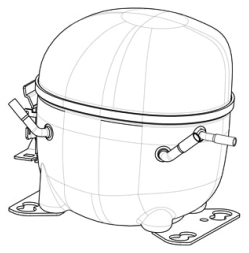
COMPRESSOR TECHNICAL DATA

NEK6210U



ENGINEERING CODE
862CA58

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
MBP

MOTOR TYPE
CSIR

STANDARD
ASHRAE

COOLING CAPACITY
703 W

EFFICIENCY
1.86 W/W

DATA

GENERAL DATA

Model	NEK6210U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	MBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/3
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	31.7 Ω at 25°C
Run Winding Resistance	5.18 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	16.1 A

MECHANICAL DATA

Displacement	8.77 cm^3
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	10.5 Kg

ELECTRICAL COMPONENTS

Start Capacitor	53-64 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	T0964/G6

EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	YES

Connector	Internal Diameter	Shape	Material
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.1 mm	STRAIGHT	COPPER
Process	6.1 mm	SLANTED 42°	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	MBP
Tested Standard	ASHRAE
Tested Cooling	Fan
Tested Voltage	220 V
Tested Frequency	50 Hz
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	-6.7	703	1.86	379	2.45	8.04

Test Condition: Subcooling 8.3 K, Return Gas 35 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
-20	539	2.02	267	2.06	5.18
-15	658	2.30	287	2.12	6.36
-10	798	2.61	306	2.18	7.75
-5	962	2.98	322	2.23	9.38
0	1153	3.46	333	2.27	11.31
5	1374	4.08	337	2.31	13.56
10	1628	4.95	329	2.35	16.19

Test Condition: Subcooling 8.3 K, Return Gas 35 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
-20	471	1.61	292	2.09	4.90
-15	579	1.84	316	2.19	6.05
-10	706	2.07	341	2.28	7.41
-5	855	2.33	367	2.36	9.01
0	1028	2.64	389	2.43	10.90
5	1228	3.03	405	2.50	13.12
10	1459	3.53	414	2.56	15.72

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

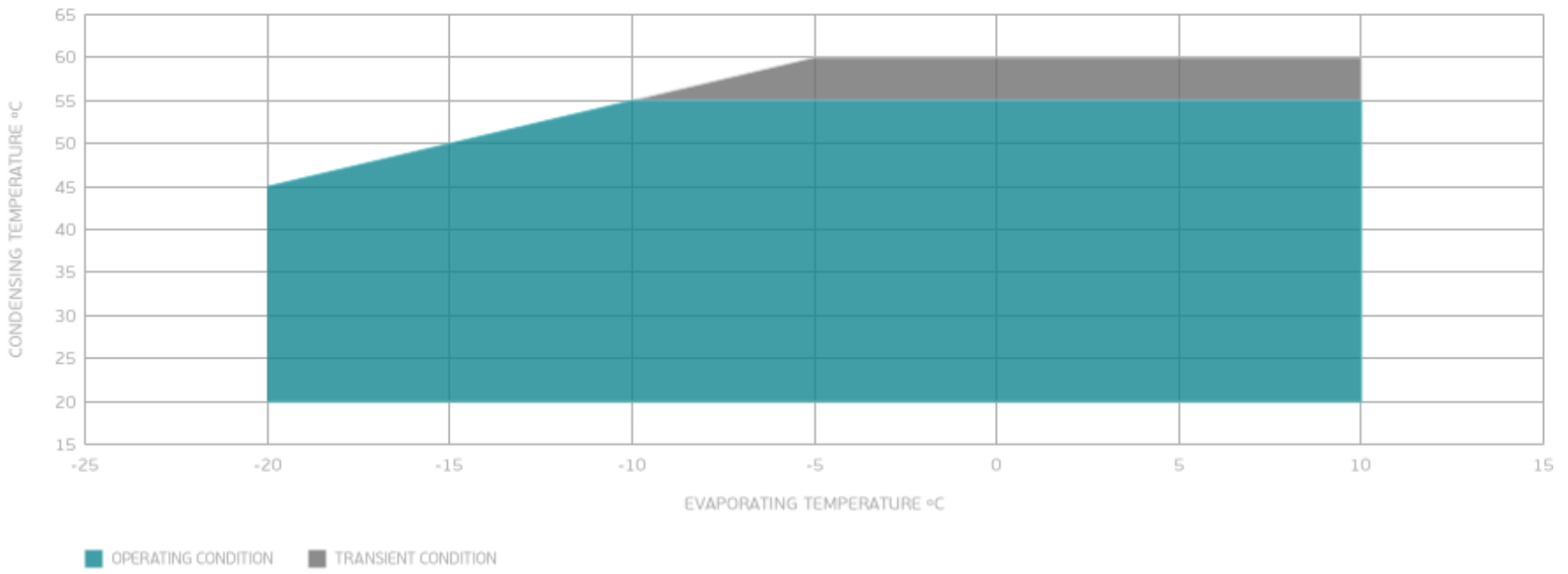
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	612	1.71	358	2.38	7.01
-5	744	1.90	391	2.49	8.58
0	898	2.13	422	2.60	10.43
5	1078	2.39	450	2.70	12.61
10	1286	2.72	472	2.79	15.16

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



EXTERNAL DIMENSIONS