

NEK6187Z



ENGINEERING CODE
268AG71



REFRIGERANT
R-134a



POWER SUPPLY
115 V 60 Hz



APPLICATION
HBP



MOTOR TYPE
CSIR



STANDARD
ASHRAE



COOLING CAPACITY
1130 W



EFFICIENCY
2.33 W/W

DATA

GENERAL DATA

Model	NEK6187Z
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	HBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/115
HP	1/3
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	6.1 Ω at 25°C
Run Winding Resistance	0.96 Ω at 25°C

MECHANICAL DATA

Displacement	9.99 cm³
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11 Kg

ELECTRICAL COMPONENTS

Start Capacitor	189-227 µf/165 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	T0389/G9

EXTERNAL CHARACTERISTICS

Base Plate	UNI
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Connector	Internal Diameter	Shape	Material
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.45 mm	STRAIGHT	COPPER
Process	6.45 mm	SLANTED 42°	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	HBP
Tested Standard	ASHRAE
Tested Cooling	Fan
Tested Voltage	115 V
Tested Frequency	60 Hz
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	1130	2.33	485	5.81	25
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	549	1.99	276	4.60	10.13
-10	694	2.28	304	4.70	12.85
-5	867	2.58	336	4.84	16.11
0	1072	2.92	367	5.02	20.01
5	1312	3.35	392	5.23	24.63
10	1592	3.92	407	5.49	30.08
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

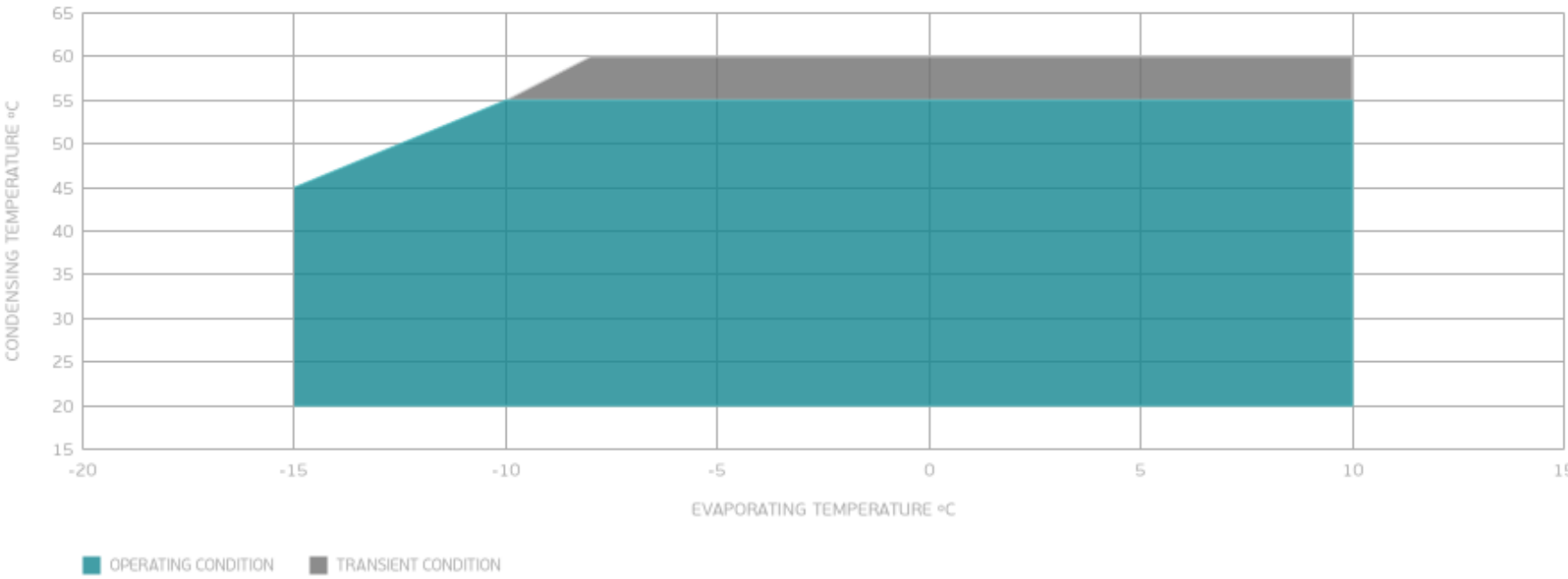
Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-15	479	1.60	300	4.68	9.55
-10	607	1.85	328	4.85	12.14
-5	762	2.09	365	5.03	15.30
0	947	2.33	406	5.25	19.12
5	1167	2.62	446	5.49	23.69
10	1424	2.97	480	5.75	29.12
Test Condition: Subcooling 8.3 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	529	1.58	335	4.94	11.54
-5	664	1.79	371	5.18	14.54
0	827	1.99	416	5.43	18.23
5	1023	2.20	465	5.69	22.70
10	1255	2.45	512	5.98	28.04
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 DIMENSIONS

