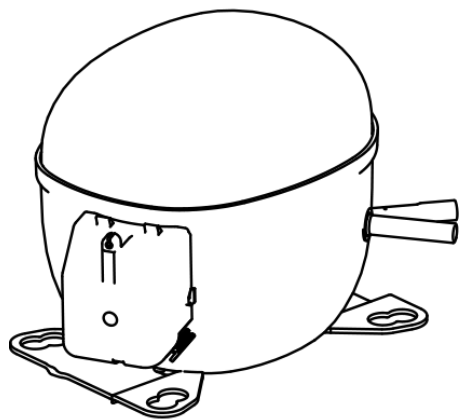


NT2180U



ENGINEERING CODE
843AA09



REFRIGERANT
R-290



POWER SUPPLY
220-240 V 50 Hz



APPLICATION
LBP



MOTOR TYPE
CSCR



STANDARD
EN12900



COOLING CAPACITY
556 W



EFFICIENCY
1.21 W/W



DATA

GENERAL DATA

Model	NT2180U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	8.56 Ω at 25°C
Run Winding Resistance	1.82 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	35 A

MECHANICAL DATA

Displacement	22.37 cm ³
Oil Charge	450 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	18 Kg

ELECTRICAL COMPONENTS

Start Capacitor	43-53 µf/330 V
CSR CSIR BOX	Yes
Overload Protection	MRA38170-3261

EXTERNAL CHARACTERISTICS

Base Plate	UNI
Tray Holder	NO

Connector	Internal Diameter	Shape	Material
Suction	12.7 mm	ROTOLOCK(EX. THR. 1"-14UNS-2A)	STEEL
Discharge	6.42 mm	VERTICAL	COPPER
Process	6.42 mm	VERTICAL	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	LBP
Tested Standard	EN12900
Tested Cooling	Fan
Tested Voltage	220 V
Tested Frequency	50 Hz
Max Refrigerant Charge	400 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
40	-35	556	1.21	460	-	6.38

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
-40	469	1.17	400	-	5.13
-35	611	1.35	451	-	6.71
-30	786	1.55	507	-	8.65
-25	995	1.76	565	-	10.98
-20	1239	2.00	620	-	13.73
-15	1520	2.27	670	-	16.93
-10	1839	2.59	711	-	20.60

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
-40	379	0.92	411	-	4.55
-35	500	1.07	465	-	6.02
-30	651	1.23	529	-	7.86
-25	832	1.39	597	-	10.08
-20	1045	1.57	667	-	12.72
-15	1292	1.76	735	-	15.81
-10	1573	1.97	797	-	19.36

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

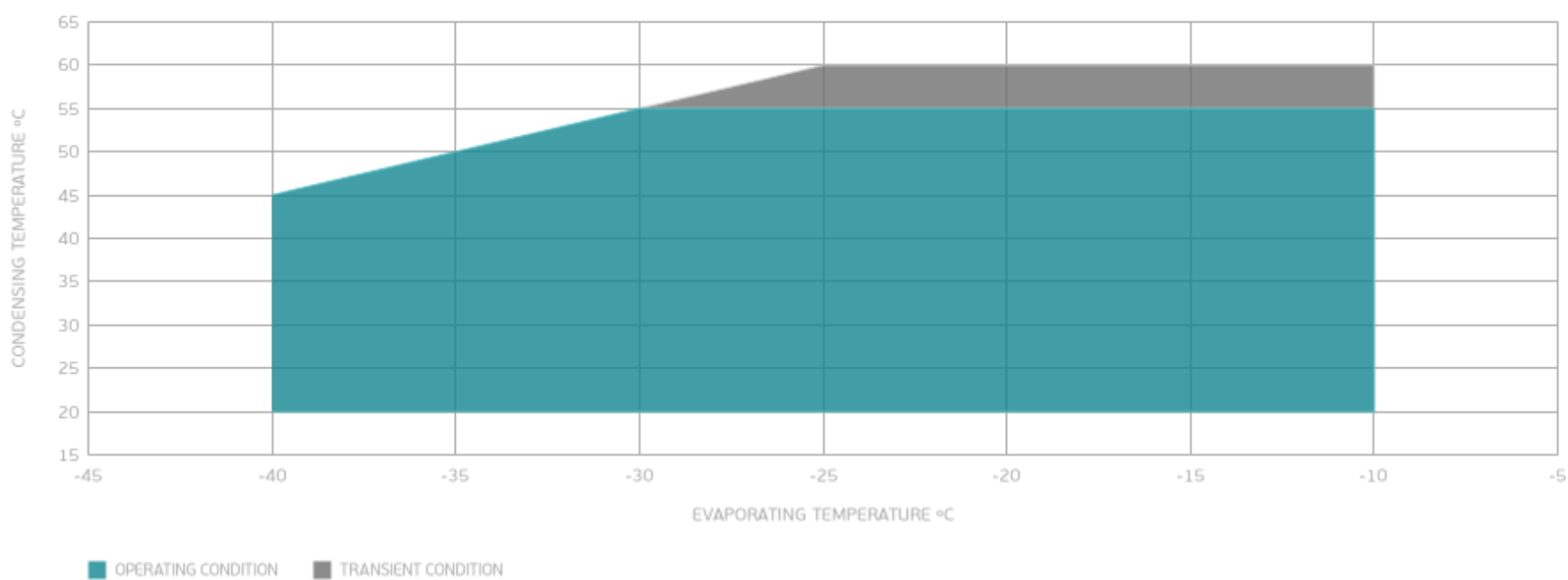
PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	516	0.97	529	-	6.93
-25	669	1.10	606	-	9.03
-20	850	1.24	688	-	11.54
-15	1062	1.38	771	-	14.50
-10	1305	1.53	852	-	17.92

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

ENVELOPE



EXTERNAL DIMENSIONS

