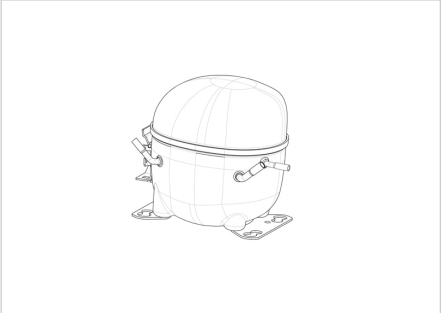
MODEL
NEK6160Y

embraco



APPROVALS

ENGINEERING CODE
861IA51

APPROVED REFRIGERANT
R-600a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
HBP

COOLING CAPACITY
685 W

EFFICIENCY
2.57 W/W

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	12.11 cm^3
Compressor Cooling	Fan
Fan Air Flow	520 m^3/h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/4 hp
Max Condensing Pressure Operating	6.73 bar
Max Condensing Pressure Peak	7.69 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-15 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	28.9 Ω at 25° C
Run Winding Resistance	6.8 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	150 g
Oil Charge	350 ml
Oil Type Configuration	Polyolester
Oil Type Viscosity	ISO22
Pressurization	Without dry air charge
Weight	10.1 Kg
Free Internal Volume	2.1 L

External Characteristics

Base Plate	European
Tray Holder	Yes
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	685 W	266 W	1.82 A	8.23 kg/h	2.57 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
-15	326	164	1.52	3.33	1.99
-10	411	178	1.56	4.21	2.31
-5	516	191	1.59	5.29	2.7
0	637	203	1.63	6.55	3.14
5	773	214	1.66	7.96	3.61
10	919	224	1.69	9.50	4.1

Test Condition: ASHRAE, Fan, HBP. 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
-15	291	173	1.55	3.20	1.68
-10	368	191	1.6	4.05	1.93
-5	464	208	1.64	5.11	2.23
0	575	223	1.69	6.36	2.57
5	699	238	1.73	7.76	2.93
10	833	252	1.78	9.29	3.3

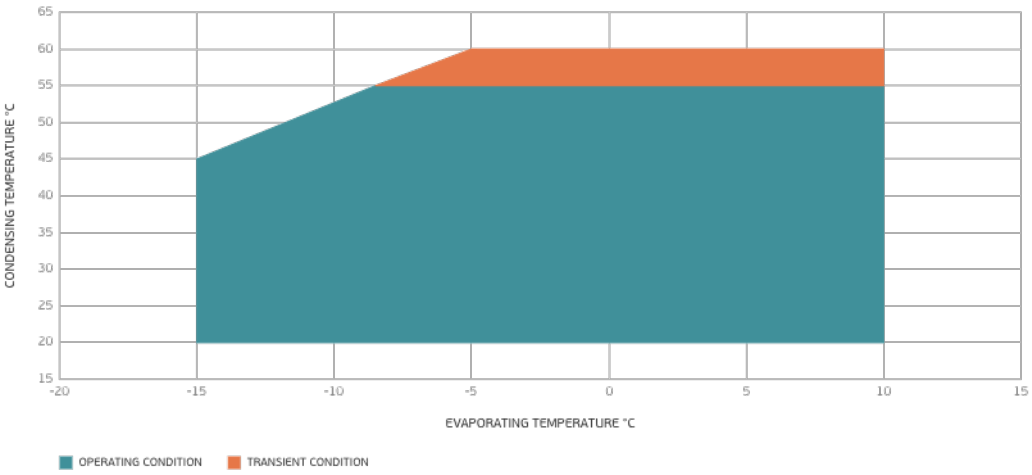
Test Condition: ASHRAE, Fan, HBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

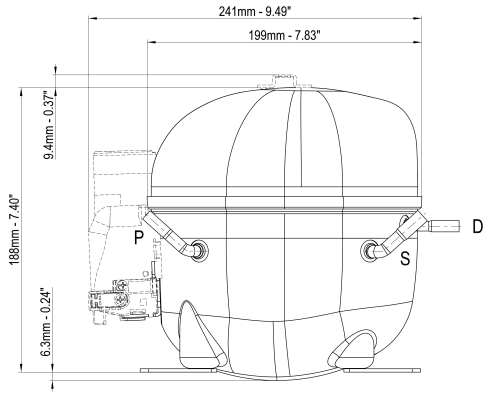
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	325	201	1.63	3.88	1.62
-5	411	221	1.69	4.93	1.86
0	513	241	1.75	6.16	2.13
5	627	259	1.8	7.56	2.42
10	751	278	1.86	9.09	2.7

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

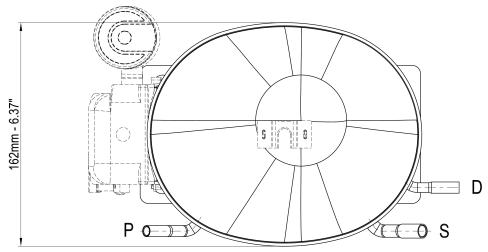
Operating Envelope

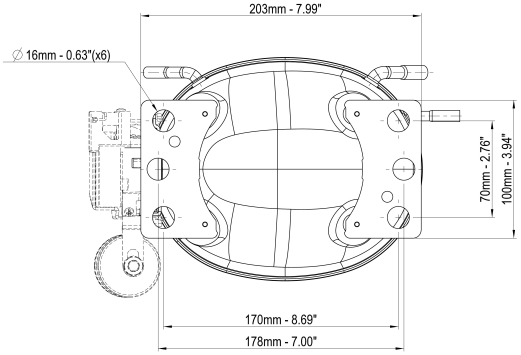


External Dimensions

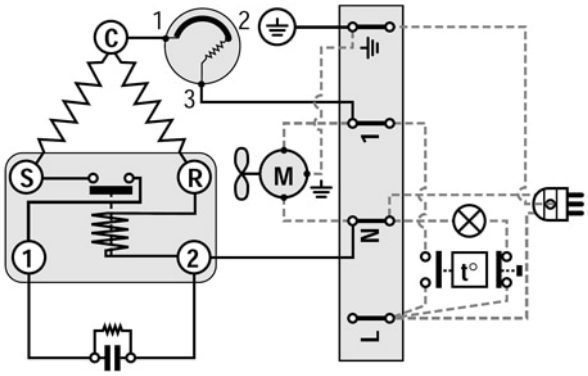


	∅ mm	∅ in	Material
S - Suction	8.10 - 8.20	0.32	Cu
P - Process	6.10 - 6.20	0.24	Cu
D - Discharge	6.10 - 6.20	0.24	Cu





Wiring Diagram



Assembly Instructions