

NEK6144GK



**ENGINEERING CODE**  
957GA50



**REFRIGERANT**  
R-404A



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



**APPLICATION**  
MBP



**MOTOR TYPE**  
CSIR



**STANDARD**  
ASHRAE



**COOLING CAPACITY**  
424 W



**EFFICIENCY**  
1.68 W/W



DATA

GENERAL DATA

Model	NEK6144GK
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	MBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/4
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	27.4 $\Omega$ at 25°C
Run Winding Resistance	7.9 $\Omega$ at 25°C

## MECHANICAL DATA

Displacement	4.51 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	T0186/G6

## 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	424	1.68	253	1.55	11.56

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	354	2.01	176	1.28	7.69
-15	430	2.25	191	1.32	9.39
-10	521	2.53	206	1.37	11.46
-5	631	2.87	220	1.41	13.97
0	761	3.30	230	1.45	16.99
5	914	3.89	235	1.48	20.62
10	1091	4.72	231	1.51	24.94

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	302	1.56	193	1.30	7.24
-15	367	1.76	209	1.37	8.87
-10	446	1.96	228	1.44	10.84
-5	541	2.19	247	1.50	13.24
0	653	2.46	265	1.55	16.15
5	785	2.81	280	1.60	19.65
10	940	3.26	288	1.65	23.83

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

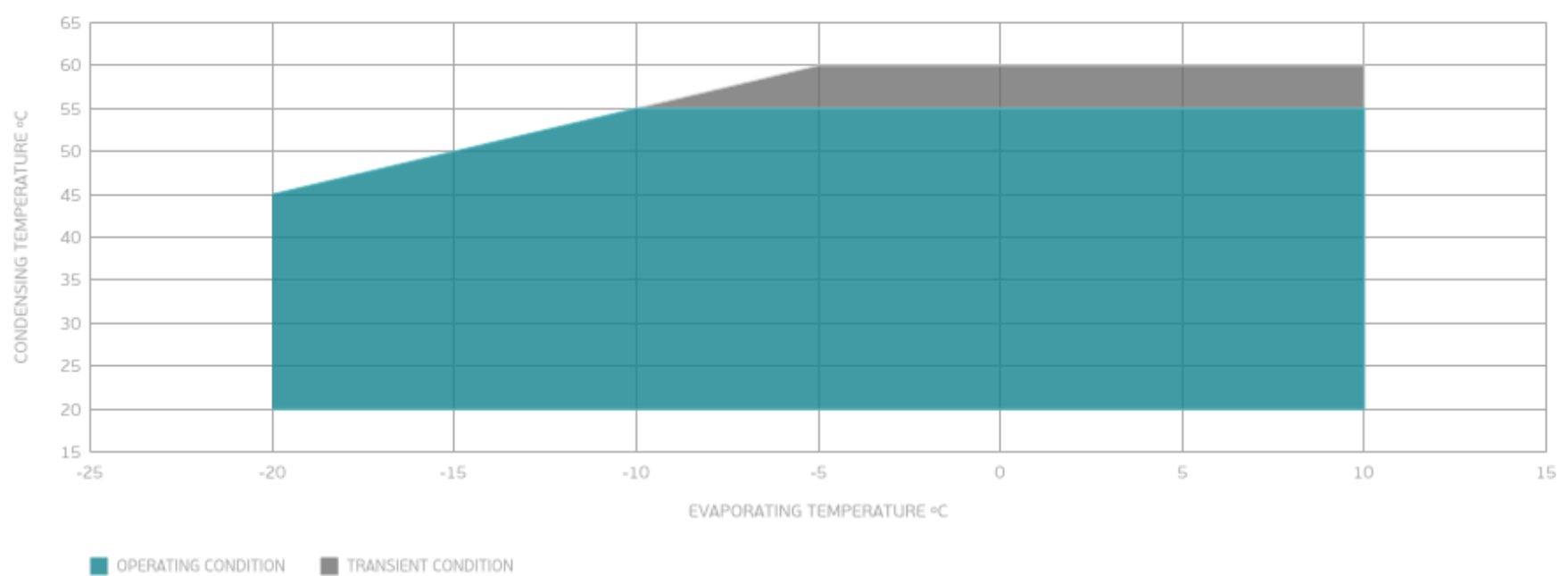
## PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	368	1.54	238	1.50	10.05
-5	447	1.71	261	1.58	12.33
0	541	1.90	285	1.66	15.11
5	653	2.13	307	1.73	18.47
10	785	2.41	326	1.80	22.49

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

## ENVELOPE



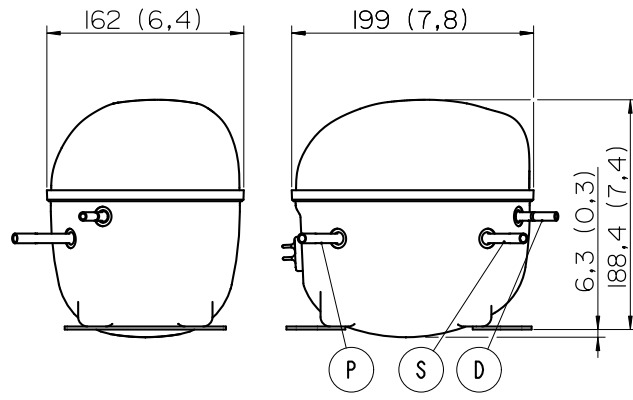
## External

### 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

