

NEK1118Z



ENGINEERING CODE
268FA42



REFRIGERANT
R-134a



POWER SUPPLY
220-240 V 50 Hz



APPLICATION
LBP



MOTOR TYPE
RSIR/RSCR



STANDARD
EN12900



COOLING CAPACITY
111 W



EFFICIENCY
1.07 W/W



DATA

GENERAL DATA

Model	NEK1118Z
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
HP	1/4
Starting Torque	LST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	16.4 Ω at 25°C
Run Winding Resistance	11.0 Ω at 25°C

MECHANICAL DATA

Displacement	8.39 cm ³
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	10.7 Kg

ELECTRICAL COMPONENTS

Run Capacitor	4.0 µf/450 V
CSR CSIR BOX	No
Starting Device Type	PTC
Starting Device Description	2019
Overload Protection	AD58FJ10

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	111	1.07	103	-	2.43

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	121	1.19	102	-	2.54
-30	166	1.39	119	-	3.50
-25	223	1.61	139	-	4.69
-20	292	1.84	159	-	6.15
-15	373	2.09	179	-	7.89
-10	468	2.36	198	-	9.95

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	101	0.97	103	-	2.31
-30	141	1.15	122	-	3.23
-25	191	1.32	144	-	4.40
-20	252	1.49	168	-	5.82
-15	325	1.67	194	-	7.54
-10	410	1.86	220	-	9.57

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

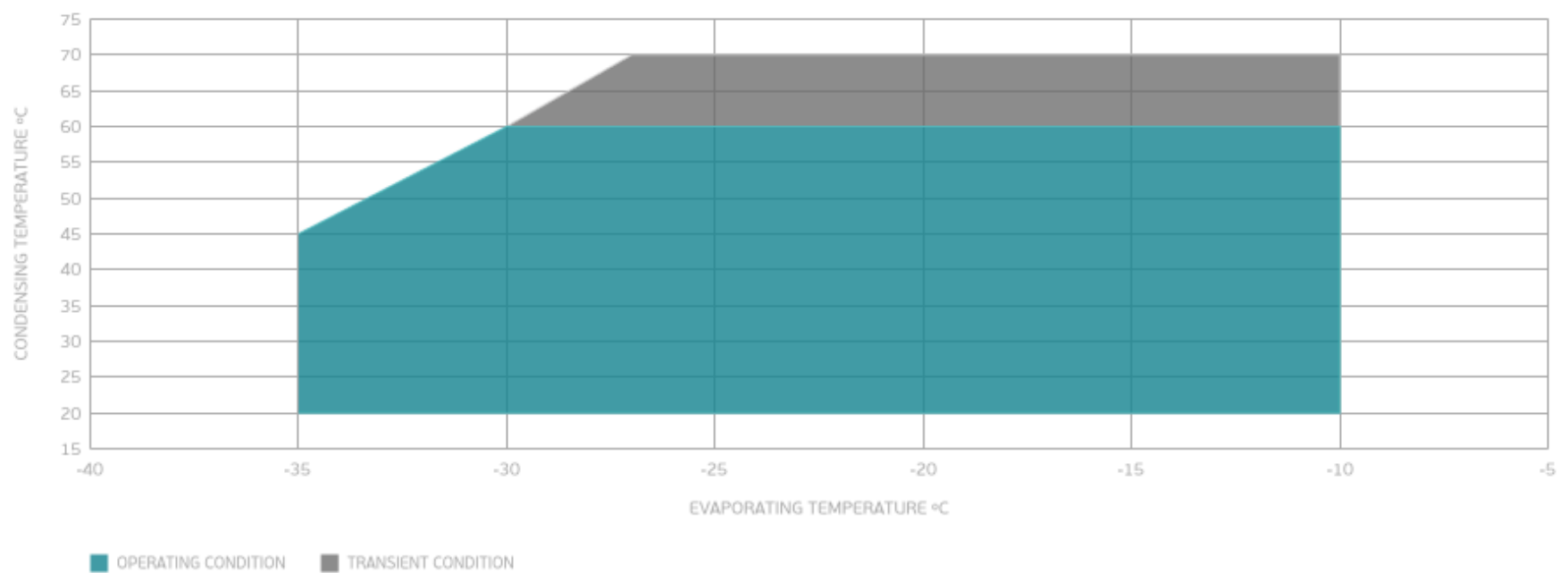
PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	115	0.96	120	-	2.94
-25	159	1.10	144	-	4.06
-20	212	1.24	171	-	5.44
-15	276	1.37	201	-	7.12
-10	351	1.51	233	-	9.11

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

ENVELOPE



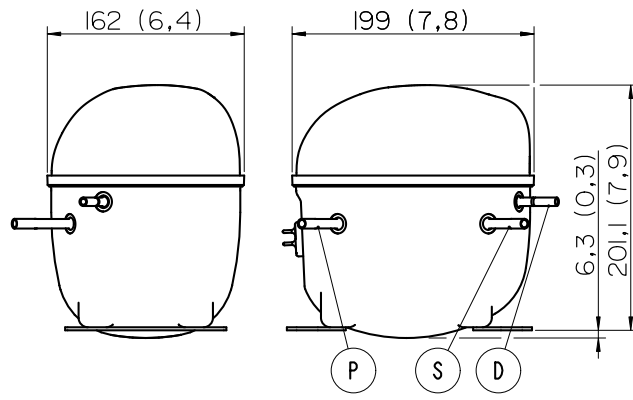
External

EXTERNAL CHARACTERISTICS

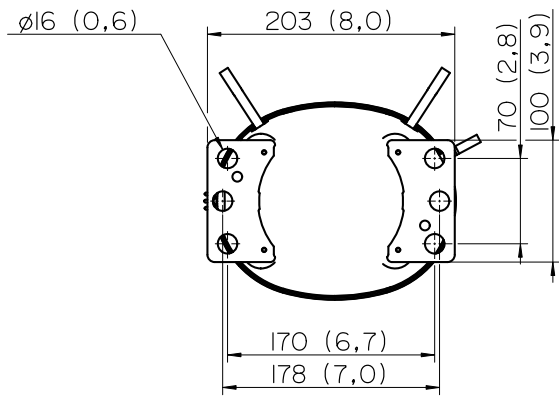
Base Plate		SMALL	
Tray Holder		NO	
Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 42°	COPPER
Discharge	4.86 mm	STRAIGHT	COPPER
Process	6.1 mm	SLANTED 42°	COPPER

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE

