

NEK6165GK



**ENGINEERING CODE**  
957IA51



**REFRIGERANT**  
R-404A



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



**APPLICATION**  
MBP



**MOTOR TYPE**  
CSIR



**STANDARD**  
ASHRAE



**COOLING CAPACITY**  
587 W



**EFFICIENCY**  
1.57 W/W



DATA

GENERAL DATA

Model	NEK6165GK
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	28.9 Ω at 25°C
Run Winding Resistance	6.8 Ω at 25°C

## MECHANICAL DATA

Displacement	6.2 cm <sup>3</sup>
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-38*
Overload Protection	T0660/G5

## PERFORMANCE

### TESTED CONDITIONS

Tested Refrigerant	R-404A
Tested Application	MBP
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	-6.7	587	1.57	373	2.17	16.01

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
-20	506	2.06	246	1.70	10.97
-15	600	2.23	269	1.79	13.13
-10	714	2.42	295	1.87	15.70
-5	851	2.66	320	1.95	18.82
0	1015	2.98	340	2.02	22.65
5	1211	3.44	352	2.09	27.33
10	1444	4.11	351	2.15	33.01

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
-20	435	1.58	275	1.77	10.42
-15	517	1.72	301	1.88	12.48
-10	616	1.86	331	1.99	14.96
-5	735	2.02	364	2.09	17.99
0	878	2.23	394	2.19	21.72
5	1051	2.51	420	2.28	26.30
10	1257	2.89	435	2.38	31.88

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

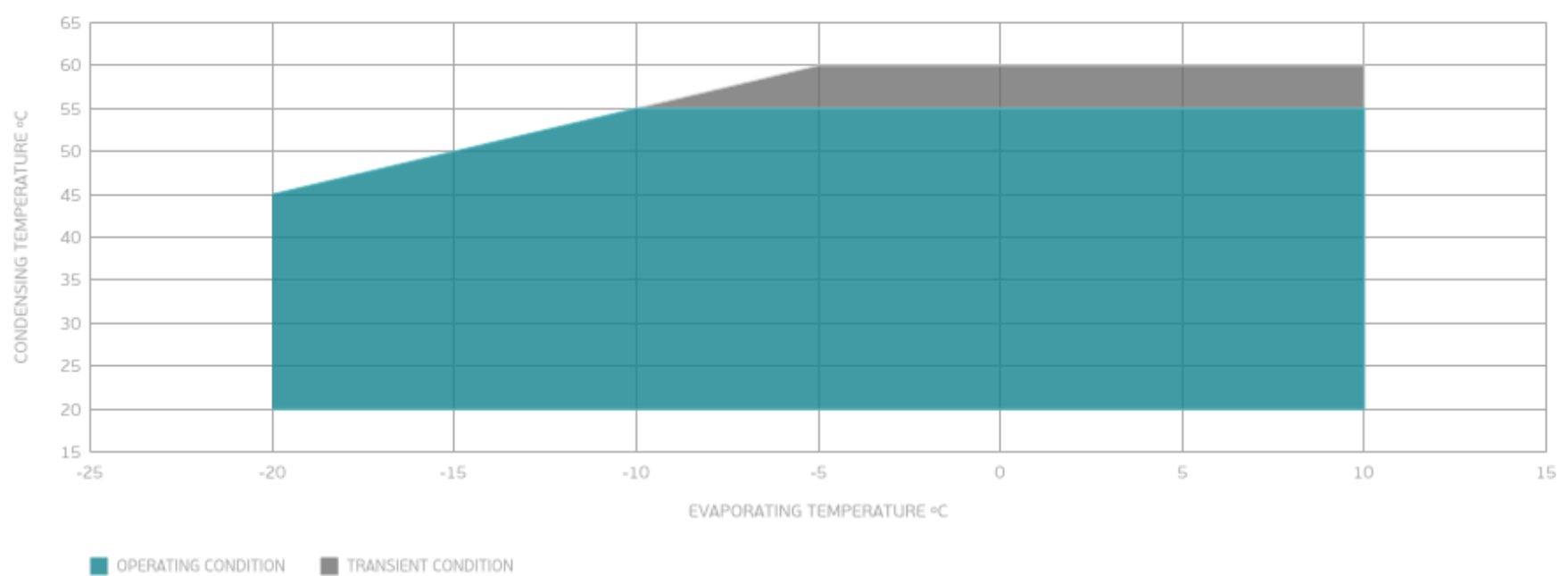
## PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	516	1.48	350	2.09	14.10
-5	617	1.59	387	2.22	17.01
0	739	1.74	425	2.35	20.63
5	887	1.93	460	2.48	25.09
10	1066	2.18	489	2.61	30.54

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

## ENVELOPE



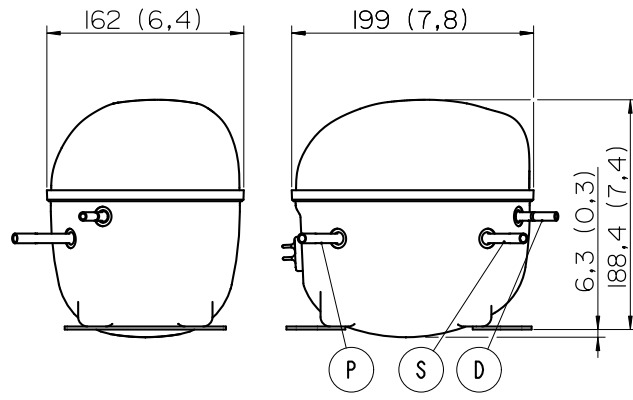
## External

### EXTERNAL CHARACTERISTICS

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

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE

