MODEL
NEK6214Z

APPROVALS

ENGINEERING CODE
269JA51

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
HBP

COOLING CAPACITY
1461 W (HBP)

EFFICIENCY
1.96 W/W (HBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	16.8 cm^3
Compressor Cooling	Fan/NotControled/220
Fan Air Flow	520 m^3/h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/2 hp
Max Condensing Pressure Operating	13.92 bar
Max Condensing Pressure Peak	15.62 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	10.63 Ω at 25° C
Run Winding Resistance	3.13 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	11.6 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Start Capacitor	72-88 Uf / 330 V
Starting Device	Relay | MTRPH-0012-65*
Motor Protection	T0899/G6

External Characteristics

Base Plate	European
Tray Holder	No
Height	206 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
54.40°C	7.20°C	1461 W	744 W	32.36 kg/h	1.96 W/W

Test Condition: ASHRAEHBP46, Fan/NotControled/220, Return Gas 35°C, Evaporation 7.20°C, Condensing 54.40°C, Ambient 35°C , Liquid 46.1°C, Subcooling 8.3K. 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
-15	696	417	12.84	1.67
-10	890	461	16.48	1.93
-5	1120	507	20.82	2.21
0	1389	555	25.92	2.5
5	1696	605	31.83	2.8
10	2043	657	38.59	3.11

Test Condition: ASHRAEHBP46, Fan/NotControled/220, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. 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
-15	613	440	12.22	1.39
-10	786	491	15.73	1.6
-5	994	545	19.96	1.82
0	1236	602	24.95	2.05
5	1515	662	30.76	2.29
10	1831	726	37.44	2.52

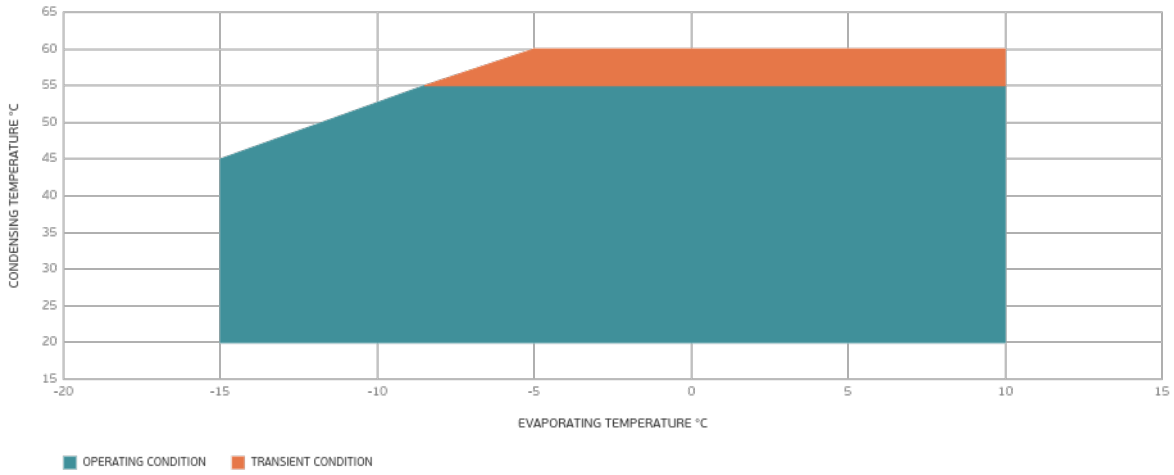
Test Condition: ASHRAEHBP46, Fan/NotControled/220, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

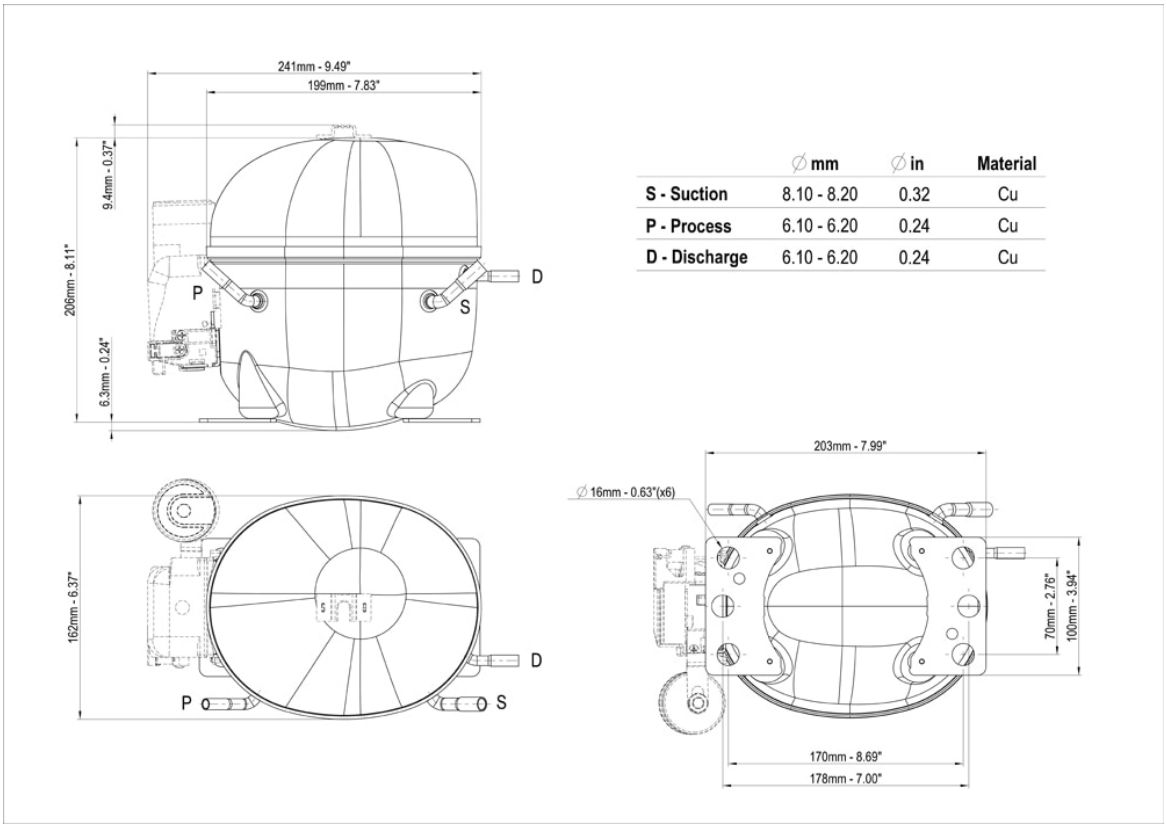
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-10	685	522	14.95	1.31
-5	867	582	19.02	1.49
0	1083	646	23.86	1.68
5	1331	715	29.53	1.86
10	1615	789	36.08	2.05

Test Condition: ASHRAEHBP46, Fan/NotControled/220, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data are an indication of performance based simulation.

Operating Envelope

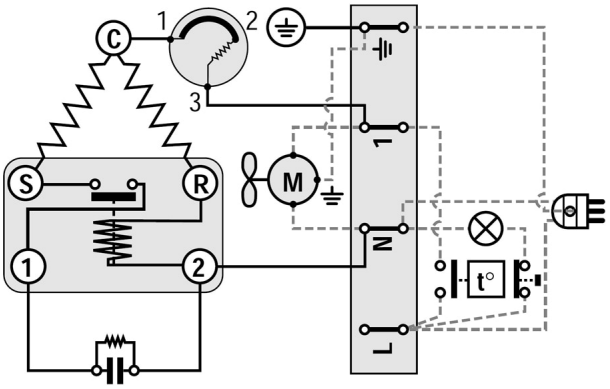


External Dimensions



	∅ 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