1.47
-15	520	312	2.13	12.16	1.67
-10	635	339	2.21	14.96	1.87

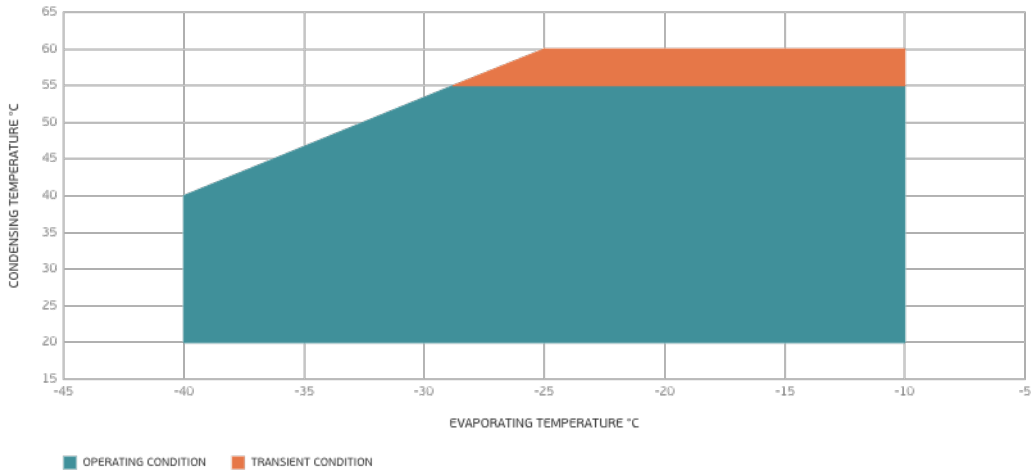
Test Condition: ASHRAE, Fan, LBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

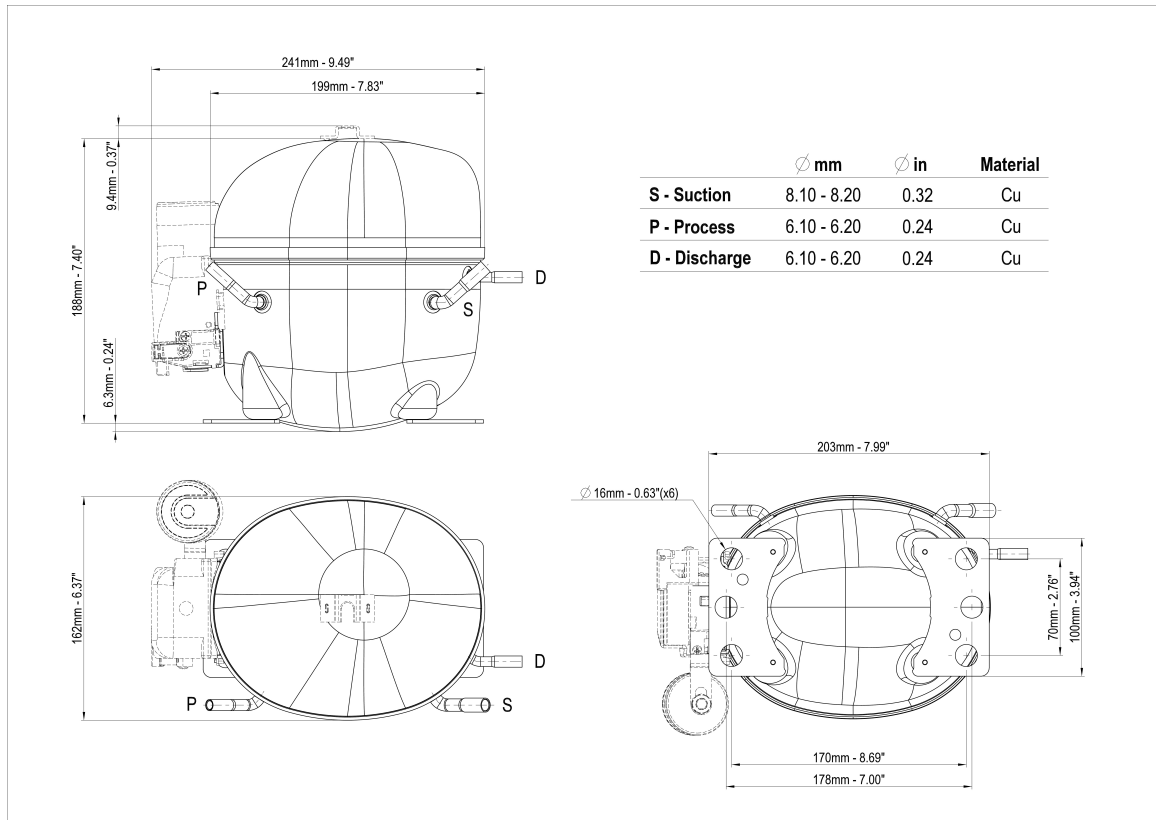
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	243	237	1.97	5.59	1.03
-25	314	268	2.03	7.25	1.17
-20	398	300	2.11	9.23	1.33
-15	494	332	2.2	11.54	1.49
-10	603	365	2.3	14.17	1.65

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

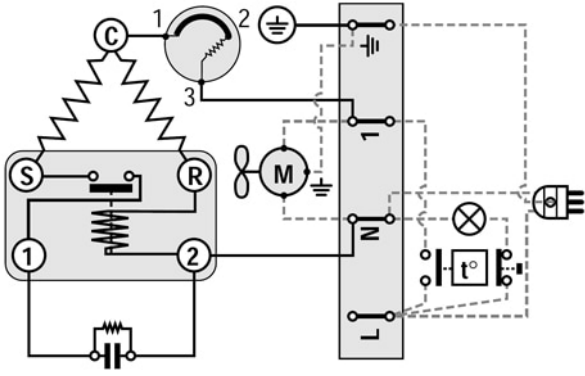
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

