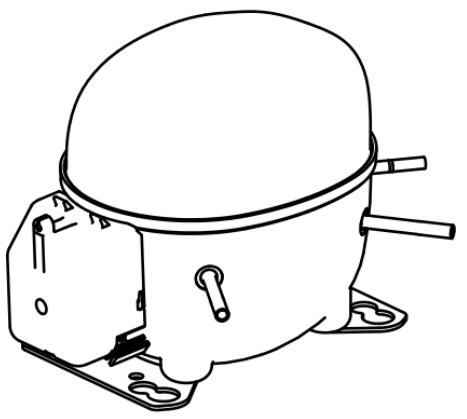
COMPRESSOR TECHNICAL DATA

NEK6187Z



ENGINEERING CODE
268JA58

REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
HBP

MOTOR TYPE
CSIR

STANDARD
EN12900

COOLING CAPACITY
900 W

EFFICIENCY
2.17 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/220
HP	1/3
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	28.84 Ω at 25°C
Run Winding Resistance	6.67 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	15 A

MECHANICAL DATA

Displacement	9.99 cm^3
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	10.2 Kg

ELECTRICAL COMPONENTS

Start Capacitor	64-77 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	T1026

EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	YES

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

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	HBP
Tested Standard	EN12900
Tested Cooling	Fan
Tested Voltage	220 V
Tested Frequency	50 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
50	5	900	2.17	415	-	22.57

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

PERFORMANCE CURVE

Condensing Temperature 35ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-15	451	1.80	251	-	9.54
-10	574	2.08	275	-	12.20
-5	721	2.38	303	-	15.41
0	894	2.72	328	-	19.23
5	1095	3.15	348	-	23.73
10	1326	3.71	357	-	29.00

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

PERFORMANCE CURVE

Condensing Temperature 45ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-15	393	1.44	273	-	9.11
-10	502	1.69	298	-	11.72
-5	633	1.92	330	-	14.85
0	788	2.16	365	-	18.60
5	966	2.42	399	-	23.01
10	1171	2.74	428	-	28.16

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

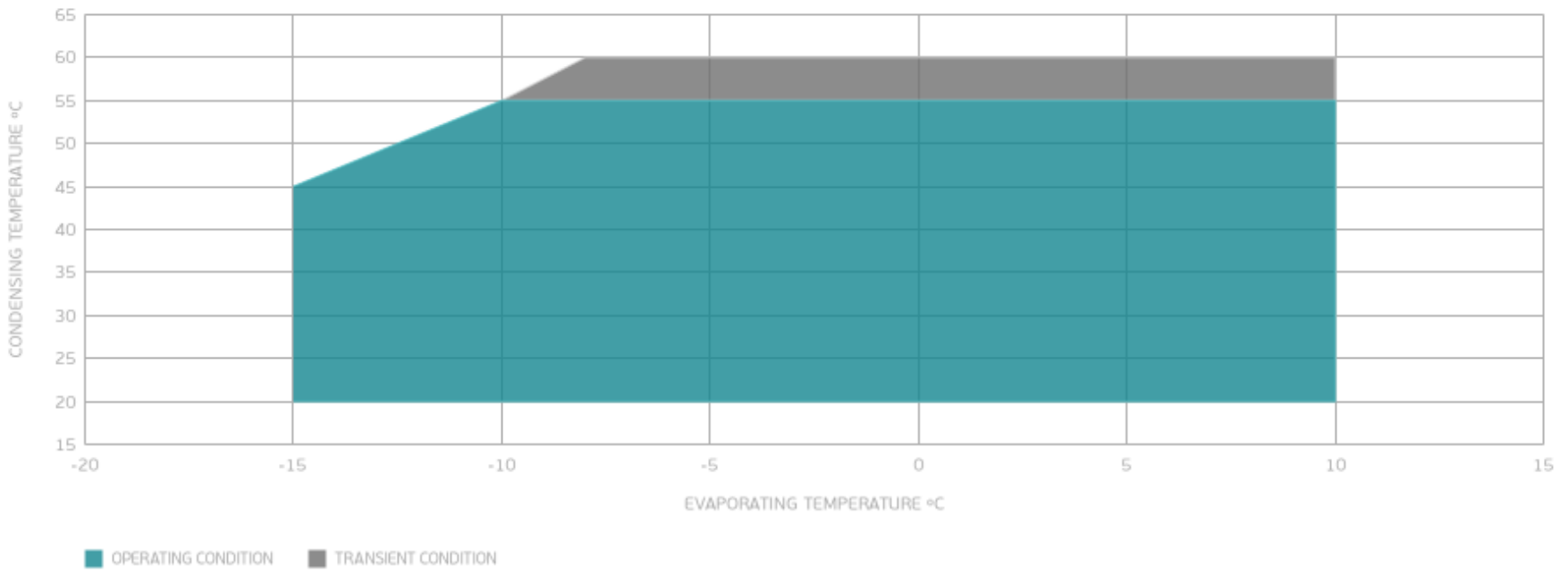
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	426	1.37	311	-	11.04
-5	541	1.58	342	-	14.11
0	676	1.77	381	-	17.76
5	832	1.96	424	-	22.08
10	1011	2.17	466	-	27.12

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

ENVELOPE



EXTERNAL DIMENSIONS