

NEK1116Z



**ENGINEERING CODE**  
268EA47



**REFRIGERANT**  
R-134a



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



**APPLICATION**  
LBP



**MOTOR TYPE**  
RSIR/RSCR



**STANDARD**  
EN12900



**COOLING CAPACITY**  
98 W



**EFFICIENCY**  
1.15 W/W



DATA

GENERAL DATA

Model	NEK1116Z
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
HP	1/5
Starting Torque	LST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	17.6 Ω at 25°C
Run Winding Resistance	13.2 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	5.3 A
Rated Load Amperage (LMBP) at 50 Hz	0.8 A

## MECHANICAL DATA

Displacement	7.37 cm <sup>3</sup>
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	10.8 Kg

## ELECTRICAL COMPONENTS

Run Capacitor	4.0 µf/400 V
CSR CSIR BOX	No
Starting Device Type	PTC
Starting Device Description	V230
Overload Protection	T0503/07

## PERFORMANCE

### TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	LBP
Tested Standard	EN12900
Tested Cooling	Static
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
40	-35	98	1.15	86	-	2.14

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
-35	108	1.28	84	-	2.25
-30	147	1.49	99	-	3.09
-25	197	1.71	115	-	4.15
-20	258	1.96	132	-	5.45
-15	332	2.23	149	-	7.02
-10	418	2.54	165	-	8.88

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
-35	88	1.02	86	-	2.01
-30	123	1.19	103	-	2.83
-25	168	1.37	122	-	3.87
-20	222	1.55	143	-	5.13
-15	287	1.75	164	-	6.66
-10	363	1.95	186	-	8.47

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

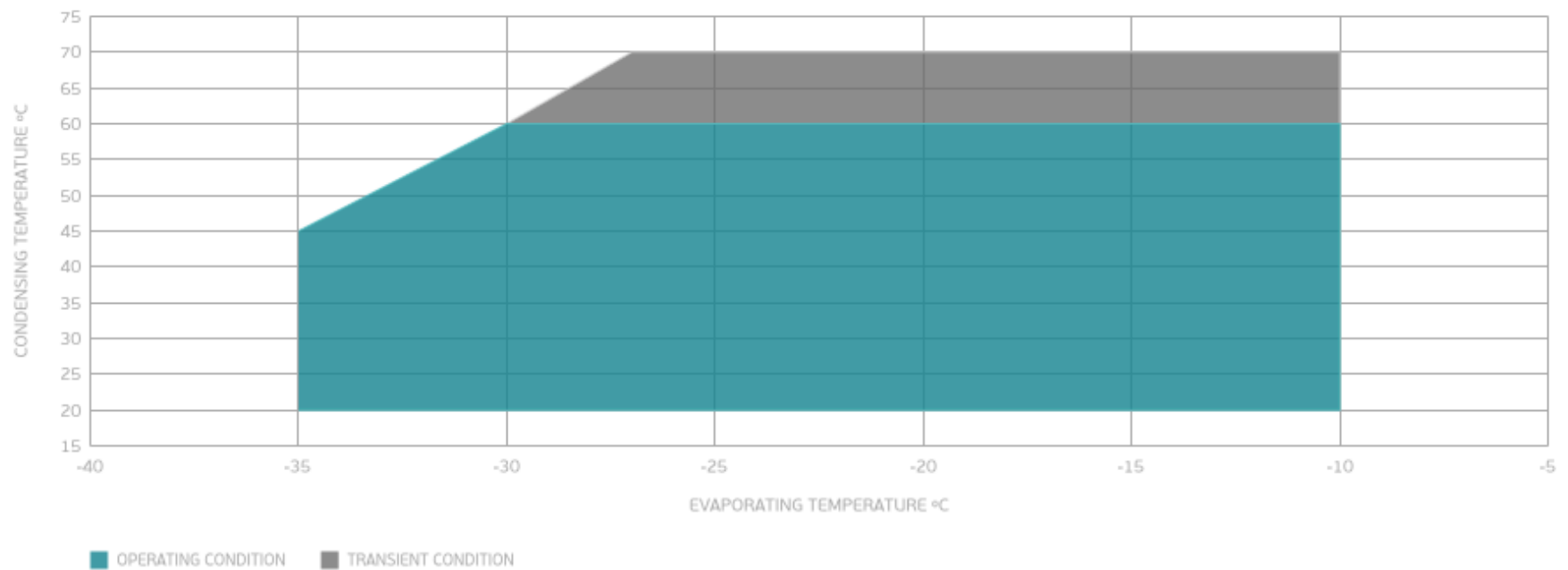
## PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	97	0.95	102	-	2.47
-25	136	1.10	124	-	3.48
-20	183	1.24	148	-	4.71
-15	240	1.38	174	-	6.20
-10	307	1.53	201	-	7.96

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

## ENVELOPE



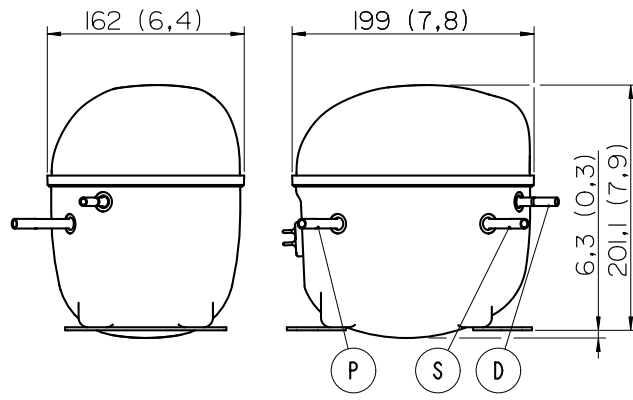
## External

### EXTERNAL CHARACTERISTICS

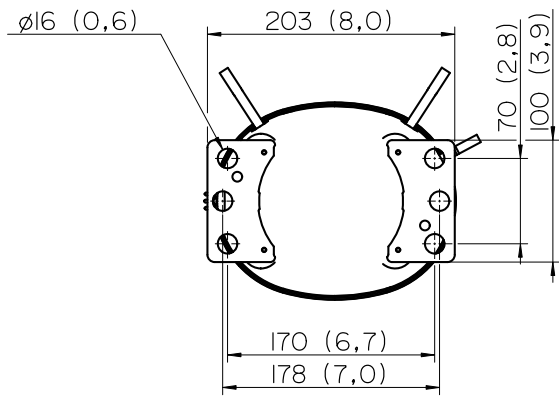
Base Plate		SMALL	
Tray Holder		YES	
Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 42°	COPPER
Discharge	4.86 mm	STRAIGHT	COPPER
Process	6.1 mm	SLANTED 42°	COPPER

## EXTERNAL DIMENSIONS

### SHELL



### BASE



### FENCE

