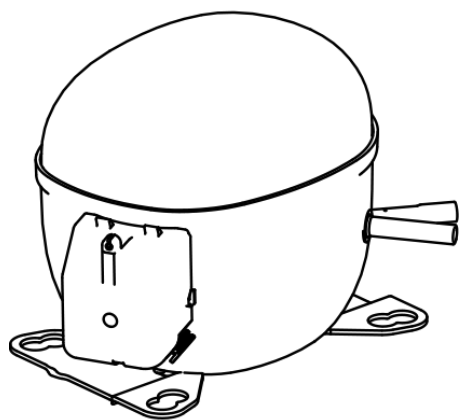


NT2180U



**ENGINEERING CODE**  
843PA04



**REFRIGERANT**  
R-290



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



**APPLICATION**  
LBP



**MOTOR TYPE**  
CSIR



**STANDARD**  
EN12900



**COOLING CAPACITY**  
541 W



**EFFICIENCY**  
1.11 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	7.31 Ω at 25°C
Run Winding Resistance	2.87 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	28 A

## MECHANICAL DATA

Displacement	22.37 cm <sup>3</sup>
Oil Charge	450 ml
Oil Type	AB
Oil Viscosity	ISO32
Weight	16.6 Kg

## ELECTRICAL COMPONENTS

Start Capacitor	43-53 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	MTRP-59*
Overload Protection	MRA38112-3259

## EXTERNAL CHARACTERISTICS

Base Plate	UNI
Tray Holder	NO

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	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	541	1.11	489	-	6.21

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	450	1.07	419	-	4.92
-35	585	1.22	477	-	6.42
-30	757	1.40	541	-	8.33
-25	966	1.60	605	-	10.66
-20	1210	1.81	668	-	13.41
-15	1488	2.06	724	-	16.58
-10	1801	2.33	771	-	20.17

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	376	0.87	432	-	4.52
-35	493	0.99	496	-	5.94
-30	642	1.13	569	-	7.75
-25	821	1.27	646	-	9.95
-20	1031	1.42	724	-	12.55
-15	1270	1.59	799	-	15.53
-10	1537	1.77	869	-	18.91

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	513	0.90	572	-	6.90
-25	665	1.01	660	-	8.97
-20	841	1.12	751	-	11.41
-15	1042	1.23	844	-	14.22
-10	1266	1.36	934	-	17.39

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

## ENVELOPE



## EXTERNAL DIMENSIONS

