MODEL
NEK2125GK

APPROVALS

ENGINEERING CODE
957EA51

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
LBP

COOLING CAPACITY
339 W (LBP)

EFFICIENCY
1.21 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/220
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	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
Motor Protection	T0186/G6
Starting Device	Relay | MTRP-0028*

External Characteristics

Base Plate	European
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	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	339 W	279 W	2.04 A	7.84 kg/h	1.21 W/W

Test Condition: ASHRAELBP32, Fan/NotControled/220, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C , Liquid 32.2°C, Subcooling 22.2K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

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	173	180	1.81	3.96	0.96
-35	221	202	1.86	5.08	1.09
-30	279	224	1.91	6.44	1.25
-25	350	245	1.96	8.11	1.43
-20	436	266	2.01	10.15	1.64
-15	538	286	2.07	12.61	1.88
-10	659	306	2.13	15.55	2.15

Test Condition: ASHRAELBP32, Fan/NotControled/220, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	207	205	1.86	4.76	1.01
-30	265	232	1.92	6.11	1.14
-25	335	258	1.98	7.75	1.3
-20	419	285	2.05	9.73	1.47
-15	518	313	2.13	12.12	1.66
-10	636	340	2.21	14.97	1.87

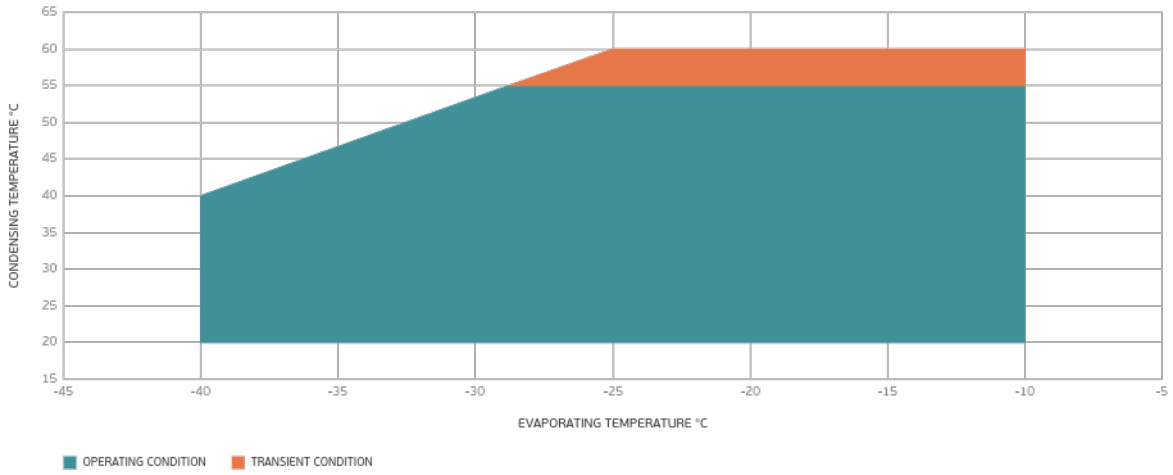
Test Condition: ASHRAELBP32, Fan/NotControled/220, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

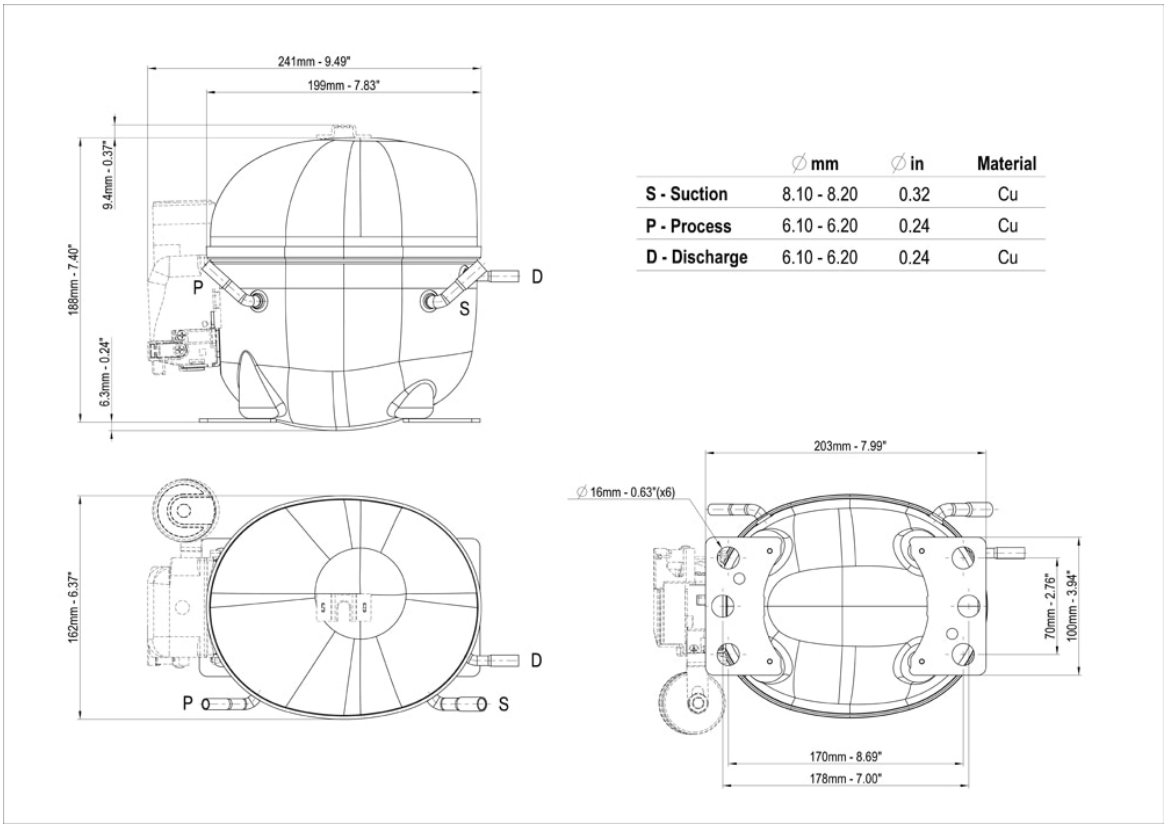
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	244	237	1.94	5.60	1.03
-25	312	268	2.01	7.21	1.17
-20	394	300	2.09	9.15	1.32
-15	492	332	2.19	11.48	1.48
-10	606	365	2.3	14.26	1.66

Test Condition: ASHRAELBP32, Fan/NotControled/220, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Operating Envelope

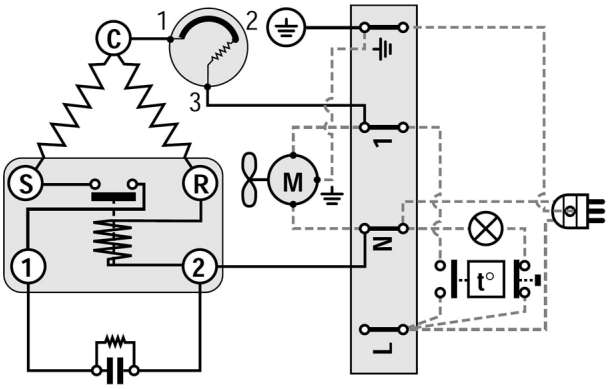


External Dimensions



	∅ 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