

## Compressor Technical Data

**Model:** NT2180U

**Code:** 843AA04

### Description

Refrigerant:	R-290	Displacement (cm <sup>3</sup> ):	22,37
Voltage:	220-240 V 50 Hz 1 ~	Lubricant Type:	ISO22
Frequency (Hz):	50	Lubricant Charge (ml):	450
Application:	LBP	Motor Type:	CSCR
HP:	1	Starting Torque:	HST
Efficiency:	4,97	Type of Test:	ASHRAE32
Capacity:	3192,00		

### Approval

**VDE**

### Data

#### External Features

	Shape	Material	Diameter (mm)
Suction Connector	Vertical	Copper	9,60
Discharge Connector	Vertical	Copper	6,42
Process Connector	Vertical	Copper	6,42

Oil Cooler:	
Base Plate:	Universal
Tray Holder:	No
Weight (kg):	18,00

#### Application

Maximum ambient temperature (°C):	43
Expansion device:	Capillary/ Valve
Cooling:	Fan Cooling
Air flow rate:	

#### Mechanical Data

Bill of materials:	843AA04
Starting torque:	High Starting Torque
Bore (mm):	36,99
Stroke (mm):	10,42
Weight (kg):	18,00

#### Electrical Data

Motor type:	CSCR
Winding Resistance (25°C) - Start:	1,90
Winding Resistance (25°C) - Run:	8,40

**Check Point - Condensing Temperature 54,4 °C**

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Efficiency +/-7%		
	(°C)	(kcal/h)	(W)			(Btu/h)	(W)	(A)
-23,3	808	939	3.205	639	3,27	1,26	1,47	5,01

**Condensing Temperature 35 °C**

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Gas Flow Rate +/- 5%	Efficiency +/-7%		
	(°C)	(kcal/h)	(W)				(Btu/h)	(W)	(A)
-40	429	499	1.701	401	2,28	5,02	1,07	1,24	4,24
-35	548	637	2.174	455	2,49	6,43	1,20	1,40	4,78
-30	701	815	2.782	509	2,72	8,25	1,38	1,60	5,46
-25	888	1.033	3.524	564	2,95	10,48	1,57	1,83	6,24
-20	1.109	1.290	4.400	619	3,18	13,13	1,79	2,08	7,10
-15	1.364	1.586	5.412	675	3,42	16,21	2,02	2,35	8,02
-10	1.652	1.922	6.557	731	3,67	19,73	2,26	2,63	8,97

**Condensing Temperature 45 °C**

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Gas Flow Rate +/- 5%	Efficiency +/-7%		
	(°C)	(kcal/h)	(W)				(Btu/h)	(W)	(A)
-40	372	433	1.476	402	2,31	4,36	0,93	1,08	3,67
-35	486	565	1.929	463	2,55	5,71	1,05	1,22	4,16
-30	632	735	2.508	526	2,80	7,44	1,20	1,40	4,77
-25	810	942	3.213	590	3,07	9,55	1,37	1,60	5,44
-20	1.019	1.185	4.044	656	3,35	12,06	1,55	1,81	6,16
-15	1.260	1.465	5.000	723	3,64	14,98	1,74	2,03	6,92
-10	1.533	1.782	6.082	791	3,94	18,30	1,94	2,25	7,69

**Condensing Temperature 55 °C**

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Gas Flow Rate +/- 5%	Efficiency +/-7%		
	(°C)	(kcal/h)	(W)				(Btu/h)	(W)	(A)
-40	314	365	1.245	399	2,27	3,67	0,79	0,91	3,12
-35	426	495	1.690	469	2,55	5,00	0,91	1,06	3,61
-30	568	660	2.252	541	2,85	6,68	1,05	1,22	4,16

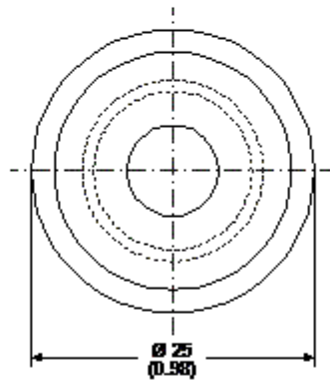
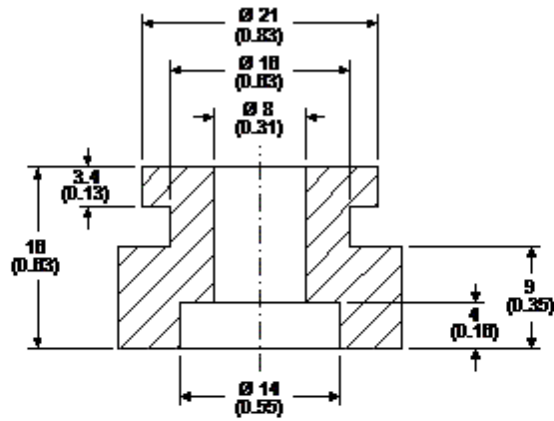
-25	739	859	2.931	615	3,17	8,71	1,20	1,40	4,76
-20	939	1.092	3.727	692	3,50	11,12	1,36	1,58	5,38
-15	1.169	1.360	4.639	771	3,85	13,89	1,52	1,76	6,01
-10	1.428	1.661	5.668	853	4,21	17,05	1,67	1,95	6,65

## Dimensions

### Rubber Grommet

Engineering Code	13146411
Dimensions	mm (Inch)

The grommets are made of special rubber and used in the nut and bolt type or in the snap on type assembly. The rubber grommet, the dimensions of which are shown in the figure below, was developed for installation in compressors with 16 and 19 mm diameters holes in the base plate.



**Accessories**