

NEK6144GK



**ENGINEERING CODE**  
957GA50



**REFRIGERANT**  
R-404A



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



**APPLICATION**  
MBP



**MOTOR TYPE**  
CSIR



**STANDARD**  
EN12900



**COOLING CAPACITY**  
385 W



**EFFICIENCY**  
1.7 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 Ω at 25°C
Run Winding Resistance	7.9 Ω 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	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	385	1.7	226	-	11.56

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	315	1.79	176	-	8.16
-15	382	2.01	190	-	9.99
-10	464	2.26	205	-	12.22
-5	562	2.56	219	-	14.95
0	678	2.96	229	-	18.28
5	815	3.49	234	-	22.31
10	973	4.23	230	-	27.16

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	261	1.36	192	-	7.69
-15	317	1.53	208	-	9.44
-10	385	1.70	226	-	11.56
-5	467	1.90	245	-	14.17
0	563	2.14	263	-	17.37
5	677	2.44	277	-	21.26
10	810	2.84	286	-	25.95

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

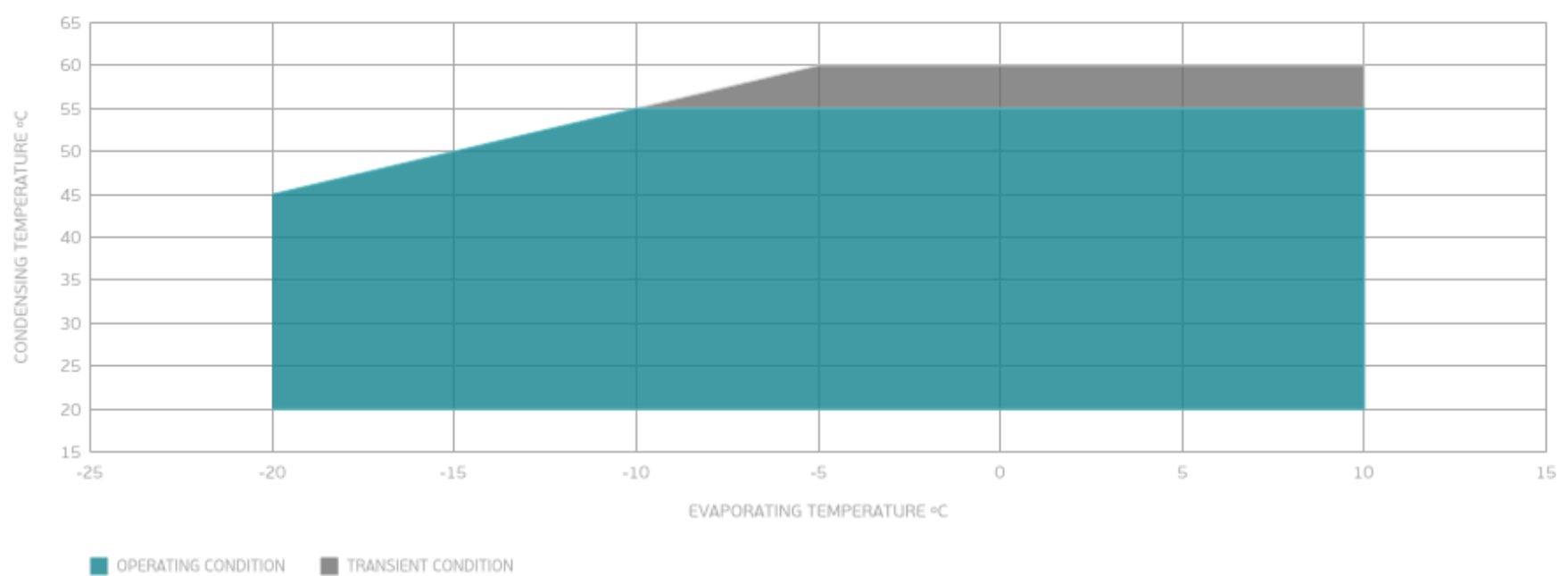
## PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	303	1.28	237	-	10.72
-5	367	1.42	259	-	13.19
0	444	1.58	282	-	16.25
5	535	1.76	303	-	19.98
10	641	2.00	321	-	24.49

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

## ENVELOPE



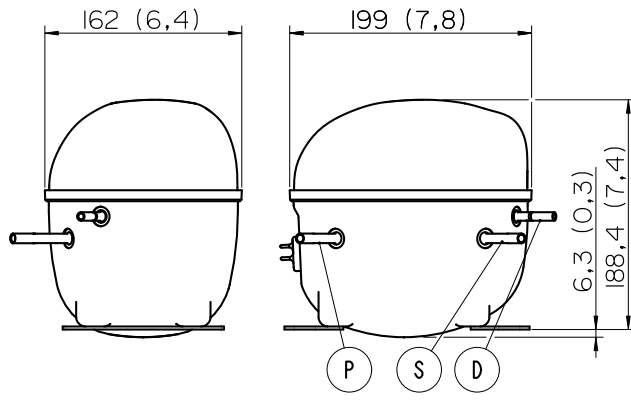
## External

### EXTERNAL CHARACTERISTICS

Base Plate		SMALL	
Tray Holder		NO	
<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

