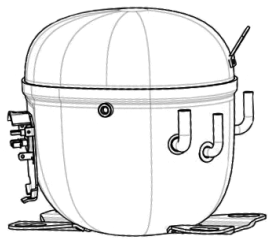
COMPRESSOR TECHNICAL DATA

NT2180U



ENGINEERING CODE
843AA04

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
CSCR

STANDARD
ASHRAE

COOLING CAPACITY
932 W

EFFICIENCY
1.47 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	8.4 Ω at 25°C
Run Winding Resistance	1.9 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

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

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	LBP
Tested Standard	ASHRAE
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
54.4	-23.3	932	1.47	634	3.27	9.47

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	488	1.22	400	2.28	4.91
-35	636	1.41	451	2.49	6.42
-30	818	1.61	507	2.72	8.27
-25	1035	1.83	565	2.95	10.50
-20	1288	2.08	620	3.18	13.11
-15	1580	2.36	670	3.42	16.14
-10	1911	2.69	711	3.67	19.61

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	433	1.06	410	2.31	4.36
-35	571	1.23	465	2.55	5.76
-30	743	1.41	529	2.80	7.52
-25	950	1.59	597	3.07	9.64
-20	1194	1.79	668	3.35	12.15
-15	1475	2.00	736	3.64	15.07
-10	1797	2.25	799	3.94	18.44

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

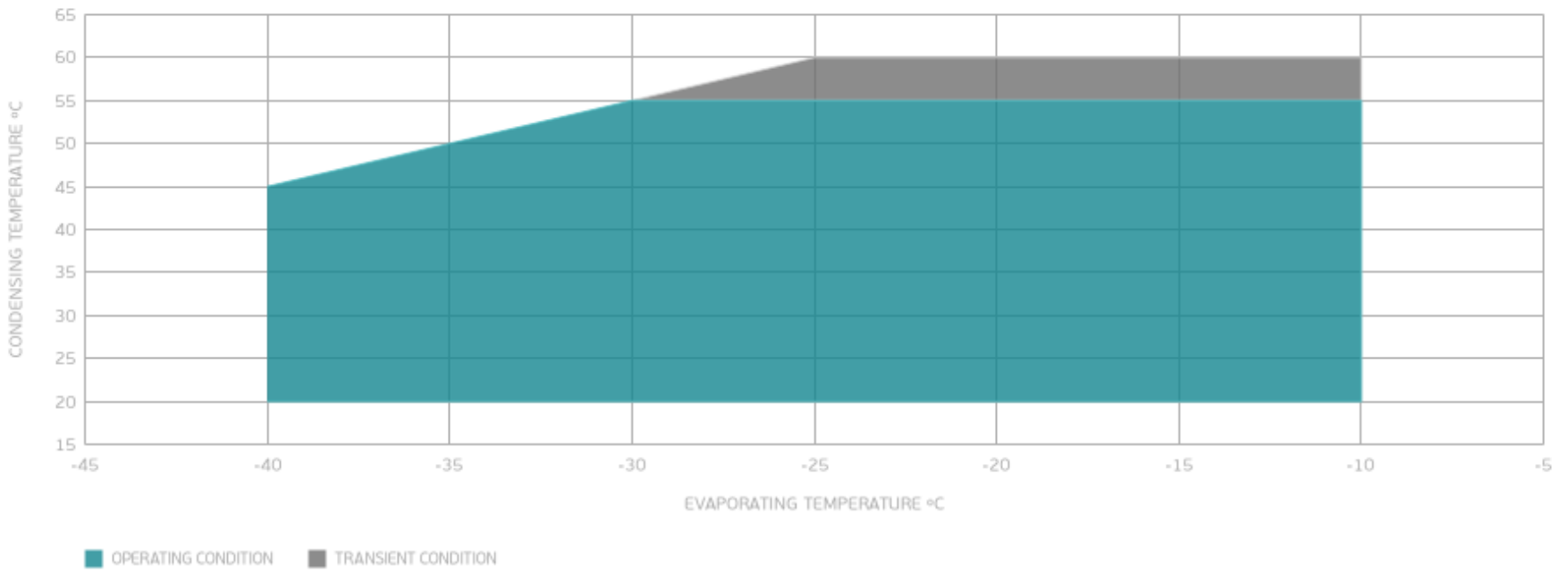
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	656	1.24	529	2.85	6.63
-25	851	1.40	606	3.17	8.63
-20	1083	1.57	689	3.50	11.02
-15	1353	1.75	773	3.85	13.82
-10	1663	1.95	854	4.21	17.06

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 DIMENSIONS