

NEK6152U



ENGINEERING CODE
861DA51



REFRIGERANT
R-290



POWER SUPPLY
220-240 V 50 Hz



APPLICATION
HBP



MOTOR TYPE
CSIR



STANDARD
ASHRAE



COOLING CAPACITY
739 W



EFFICIENCY
2.6 W/W



DATA

GENERAL DATA

Model	NEK6152U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	HBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/4
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	27.4 Ω at 25°C
Run Winding Resistance	7.9 Ω at 25°C

MECHANICAL DATA

Displacement	5.44 cm ³
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	10.4 Kg

ELECTRICAL COMPONENTS

Start Capacitor	43-53 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	MTRP-0029*
Overload Protection	T0186/G6

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	HBP
Tested Standard	ASHRAE
Tested Cooling	Fan
Tested Voltage	220 V
Refrigerant Temperature	Dew

RATED POINTS

Condensing Temperature °C	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
54.4	7.2	739	2.6	284	1.7	8.62

Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-15	403	2.12	190	1.34	3.89
-10	492	2.45	201	1.39	4.77
-5	597	2.83	211	1.43	5.82
0	720	3.30	218	1.46	7.06
5	861	3.92	220	1.49	8.50
10	1022	4.77	214	1.52	10.16

Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-15	362	1.77	205	1.39	3.78
-10	442	2.04	217	1.44	4.63
-5	536	2.33	230	1.49	5.65
0	646	2.64	244	1.53	6.85
5	772	3.02	256	1.58	8.25
10	916	3.49	262	1.62	9.87

Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	387	1.68	230	1.49	4.44
-5	470	1.93	244	1.55	5.42
0	567	2.17	261	1.61	6.58
5	679	2.44	278	1.68	7.94
10	806	2.75	293	1.75	9.51

Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



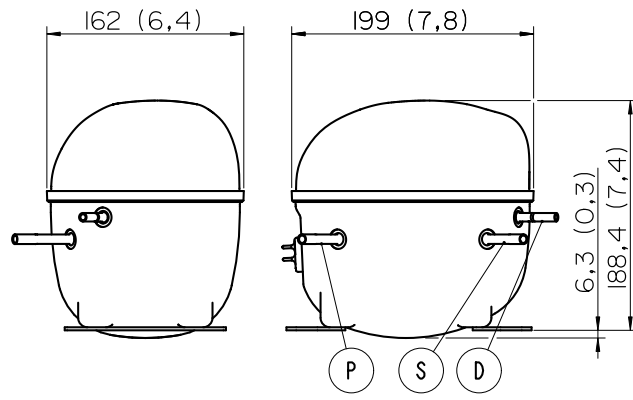
External

EXTERNAL CHARACTERISTICS

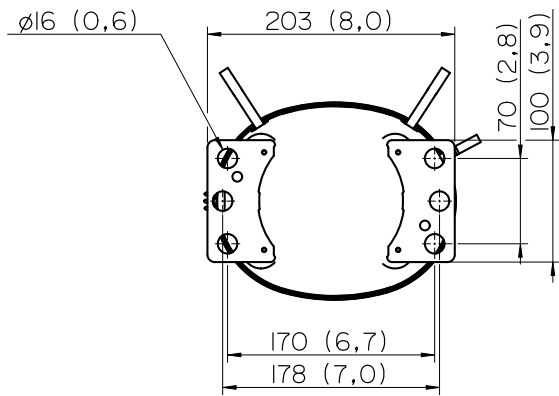
Base Plate		SMALL	
Tray Holder		NO	
Connector	Internal Diameter	Shape	Material
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.1 mm	STRAIGHT	COPPER
Process	6.1 mm	SLANTED 42°	COPPER

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE

