


NEK6181GK



 **ENGINEERING CODE**
957MA51

 **REFRIGERANT**
R-404A

 **POWER SUPPLY**
220-240 V 50 Hz

 **APPLICATION**
MBP

 **MOTOR TYPE**
CSIR

 **STANDARD**
EN12900

 **COOLING CAPACITY**
584 W

 **EFFICIENCY**
1.61 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	null
Run Winding Resistance	null

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
Starting Device Description	MTRP-41*
Overload Protection	T0874/G6

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-404A
Tested Application	MBP
Tested Standard	EN12900
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
45	-10	584	1.61	363	-	17.53

Test Condition: Subcooling 0 K, Return Gas 20 °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	471	1.68	280	-	12.19
-15	577	1.92	300	-	15.11
-10	706	2.17	325	-	18.62
-5	858	2.45	351	-	22.85
0	1036	2.77	374	-	27.93
5	1241	3.17	391	-	33.98
10	1474	3.68	400	-	41.13

Test Condition: Subcooling 0 K, Return Gas 20 °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	391	1.26	311	-	11.51
-15	478	1.43	333	-	14.21
-10	584	1.61	363	-	17.53
-5	710	1.79	396	-	21.57
0	859	1.99	431	-	26.48
5	1031	2.23	463	-	32.37
10	1229	2.51	489	-	39.37

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

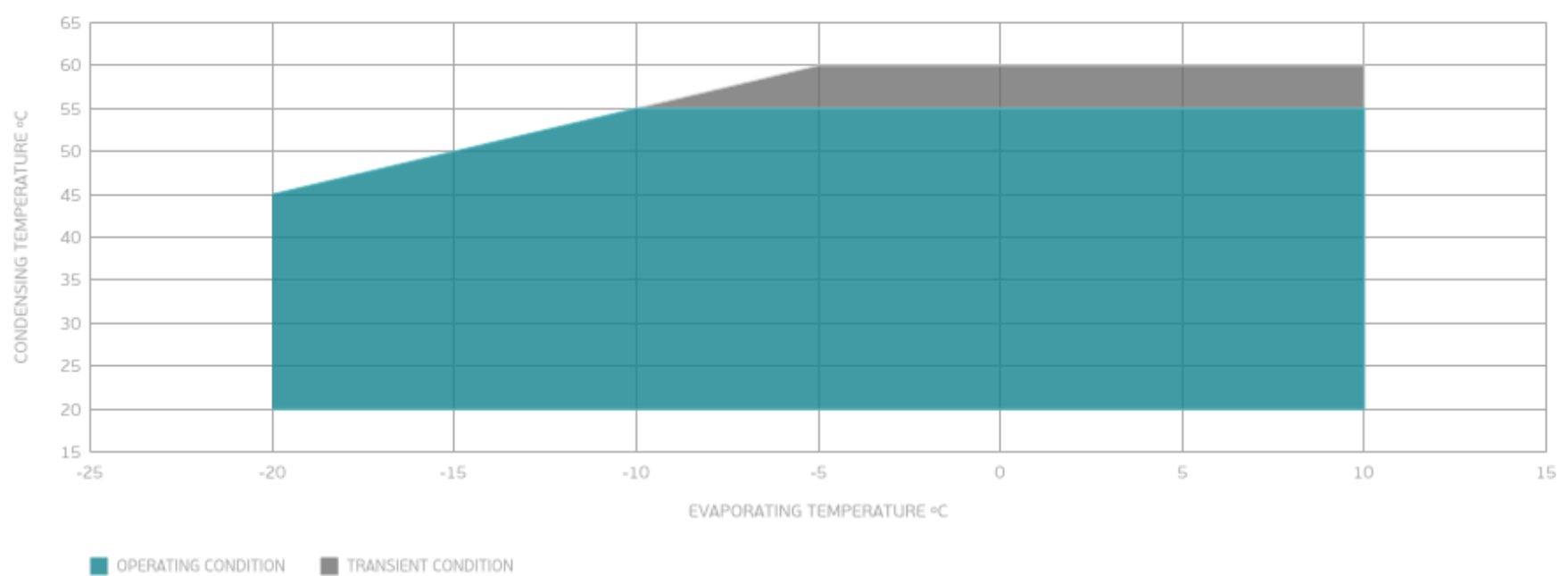
PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	463	1.23	376	-	16.42
-5	562	1.36	415	-	20.21
0	680	1.49	457	-	24.88
5	817	1.63	500	-	30.54
10	977	1.81	541	-	37.32

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

ENVELOPE



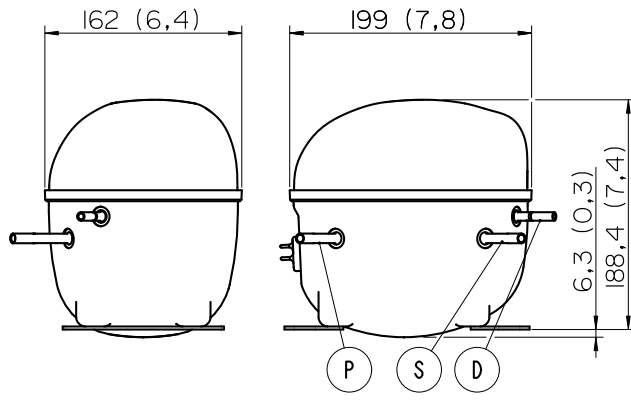
External

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

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE

