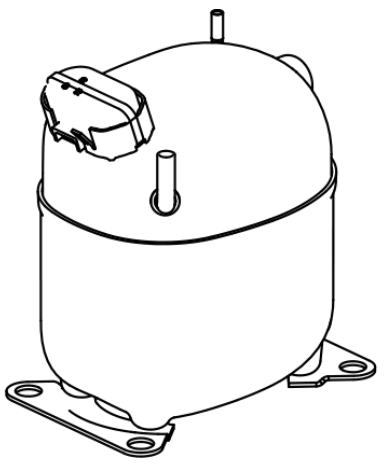
COMPRESSOR TECHNICAL DATA

NJ6220Z



ENGINEERING CODE
144HD11

REFRIGERANT
R-134a

POWER SUPPLY
208-230 V 60 Hz

APPLICATION
HBP

MOTOR TYPE
CSIR

STANDARD
AHRI

COOLING CAPACITY
2364 W

EFFICIENCY
1.98 W/W

DATA

GENERAL DATA

Model	NJ6220Z
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	HBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/208
HP	1
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	8.09 Ω at 25°C
Run Winding Resistance	1.45 Ω at 25°C
Locked Rotor Amperage (LRA) 60Hz	42 A

MECHANICAL DATA

Displacement	26.11 cm^3
Oil Charge	750 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	20.2 Kg

ELECTRICAL COMPONENTS

Start Capacitor	88-108 µf/330 V
CSR CSIR BOX	Yes
Starting Device Description	RVA4L3C-566
Overload Protection	MST16AFN T0820/20

EXTERNAL CHARACTERISTICS

Base Plate	LARGE
Tray Holder	NO

Connector	Internal Diameter	Shape	Material
Suction	9.6 mm	VERTICAL	COPPER
Discharge	8 mm	SLANTED J	COPPER
Process	6.42 mm	VERTICAL	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	HBP
Tested Standard	AHRI
Tested Cooling	Fan
Tested Voltage	208 V
Tested Frequency	60 Hz
Max Refrigerant Charge	800 g
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	7.2	2364	1.98	1191	-	63.32

Test Condition: Subcooling 0 K, Return Gas 18.3 ºC. Data are an indication of performance based simulation.

PERFORMANCE CURVE

Condensing Temperature 35ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-15	1136	1.82	624	-	24.25
-10	1519	2.11	719	-	32.60
-5	1958	2.39	818	-	42.23
0	2454	2.69	911	-	53.26
5	3009	3.05	988	-	65.81
10	3624	3.49	1039	-	79.98

Test Condition: Subcooling 0 K, Return Gas 18.3 ºC. Data are an indication of performance based simulation.

PERFORMANCE CURVE

Condensing Temperature 45ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-15	872	1.38	634	-	20.43
-10	1210	1.64	737	-	28.49
-5	1603	1.87	856	-	37.94
0	2051	2.09	981	-	48.92
5	2557	2.32	1102	-	61.52
10	3121	2.58	1209	-	75.87

Test Condition: Subcooling 0 K, Return Gas 18.3 ºC. Data are an indication of performance based simulation.

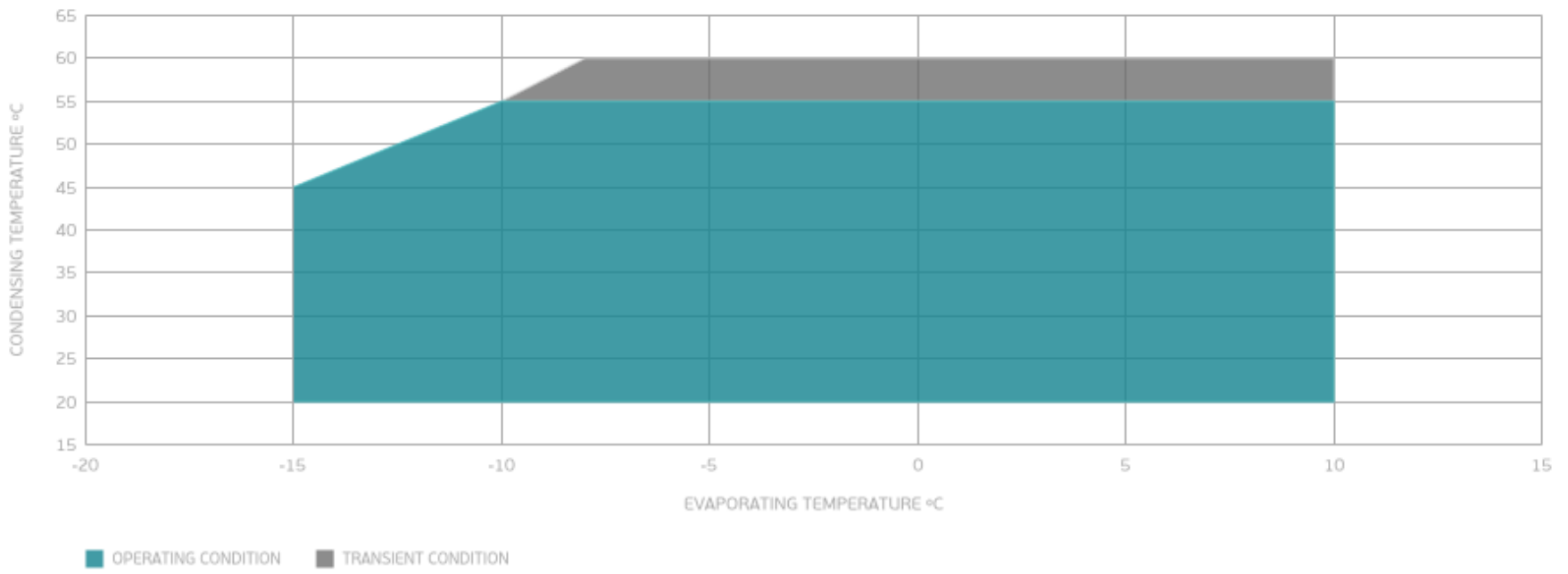
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	940	1.31	720	-	24.62
-5	1279	1.52	841	-	33.73
0	1672	1.71	980	-	44.47
5	2122	1.88	1127	-	56.96
10	2628	2.07	1272	-	71.32

Test Condition: Subcooling 0 K, Return Gas 18.3 ºC. Data are an indication of performance based simulation.

ENVELOPE



EXTERNAL DIMENSIONS