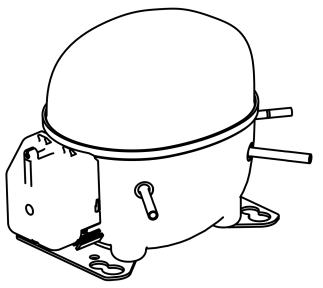
COMPRESSOR TECHNICAL DATA

NEK2134GK



ENGINEERING CODE
959DQ71

REFRIGERANT
R-404A

POWER SUPPLY
100 V 50-60 Hz

APPLICATION
LBP

MOTOR TYPE
CSCR

STANDARD
ASHRAE

COOLING CAPACITY
451 W

EFFICIENCY
1.28 W/W

DATA

GENERAL DATA

Model	NEK2134GK
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/100
HP	1/2
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	4.14 Ω at 25°C
Run Winding Resistance	0.86 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	34 A
Locked Rotor Amperage (LRA) 60Hz	34 A

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Jurumudi Baru, Benda – Tangerang 15124

MECHANICAL DATA

Displacement	8.77 cm^3
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11.5 Kg

ELECTRICAL COMPONENTS

Start Capacitor	243-292 µf/165 V
Run Capacitor	17.5 µf/425 V
CSR CSIR BOX	Yes
Starting Device Description	RVA7AC3
Overload Protection	T0808

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-404A
Tested Application	LBP
Tested Standard	ASHRAE
Tested Cooling	Fan
Tested Voltage	100 V
Refrigerant Temperature	Dew

Performance on Compressor Speed: 3000 RPM

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	-23.3	451	1.28	352	5.07	10.44

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE — Condensing Temperature 35ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-40	216	0.97	224	4.42	4.95
-35	288	1.14	252	4.56	6.62
-30	377	1.34	282	4.71	8.70
-25	484	1.55	313	4.87	11.22
-20	609	1.78	342	5.05	14.20
-15	754	2.04	369	5.25	17.68
-10	918	2.35	391	5.47	21.67

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE — Condensing Temperature 45ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-40	196	0.86	228	4.43	4.49
-35	263	1.02	258	4.57	6.05
-30	348	1.19	292	4.74	8.02
-25	451	1.37	330	4.94	10.43
-20	572	1.55	368	5.17	13.31
-15	712	1.75	407	5.45	16.67
-10	872	1.97	443	5.76	20.54

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE — Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	314	1.06	295	4.76	7.21
-25	411	1.22	337	4.99	9.49
-20	527	1.38	382	5.28	12.23
-15	662	1.54	430	5.62	15.46
-10	816	1.71	477	6.01	19.19

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

Performance on Compressor Speed: 3600 RPM

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	-23.3	534	1.35	397	4.59	12.35

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE — Condensing Temperature 35ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-40	260	1.12	232	3.10	5.97
-35	341	1.27	269	3.43	7.85
-30	441	1.44	307	3.77	10.19
-25	562	1.62	347	4.12	13.03
-20	705	1.83	386	4.48	16.43
-15	871	2.06	423	4.85	20.43
-10	1062	2.33	455	5.24	25.07

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE — Condensing Temperature 45ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-40	237	1.00	238	3.12	5.44
-35	317	1.15	276	3.48	7.29
-30	415	1.30	320	3.87	9.56
-25	532	1.45	367	4.29	12.31
-20	669	1.60	417	4.75	15.56
-15	828	1.77	467	5.23	19.38
-10	1011	1.96	516	5.75	23.81

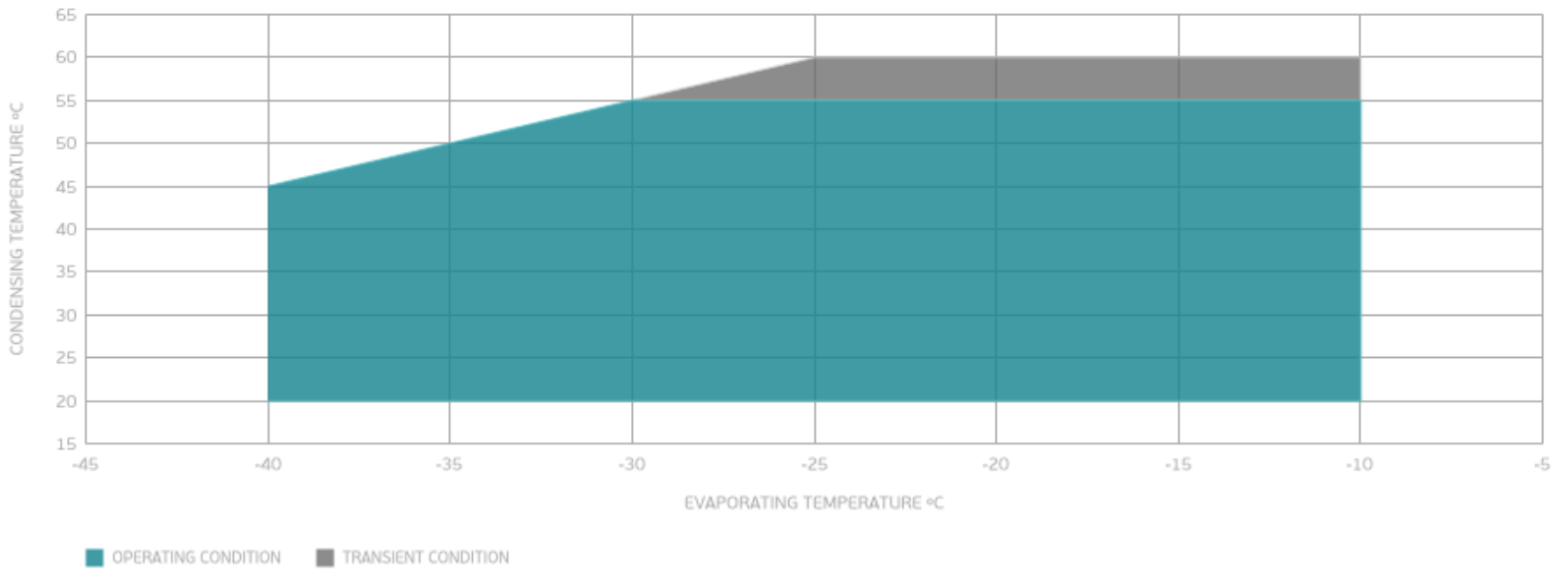
Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE — Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	374	1.15	325	3.95	8.60
-25	488	1.29	378	4.43	11.27
-20	621	1.42	436	4.96	14.41
-15	774	1.56	497	5.54	18.08
-10	949	1.69	561	6.18	22.31

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



External

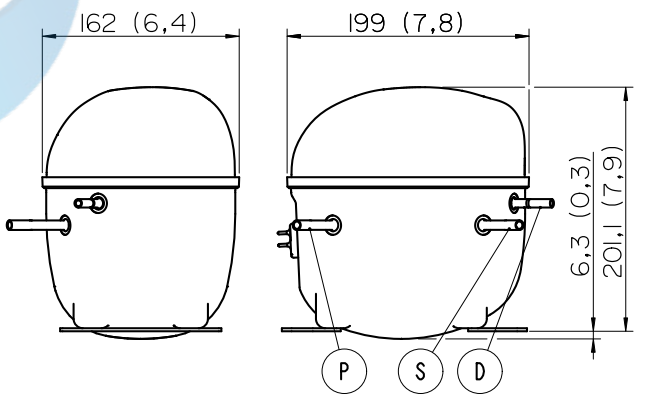
EXTERNAL CHARACTERISTICS

Base Plate	UNI
Tray Holder	NO

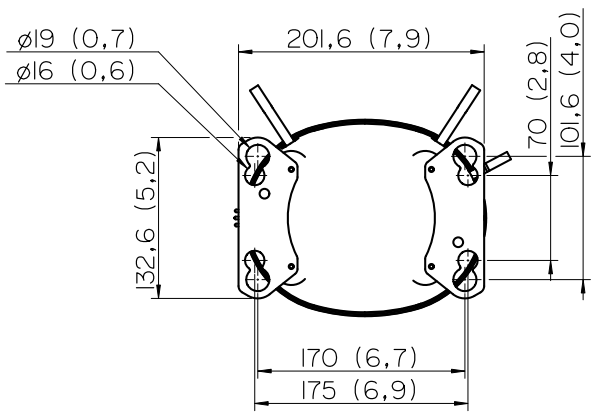
Connector	Internal Diameter	Shape	Material
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.45 mm	STRAIGHT	COPPER
Process	6.45 mm	SLANTED 42°	COPPER

EXTERNAL DIMENSIONS

SHELL



BASE



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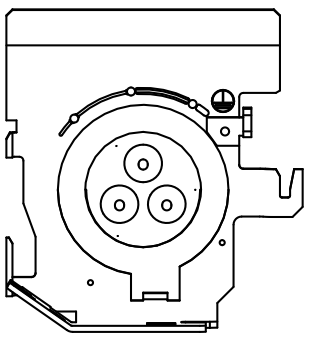

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