

NEK2150U



**ENGINEERING CODE**  
863NA51

**REFRIGERANT**  
R-290

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

**APPLICATION**  
LBP

**MOTOR TYPE**  
CSIR

**STANDARD**  
ASHRAE

**COOLING CAPACITY**  
582 W

**EFFICIENCY**  
1.32 W/W



DATA

GENERAL DATA

Model	NEK2150U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/2
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	19.29 Ω at 25°C
Run Winding Resistance	5.98 Ω at 25°C

## MECHANICAL DATA

Displacement	13.54 cm <sup>3</sup>
Oil Charge	350 ml
Oil Type	AB
Oil Viscosity	ISO32
Weight	11.6 Kg

## ELECTRICAL COMPONENTS

Start Capacitor	64-77 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	MTRP-0029*
Overload Protection	MSP30APK-3259

## PERFORMANCE

### TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	LBP
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	-23.3	582	1.32	441	2.83	5.91

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °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
-40	278	1.03	269	2.39	2.80
-35	362	1.19	304	2.47	3.65
-30	469	1.38	341	2.55	4.74
-25	599	1.59	377	2.65	6.08
-20	755	1.83	412	2.76	7.68
-15	936	2.11	443	2.87	9.57
-10	1145	2.44	470	2.99	11.76

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °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
-40	265	0.95	278	2.41	2.67
-35	345	1.09	316	2.49	3.48
-30	446	1.24	359	2.59	4.51
-25	571	1.41	404	2.71	5.79
-20	720	1.60	450	2.85	7.32
-15	894	1.80	496	3.01	9.14
-10	1095	2.03	540	3.18	11.24

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

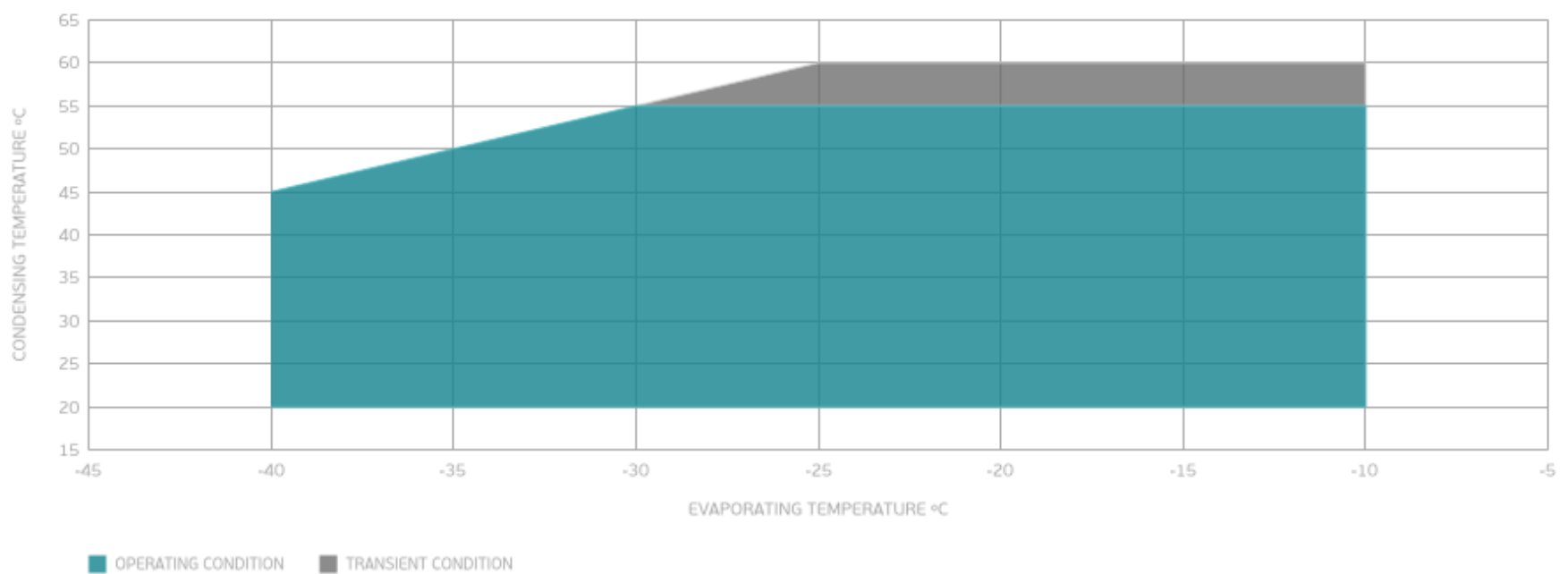
## PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	416	1.12	372	2.63	4.21
-25	534	1.26	423	2.78	5.42
-20	676	1.41	479	2.96	6.88
-15	843	1.57	536	3.16	8.61
-10	1036	1.74	595	3.39	10.63

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

## ENVELOPE



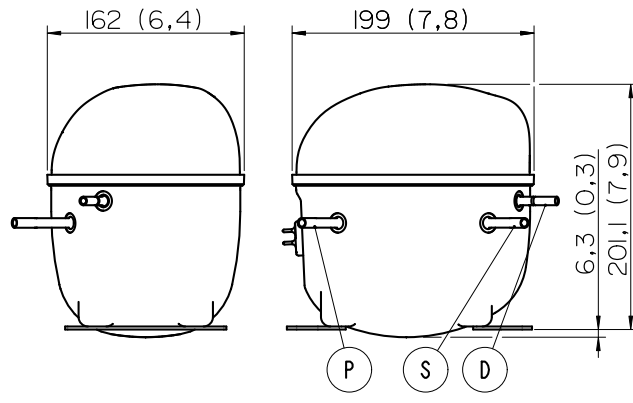
## External

### 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

