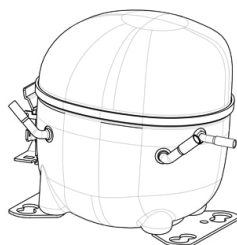


NEK6181GK



ENGINEERING CODE
957MA51

REFRIGERANT
R-404A

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
MBP

MOTOR TYPE
CSIR

STANDARD
AHRI

COOLING CAPACITY
686 W

EFFICIENCY
1.8 W/W



DATA

GENERAL DATA

Model	NEK6181GK
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	MBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/3+
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	28.2 Ω at 25°C
Run Winding Resistance	6.1 Ω at 25°C

MECHANICAL DATA

Displacement	7.28 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
Overload Protection	T0874/G6

EXTERNAL CHARACTERISTICS

Base Plate	SMALL
------------	-------

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-404A
Tested Application	MBP
Tested Standard	AHRI
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
43.3	-6.7	686	1.8	380	-	20.5

Test Condition: Subcooling 0 K, Return Gas 18.3 °C. Data are an indication of performance based simulation.

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
-20	467	1.69	277	-	12.22
-15	574	1.93	297	-	15.21
-10	704	2.18	323	-	18.78
-5	856	2.45	350	-	23.08
0	1034	2.76	374	-	28.21
5	1238	3.15	393	-	34.33
10	1470	3.66	401	-	41.55

Test Condition: Subcooling 0 K, Return Gas 18.3 °C. Data are an indication of performance based simulation.

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
-20	387	1.24	312	-	11.54
-15	475	1.42	334	-	14.30
-10	581	1.60	364	-	17.67
-5	707	1.78	398	-	21.77
0	855	1.98	432	-	26.73
5	1026	2.21	463	-	32.67
10	1221	2.51	487	-	39.74

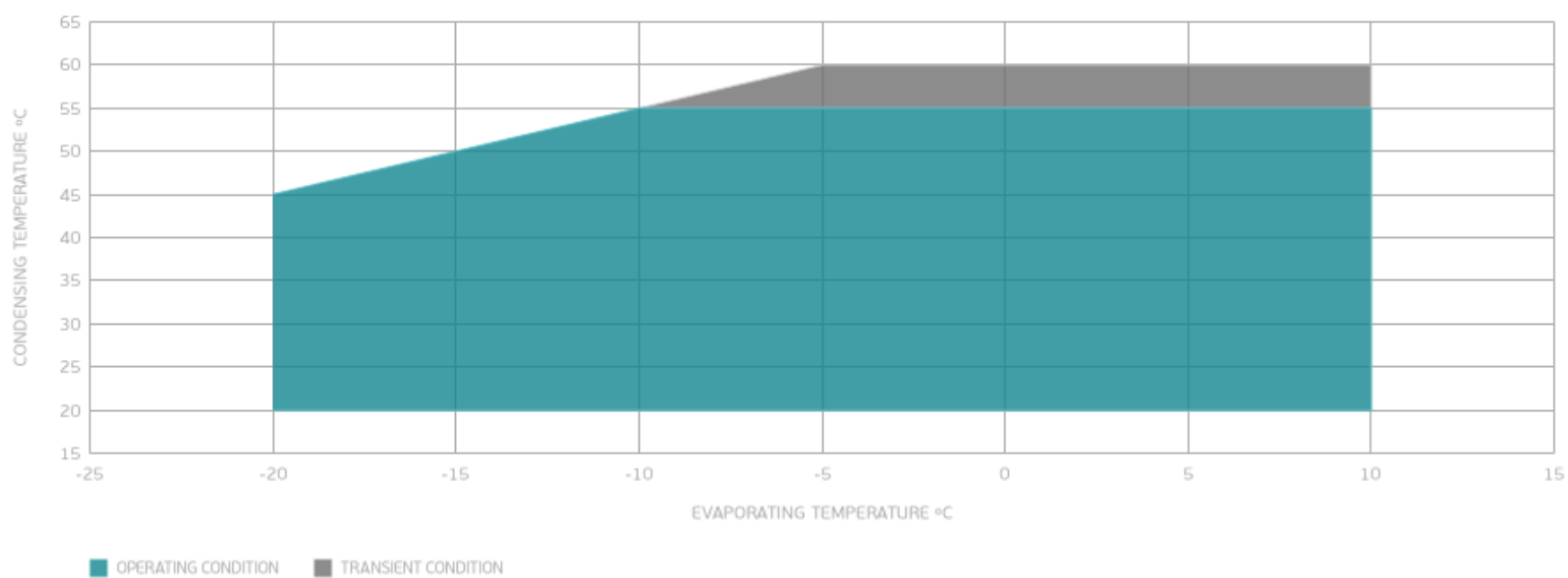
Test Condition: Subcooling 0 K, Return Gas 18.3 °C. Data are an indication of performance based simulation.

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	461	1.22	377	-	16.58
-5	559	1.35	415	-	20.41
0	675	1.48	456	-	25.12
5	811	1.63	497	-	30.84
10	968	1.81	533	-	37.68

Test Condition: Subcooling 0 K, Return Gas 18.3 °C. Data are an indication of performance based simulation.

ENVELOPE



EXTERNAL DIMENSIONS

