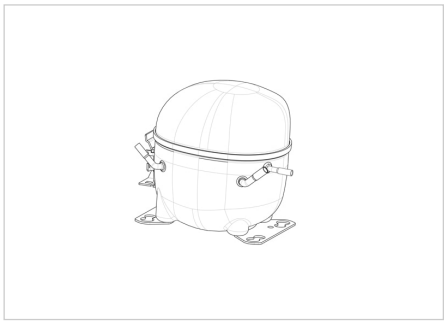
MODEL
NEK6213U



APPROVALS

ENGINEERING CODE
863CA51

APPROVED REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
MBP

COOLING CAPACITY
811 W (MBP)

EFFICIENCY
1.63 W/W (MBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	12.11 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	18.07 bar
Max Condensing Pressure Peak	20.17 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-20 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	20.88 Ω at 25° C
Run Winding Resistance	3.93 Ω at 25° C

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Mechanical Data

Maximum Recommended Refrigerant Charge	150 g
Oil Charge	350 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Without dry air charge
Weight	11.6 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Start Capacitor	53-64 Uf / 330 V
Motor Protection	T0743/G6
Starting Device	Relay | MTRP-0050*

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	Current	Gas Flow Rate	Efficiency
45.00°C	-10.00°C	812 W	497 W	3.6 A	9.99 kg/h	1.63 W/W

Test Condition: EN12900MBP, Fan/NotControled/220, Return Gas 20°C, Evaporation -10.00°C, Condensing 45.00°C, Ambient 35°C , Liquid 45°C, Subcooling 0K. Data in accordance to EN

12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

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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
-20	618	397	3.31	6.84	1.55
-15	764	427	3.4	8.52	1.79
-10	940	455	3.49	10.53	2.07
-5	1146	481	3.57	12.91	2.39
0	1383	504	3.66	15.70	2.74
5	1653	526	3.74	18.93	3.14
10	1956	546	3.82	22.63	3.58

Test Condition: EN12900MBP, Fan/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. 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
-20	531	421	3.37	6.46	1.26
-15	659	460	3.49	8.06	1.43
-10	812	497	3.6	9.99	1.63
-5	991	533	3.71	12.27	1.86
0	1197	567	3.82	14.96	2.11
5	1433	600	3.93	18.07	2.39
10	1697	630	4.03	21.65	2.7

Test Condition: EN12900MBP, Fan/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. 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
-10	677	545	3.74	9.30	1.24
-5	829	586	3.9	11.48	1.41
0	1005	626	4.05	14.05	1.61
5	1206	665	4.19	17.03	1.81
10	1433	701	4.33	20.48	2.04

Test Condition: EN12900MBP, Fan/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

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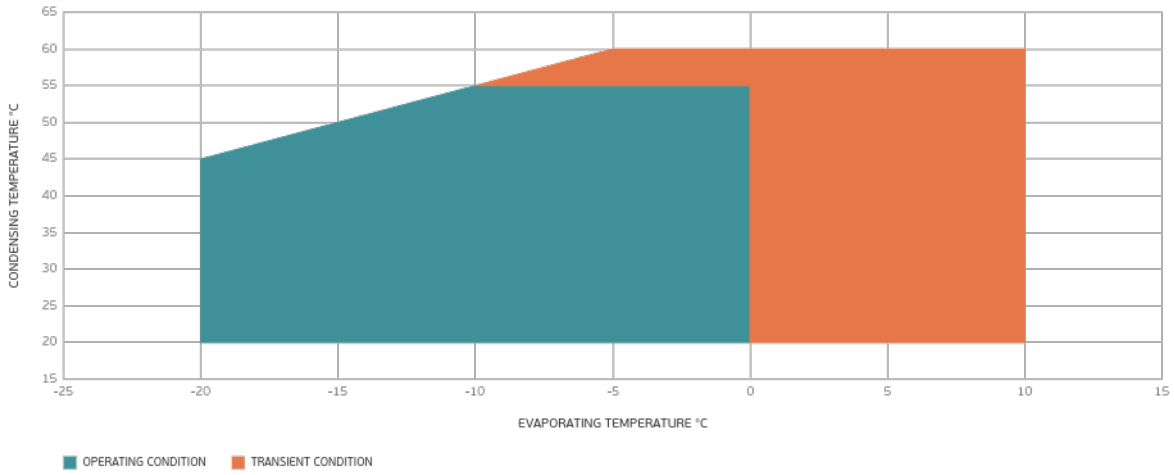
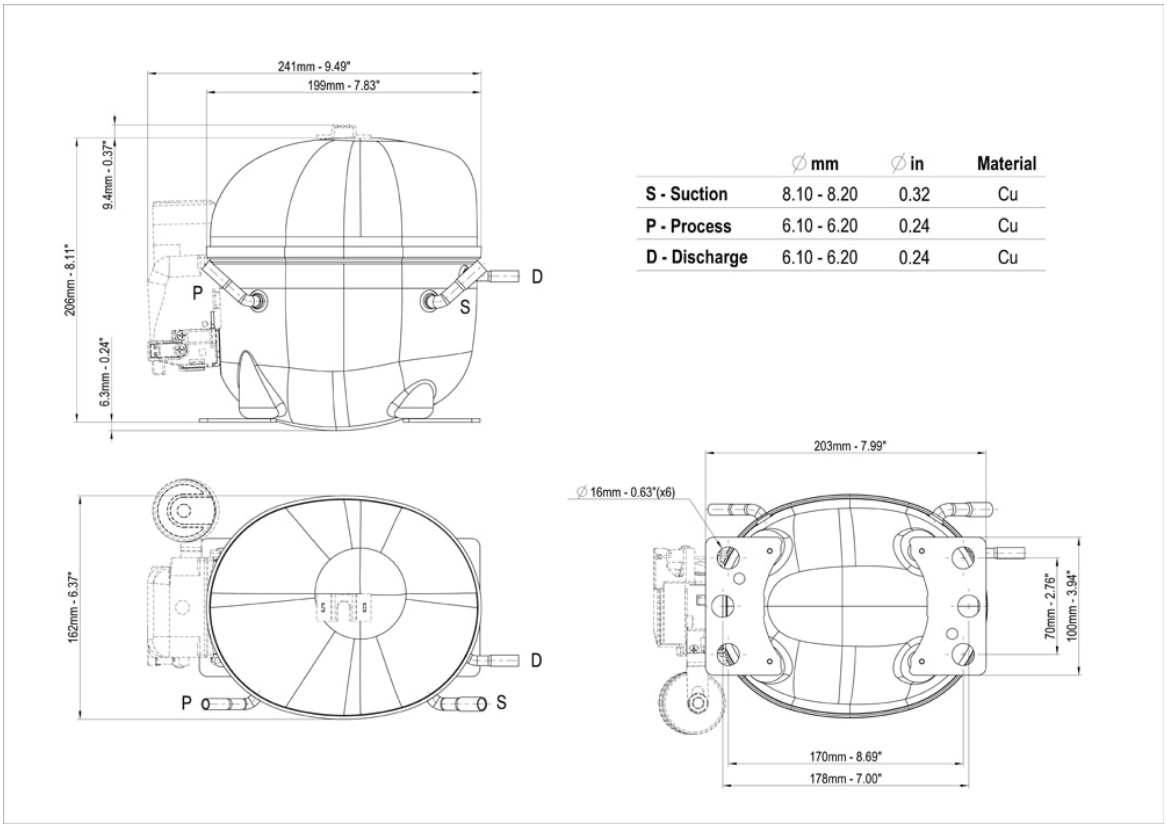
Operating Envelope

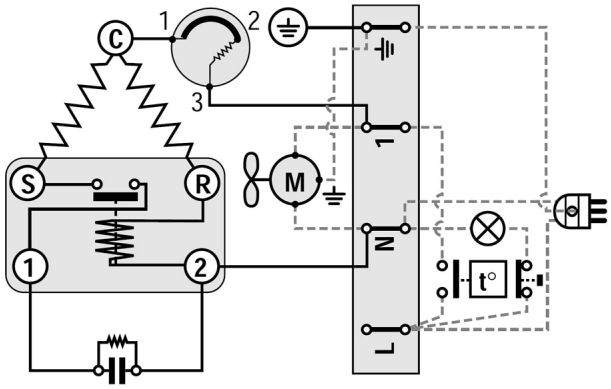


External Dimensions

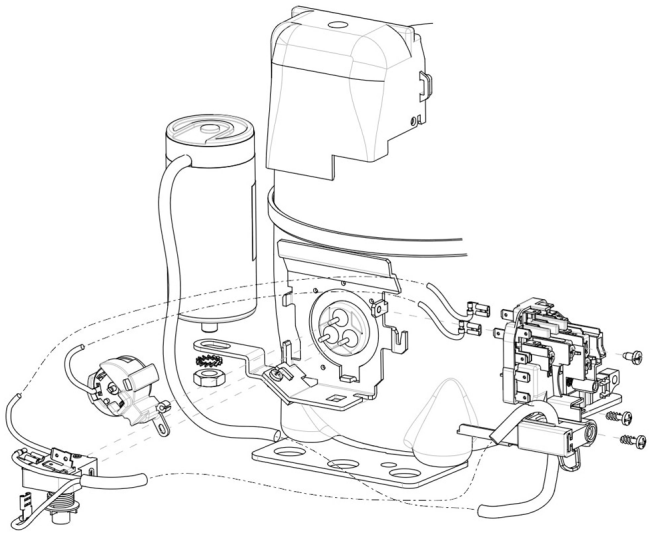


	∅ mm	∅ in	Material
S - Suction	8.10 - 8.20	0.32	Cu
P - Process	6.10 - 6.20	0.24	Cu
D - Discharge	6.10 - 6.20	0.24	Cu

Wiring Diagram



Assembly Instructions



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