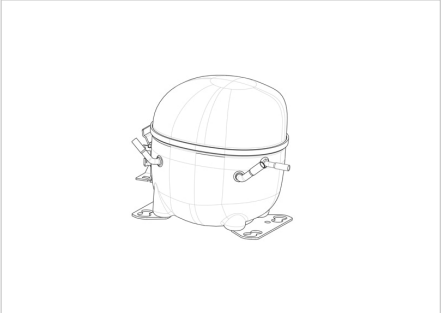
MODEL
NEK2125GK



APPROVALS

ENGINEERING CODE
957EB92

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
200-230 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
LBP

COOLING CAPACITY
170 W (LBP)

EFFICIENCY
0.99 W/W (LBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	6.2 cm^3
Compressor Cooling	Fan/NotControled/200
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	200-230 V 50 Hz / 208-230 V 60 Hz
Evaporating Temperature Range	-40 °C to -10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	27.7 Ω at 25° C
Run Winding Resistance	6 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	350 g
Oil Charge	350 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	10.4 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Start Capacitor	53-64 Uf / 330 V
Starting Device	Relay | MTRPH-0025-31*
Motor Protection	T1026-J5

External Characteristics

Base Plate	Universal
Tray Holder	No
Height	188 mm

Connector	Internal Diameter	Shape
Suction	8.1 mm	Slanted 42?/Copper
Discharge	6.1 mm	Straight/Copper
Process	6.1 mm	Slanted 42?/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
40.00°C	-35.00°C	171 W	172 W	4.57 kg/h	0.99 W/W

Test Condition: EN12900LBP, Fan/NotControled/200, Return Gas 20°C, Evaporation -35.00°C, Condensing 40.00°C, Ambient 35°C , Liquid 40°C, Subcooling 0K. Data are an indication of performance based simulation.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-40	137	152	3.49	0.9
-35	183	175	4.67	1.05
-30	241	197	6.16	1.22
-25	311	218	8.01	1.43
-20	394	238	10.21	1.65
-15	490	258	12.80	1.9
-10	599	278	15.80	2.16

Test Condition: EN12900LBP, Fan/NotControled/200, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-35	147	176	4.25	0.83
-30	195	203	5.66	0.96
-25	253	229	7.41	1.1
-20	323	256	9.51	1.26
-15	404	284	12.00	1.42
-10	496	311	14.88	1.59

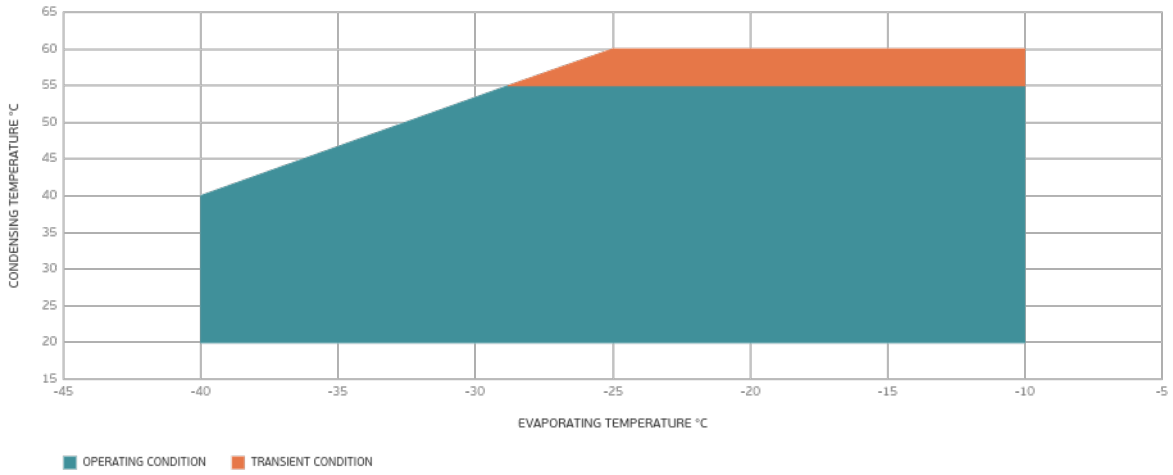
Test Condition: EN12900LBP, Fan/NotControled/200, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

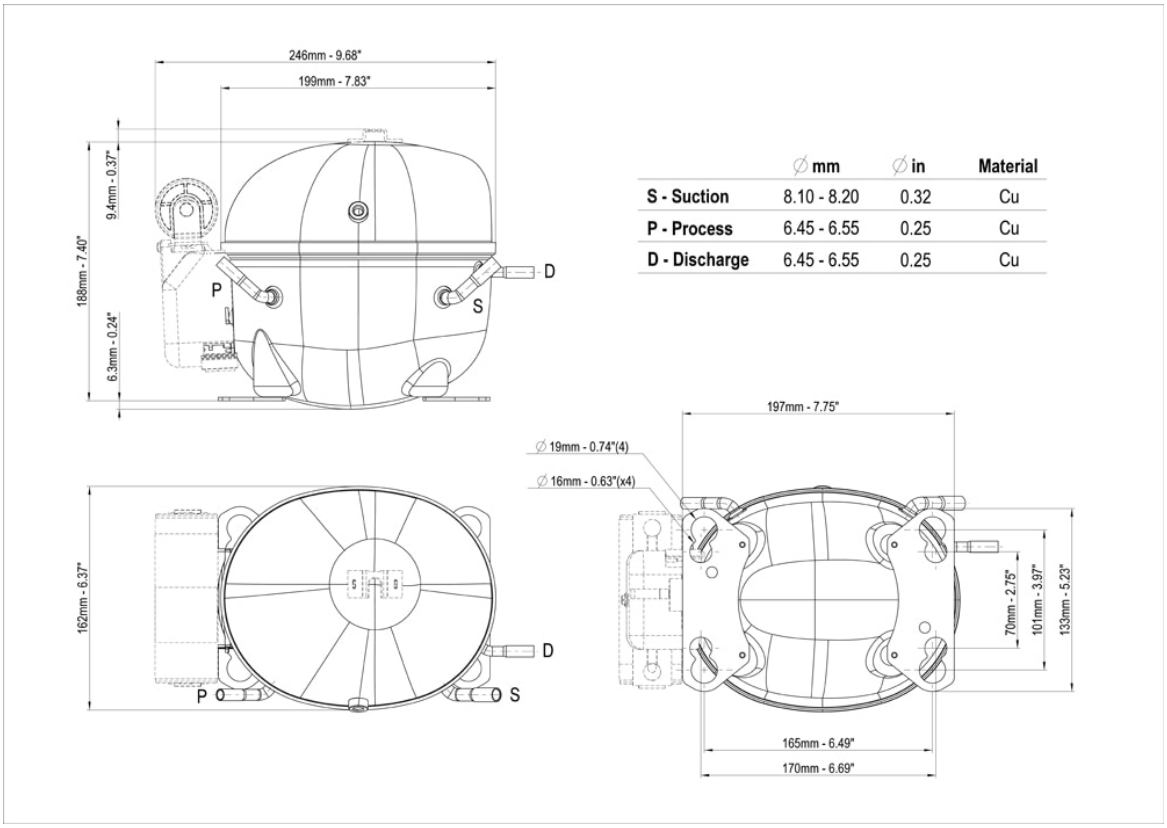
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-30	148	208	5.04	0.71
-25	194	238	6.67	0.81
-20	250	270	8.66	0.92
-15	315	303	11.03	1.04
-10	389	337	13.79	1.15

Test Condition: EN12900LBP, Fan/NotControled/200, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Operating Envelope

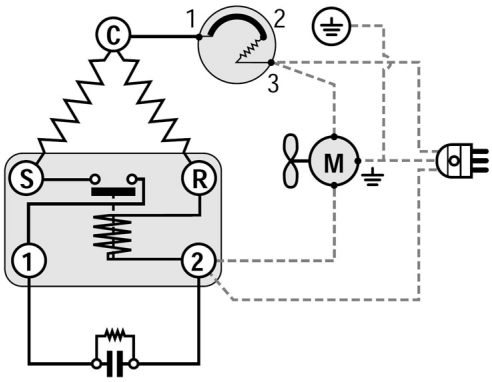


External Dimensions



	Ø mm	Ø in	Material
S - Suction	8.10 - 8.20	0.32	Cu
P - Process	6.45 - 6.55	0.25	Cu
D - Discharge	6.45 - 6.55	0.25	Cu

Wiring Diagram



Assembly Instructions