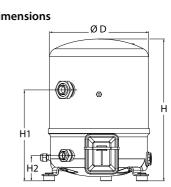
Datasheet, technical data

Maneurop reciprocating compressor, NTZ096-4B

General Characteristics

Model number (on compressor nameplate)	NTZ096A4LR1B
Code number for Singlepack*	120F0234
Code number for Industrial pack**	120F0235
Drawing number	8502012g
Suction and discharge connections	Rotolock
Suction connection	1-3/4 " Rotolock
Discharge connection	1-1/4 " Rotolock
Suction connection with supplied sleeve	7/8 " ODF
Discharge connection with supplied sleeve	3/4 " ODF
Oil sight glass	Threaded
Oil equalisation connection	3/8" flare SAE
Oil drain connection	None
LP gauge port	Schrader
IPR valve	30 bar / 8 bar
Cylinders	2
Swept volume	96 cm3/rev
Displacement @ Nominal speed	16.7 m3/h @ 2900 rpm - 20.2 m3/h @ 3500 rpm
Net weight	35 kg
Oil charge	1.8 litre, POE - 175PZ
Maximum system test pressure Low Side / High side	25 bar(g) / 30 bar(g)
Maximum differential test pressure	30 bar
Maximum number of starts per hour	12
Refrigerant charge limit	5 kg
Approved refrigerants	R404A, R452A

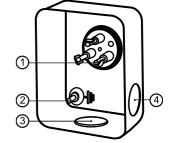


D=288 mm H=413 mm H1=265 mm H2=74 mm H3=- mm

Terminal box

Electrical Characteristics

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-440 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25°C	5.03 Ω
Maximum Continuous Current (MCC)	10.1 A
Locked Rotor Amps (LRA)	32 A
Motor protection	Internal overload protector



Recommended Installation torques

Oil sight glass	50 Nm	
Power connections / Earth connection	2 Nm / 2 Nm	
Mounting bolts	15 Nm	IP

Parts shipped with compressor

Mounting kit with grommets, bolts, nuts, sleeves and washers

Suction & Discharge solder sleeves, rotolock nuts and gaskets (shipped with rotolock version only) Initial oil charge

Installation instructions

Approvals : CE certified, -, -

*Singlepack: Compressor in cardboard box

**Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

IP55 (with cable gland)

1: Spade connectors 1/4"

Earth M4-12

2:

- 3: Knock-out Ø 21 mm (0.83")
- 4: Hole Ø 21 mm (0.83")



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Datasheet, accessories and spare parts

Maneurop reciprocating compressor, NTZ096-4B

6: Nut (3x)

Rotolock accessories, suction side	Code no.	
Solder sleeve, P07 (1-3/4" Rotolock, 7/8" ODF)	8153013	
Angle adapter, C07 (1-3/4" Rotolock, 7/8" ODF)	8168008	
Rotolock valve, V07 (1-3/4" Rotolock, 7/8" ODF)	8168032	Gaskets, sleeves and nuts
Gasket, 1-3/4"	8156132	
Rotolock accessories, discharge side	Code no.	
Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008	
Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF)	8168006	
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029	
Gasket, 1-1/4"	8156131	1 2 3
Rotolock accessories, sets	Code no.	1: Gasket
Angle adapter set, C07 (1-3/4"~7/8"), C04 (1-1/4"~3/4")	7703013	2: Solder sleeve
Valve set, V07 (1-3/4"~7/8"), V04 (1-1/4"~3/4")	7703006	3: Rotolock nut
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009	
	Carlana	
Oil / lubricants	Code no.	
POE lubricant, 175PZ, 1 litre can	120Z0638	
POE lubricant, 175PZ, 2.5 litre can	120Z0639	
Crankcase heaters	Code no.	Mounting kit
PTC heater 27W,CE mark, UL	120Z0459	
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	7773107	1
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	7773117	
Belt type crankcase heater, 65 W, 460 V, CE mark, UL	120Z0466	
Miscellaneous accessories	Code no.	44
Acoustic hood for 2 cylinder compressor	120Z0472	
Oil equalisation nut	8153127	
Spare parts	Code no.	
Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts	8156001	
Oil sight glass with gaskets (black & white)	8156019	1: Bolt (3x)
Gasket for oil sight glass (black chloroprene)	8156145	2: Lock washer (3x)
Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp	8156134	3: Flat washer (3x)
		4: Sleeve (3x)
		5: Grommet (3x)



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Maneurop reciprocating compressor. NTZ096-4

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R452A

Cond. temp. in		Evaporating temperature in °C (to)										
°C (tc)	-45	-40	-35	-30	-25	-20	-15	-10				
Cooling capacity i												
30	-	-	2 639	3 611	4 803	6 233	7 921	9 883	-			
35	-	-	2 352	3 250	4 357	5 690	7 269	9 111	-			
40	-	-	2 065	2 886	3 904	5 136	6 603	8 321	-			
45	-	-	-	2 523	3 448	4 576	5 926	7 516	-			
50	-	-	-	-	2 993	4 013	5 243	6 701	-			
55	-	-	-	-	-	3 451	4 558	5 881	-			
60	-	-	-	-	-	-	-	-	-			
Power input in W												
30	-	-	1 678	1 974	2 262	2 531	2 768	2 964	-			
35	-	-	1 670	1 994	2 320	2 637	2 933	3 197	-			
40	-	-	1 650	2 001	2 363	2 725	3 076	3 405	-			
45	-	-	-	1 994	2 389	2 794	3 197	3 589	-			
50	-	-	-	-	2 399	2 843	3 297	3 748	-			
55	-	-	-	_	-	2 875	3 375	3 883	-			
60	_	-	-	-	-	-	-	-	_			
00								1				
urrent consump	tion in A											
30	-	-	3.30	3.67	4.05	4.42	4.76	5.05	-			
35	-	-	3.27	3.67	4.09	4.52	4.93	5.31	-			
40	-	-	3.25	3.67	4.13	4.62	5.11	5.57	-			
45	-	-	-	3.66	4.17	4.71	5.27	5.83	-			
50	-	-	-	-	4.18	4.78	5.41	6.06	-			
55	-	-	-	-	-	4.82	5.53	6.26	-			
60	-	-	-	-	-	-	-	-	-			
Mass flow in kg/h					1		1	<u> </u>				
30	-	-	64	87	116	152	194	244	-			
35	-	-	60	82	111	146	188	237	-			
40	-	-	55	77	105	139	181	230	-			
45	-	-	-	72	99	132	173	221	-			
50	-	-	-	-	92	124	164	211	-			
55	-	-	-	-	-	116	154	200	-			
60	-	-	-	-	-	-	-	-	-			
oefficient of perf	formance (C.C).P.)										
30	-	, 	1.57	1.83	2.12	2.46	2.86	3.33	-			
35	-	-	1.41	1.63	1.88	2.16	2.48	2.85	-			
40	-	-	1.25	1.44	1.65	1.89	2.15	2.44	-			
45	-	-	-	1.27	1.44	1.64	1.85	2.09	-			
50	-	-	-	-	1.25	1.41	1.59	1.79	-			
55	_	-	-	-	-	1.20	1.35	1.51	_			
60	-	_	-	_	-	-	-	-	-			
		1		1	L	I	1	1 1				
Nominal performa	ance at to = -3	-				Pressure switch						
Cooling capacity		2 065	W			Maximum HP swit		27.7	bar(g)			
Power input Current consumptio	n	1 650 3.25	W A			Minimum LP swite LP pump down se	-	0.1 0.1	bar(g) bar(g)			
Vass flow	011	55	A kg/h					0.1	bai(y)			
C.O.P.		1.25	0			Sound power dat	a					
				-		Sound power leve			dB(A)			

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Sound power level	dB(A)
With accoustic hood	dB(A)

Tolerance according EN12900



Maneurop reciprocating compressor. NTZ096-4

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

Cond. temp. in	Evaporating temperature in °C (to)										
°C (tc)	-45	-40	-35	-30	-25	-20	-15	-10			

Cooling capacity in W

	.,								
30	-	1 689	2 415	3 344	4 500	5 906	7 587	9 566	-
35	-	1 457	2 116	2 965	4 029	5 332	6 899	8 753	-
40	-	1 233	1 821	2 587	3 556	4 752	6 200	7 925	-
45	-	-	1 536	2 215	3 085	4 169	5 494	7 087	-
50	-	-	-	1 853	2 620	3 589	4 787	6 241	-
55	-	-	-	1 505	2 166	3 015	4 081	5 393	-
60	-	-	-	-	-	-	-	-	-

Power input in W

30	-	1 386	1 678	1 974	2 262	2 531	2 768	2 964	-
35	-	1 358	1 670	1 994	2 320	2 637	2 933	3 197	-
40	-	1 322	1 650	2 001	2 363	2 725	3 076	3 405	-
45	-	-	1 620	1 994	2 389	2 794	3 197	3 589	-
50	-	-	-	1 974	2 399	2 843	3 297	3 748	-
55	-	-	-	1 941	2 393	2 875	3 375	3 883	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

30	-	2.96	3.30	3.67	4.05	4.42	4.76	5.05	-
35	-	2.93	3.27	3.67	4.09	4.52	4.93	5.31	-
40	-	2.89	3.25	3.67	4.13	4.62	5.11	5.57	-
45	-	-	3.21	3.66	4.17	4.71	5.27	5.83	-
50	-	-	-	3.63	4.18	4.78	5.41	6.06	-
55	-	-	-	3.57	4.16	4.82	5.53	6.26	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

30	-	55	77	103	135	173	218	268	-
35	-	51	72	98	129	167	211	261	-
40	-	47	67	92	123	159	203	253	-
45	-	-	61	85	115	151	194	243	-
50	-	-	-	78	107	142	184	232	-
55	-	-	-	71	99	133	173	220	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

30	-	1.22	1.44	1.69	1.99	2.33	2.74	3.23	-
35	-	1.07	1.27	1.49	1.74	2.02	2.35	2.74	-
40	-	0.93	1.10	1.29	1.51	1.74	2.02	2.33	-
45	-	-	0.95	1.11	1.29	1.49	1.72	1.97	-
50	-	-	-	0.94	1.09	1.26	1.45	1.67	-
55	-	-	-	0.78	0.91	1.05	1.21	1.39	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -35 °C, tc = 40 °C

Cooling capacity	1 821	W
Power input	1 650	W
Current consumption	3.25	Α
Mass flow	67	kg/h
C.O.P.	1.10	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Pressure switch settings		
Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.1	bar(g)
LP pump down setting	0.1	bar(g)

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

Tolerance according EN12900

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R452A

Danfoss

Maneurop reciprocating compressor. NTZ096-4

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

30 - 35 - 40 - 45 - 50 - 55 - 60 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 60 - 45 - 50 - 60 - Mass flow in kg/h - 30 - 35 - 40 - 45 - 50 - 40 - 45 - 50 - 50 - 55 - 60 -	-40 1 852 - - - - - - - - - - - - -	-35 2 597 2 308 2 002 - - - - 1 789 1 773 1 734 - - - - - - - - - - - - -	-30 3 540 3 192 2 819 2 431 - - - - 2 092 2 120 2 120 2 119 2 089 - - - - - - - - - - - - -	-25 4 706 4 287 3 837 3 364 2 878 - - - 2 384 2 469 2 517 2 531 2 511 - - - 4.20 4.28 4.33 4.36 - - -	-20 6 123 5 620 5 080 4 512 3 923 3 323 2 720 2 660 2 815 2 925 2 925 2 994 3 024 3 016 2 974 4.66 4.81 4.93 5.01 5.07 5.09 5.08	-15 7 814 7 216 6 574 5 899 5 196 4 476 3 746 2 916 3 152 3 377 3 475 3 366 3 613 3 619 5.10 5.33 5.53 5.70 5.84 5.94 6.01	-10 9 806 9 101 8 346 7 551 6 723 5 871 5 002 3 146 3 477 3 750 3 968 4 133 4 248 4 314 5.48 5.82 6.13 6.40 6.64 6.84 7.00	
30 - 35 - 40 - 45 - 50 - 50 - 60 - 200000 - 55 - 60 - 200000 - 35 - 40 - 35 - 40 - 45 - 50 - 60 - 20000 - 300 - 35 - 60 - 300 - 35 - 60 - 60 - 400 - 45 - 50 - 60 - 45 - 50 - 55 - 60 - 55 -		2 308 2 002 - - - - - - - - - - - - -	3 192 2 819 2 431 - - - 2 092 2 120 2 120 2 119 2 089 - - - - - 3.75 3.78 3.78 3.76 - - -	4 287 3 837 3 364 2 878 - - 2 384 2 469 2 517 2 531 2 511 - - 4.20 4.28 4.33 4.36 4.35 -	5 620 5 080 4 512 3 923 3 323 2 720 2 660 2 815 2 925 2 994 3 024 3 016 2 974 4.66 4.81 4.93 5.01 5.09	7 216 6 574 5 899 5 196 4 476 3 746 2 916 3 152 3 337 3 475 3 566 3 613 3 613 3 619 5.10 5.33 5.53 5.70 5.84 5.94	9 101 8 346 7 551 6 723 5 871 5 002 3 146 3 477 3 750 3 968 4 133 4 248 4 314 5.48 5.82 6.13 6.40 6.64 6.84	- - - - - - - - - - - - - - - - - - -
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Power input in W 30 - 35 - 40 - 45 - 50 - 50 - 50 - 55 - 60 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 60 - 45 - 50 - 60 - Mass flow in kg/h - 30 - 35 - 40 - 45 - 50 - 60 - 55 - 60 - 55 - 60 - Coefficient of performance - 30 - 35 - 3	1 478 	1 789 1 773 1 734 - - - - - - - - - - - - -	2 092 2 120 2 119 2 089 - - - 3.75 3.78 3.78 3.78 3.76 - -	2 384 2 469 2 517 2 531 - - - 4.20 4.28 4.33 4.36 4.35 -	2 660 2 815 2 925 2 994 3 024 3 016 2 974 4.66 4.81 4.93 5.01 5.07 5.09	2 916 3 152 3 337 3 475 3 566 3 613 3 619 5.10 5.33 5.53 5.70 5.84 5.94	3 146 3 477 3 750 3 968 4 133 4 248 4 314 5.48 5.82 6.13 6.40 6.64 6.84	- - - - - - - - - - - - - - - - - - -
30 - 35 - 40 - 45 - 50 - 55 - 60 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 50 - 55 - 60 - Mass flow in kg/h - 30 - 35 - 40 - 45 - 50 - 60 - 255 - 60 - 55 - 60 - 200 - 55 - 60 - 200 - 35 - 30 - 35 - 30 - 35 - 60 -		1 773 1 734 - - - - - - - - - - - - -	2 120 2 119 2 089 - - - - - - - - - - - - - - - -	2 469 2 517 2 531 - - - 4.20 4.28 4.33 4.36 4.35 -	2 815 2 925 2 994 3 024 3 016 2 974 4.66 4.81 4.93 5.01 5.07 5.09	3 152 3 337 3 475 3 566 3 613 3 613 3 619 5.10 5.33 5.53 5.70 5.84 5.94	3 477 3 750 3 968 4 133 4 248 4 314 5.48 5.82 6.13 6.40 6.64 6.84	- - - - - - - - - - - - - - - - - - -
35 - 40 - 45 - 50 - 55 - 60 - current consumption in A 30 - 35 - 40 - 45 - 50 - 60 - 40 - 45 - 50 - 60 - Mass flow in kg/h - 30 - 35 - 40 - 45 - 50 - 60 - 55 - 60 - 55 - 60 - 55 - 60 - 55 - 60 - 30 - 35 - 35		1 773 1 734 - - - - - - - - - - - - -	2 120 2 119 2 089 - - - - - - - - - - - - - - - -	2 469 2 517 2 531 - - - 4.20 4.28 4.33 4.36 4.35 -	2 815 2 925 2 994 3 024 3 016 2 974 4.66 4.81 4.93 5.01 5.07 5.09	3 152 3 337 3 475 3 566 3 613 3 613 3 619 5.10 5.33 5.53 5.70 5.84 5.94	3 477 3 750 3 968 4 133 4 248 4 314 5.48 5.82 6.13 6.40 6.64 6.84	- - - - - - - - - - - - - - - - - - -
40 - 45 - 50 - 55 - 60 - Current consumption in A - 30 - 35 - 40 - 40 - 45 - 50 - 60 - 55 - 60 - Mass flow in kg/h - 30 - 45 - 50 - 60 - 40 - 45 - 50 - 60 - 55 - 60 - Coefficient of performance - 30 - 32 -		1 734 - - - - - - - - - - - - - - -	2 119 2 089 - - - - - - - - - - - - - -	2 517 2 531 - - 4.20 4.28 4.33 4.36 4.35 -	2 925 2 994 3 024 3 016 2 974 4.66 4.81 4.93 5.01 5.07 5.09	3 337 3 475 3 566 3 613 3 619 5.10 5.33 5.53 5.70 5.84 5.94	3 750 3 968 4 133 4 248 4 314 5.48 5.82 6.13 6.40 6.64 6.84	- - - - - - - - - - - - - - - - - - -
45 - 50 - 55 - 60 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 60 - 40 - 45 - 50 - 60 - Mass flow in kg/h - 30 - 40 - 45 - 50 - 60 - 55 - 60 - 55 - 60 - 55 - 60 - Coefficient of performance - 30 - 35 -	2.96 - - - - - - - - - - - - -	- - - - - - - - - - - -	2 089 - - - - - - - - - - - -	2 531 2 511 - - 4.20 4.28 4.33 4.36 4.35 -	2 994 3 024 3 016 2 974 4.66 4.81 4.93 5.01 5.07 5.09	3 475 3 566 3 613 3 619 5.10 5.33 5.53 5.70 5.84 5.94	3 968 4 133 4 248 4 314 5.48 5.82 6.13 6.40 6.64 6.84	- - - - - - - - - - - - - - - - - - -
50 - 55 - 60 - Current consumption in A 30 30 - 35 - 40 - 45 - 50 - 55 - 60 - 35 - 40 - 45 - 60 - Mass flow in kg/h - 30 - 35 - 40 - 45 - 50 - 60 - 55 - 60 - 200 - 35 - 30 - 325 -	2.96 - - - - - - - - - - - -	- - - - - - - - - - -		2 511 - - 4.20 4.28 4.33 4.36 4.35 -	3 024 3 016 2 974 4.66 4.81 4.93 5.01 5.07 5.09	3 566 3 613 3 619 5.10 5.33 5.53 5.70 5.84 5.94	4 133 4 248 4 314 5.48 5.82 6.13 6.40 6.64 6.84	
55 - 60 - Current consumption in A 30 - 35 - - 40 - - 40 - - 45 - - 50 - - 55 - - 60 - - Mass flow in kg/h - - 30 - - 45 - - 55 - - 60 - - 255 - - 60 - - 55 - - 60 - - Coefficient of performance 30 - 35 - - 35 - -	2.96 - - - - - - - - - -	- - - - - - - - -	- - - 3.75 3.78 3.78 3.76 - -	- - 4.20 4.28 4.33 4.36 4.35 -	3 016 2 974 4.66 4.81 4.93 5.01 5.07 5.09	3 613 3 619 5.10 5.33 5.53 5.70 5.84 5.94	4 248 4 314 5.48 5.82 6.13 6.40 6.64 6.84	
60 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 55 - 60 - Mass flow in kg/h - 35 - 40 - 45 - 55 - 60 - Mass flow in kg/h - 35 - 40 - 45 - 50 - 50 - 60 - 20 - 55 - 60 - 20 - 30 - 325 -	2.96 - - - - - - - - - -	- 3.33 3.32 3.29 - - -	- 3.75 3.78 3.78 3.76 - -	- 4.20 4.28 4.33 4.36 4.35 -	2 974 4.66 4.81 4.93 5.01 5.07 5.09	3 619 5.10 5.33 5.53 5.70 5.84 5.94	4 314 5.48 5.82 6.13 6.40 6.64 6.84	
A 30 - 35 - 40 - 45 - 50 - 55 - 60 - Mass flow in kg/h - 35 - 40 - 45 - 55 - 60 - Mass flow in kg/h - 35 - 40 - 45 - 50 - 60 - 55 - 60 - 200 - 35 - 30 - 30 - 35 -	2.96 - - - - - - -	3.33 3.32 3.29 - - - -	3.75 3.78 3.78 3.76 - -	4.20 4.28 4.33 4.36 4.35 -	4.66 4.81 4.93 5.01 5.07 5.09	5.10 5.33 5.53 5.70 5.84 5.94	5.48 5.82 6.13 6.40 6.64 6.84	
30 - 35 - 40 - 45 - 50 - 55 - 60 - Mass flow in kg/h - 30 - 35 - 40 - 45 - 50 - 55 - 60 - 55 - 60 - 200 - 200 - 30 - 30 - 30 - 35 - 30 - 35 -		3.32 3.29 - - -	3.78 3.78 3.76 - -	4.28 4.33 4.36 4.35 -	4.81 4.93 5.01 5.07 5.09	5.33 5.53 5.70 5.84 5.94	5.82 6.13 6.40 6.64 6.84	
30 - 35 - 40 - 45 - 50 - 55 - 60 - Mass flow in kg/h - 30 - 35 - 40 - 45 - 50 - 60 - 255 - 60 - 55 - 60 - 2coefficient of performance - 30 - 35 - 30 - 35 -		3.32 3.29 - - -	3.78 3.78 3.76 - -	4.28 4.33 4.36 4.35 -	4.81 4.93 5.01 5.07 5.09	5.33 5.53 5.70 5.84 5.94	5.82 6.13 6.40 6.64 6.84	
35 - 40 - 45 - 50 - 55 - 60 - Mass flow in kg/h - 30 - 35 - 40 - 45 - 50 - 60 - 255 - 60 - 200 - 55 - 60 - 200 - 30 - 30 - 30 - 35 -		3.32 3.29 - - -	3.78 3.78 3.76 - -	4.28 4.33 4.36 4.35 -	4.81 4.93 5.01 5.07 5.09	5.33 5.53 5.70 5.84 5.94	5.82 6.13 6.40 6.64 6.84	
40 - 45 - 50 - 55 - 60 - Mass flow in kg/h - 30 - 35 - 40 - 45 - 50 - 60 - 255 - 60 - 20 - 55 - 60 - 20 - 30 - 35 - 30 - 35 -	- - - - -	3.29 - - -	3.78 3.76 - -	4.33 4.36 4.35 -	4.93 5.01 5.07 5.09	5.53 5.70 5.84 5.94	6.13 6.40 6.64 6.84	
45 - 50 - 55 - 60 - Mass flow in kg/h - 30 - 35 - 40 - 45 - 50 - 60 - 255 - 60 - 200 - 200 - 30 - 30 - 35 - 30 - 35 -		-	3.76 - -	4.36 4.35 -	5.01 5.07 5.09	5.70 5.84 5.94	6.40 6.64 6.84	- -
50 - 55 - 60 - Mass flow in kg/h - 30 - 35 - 40 - 45 - 50 - 55 - 60 - 200 - 55 - 60 - Coefficient of performance 30 35 -	-	-	-	4.35 -	5.07 5.09	5.84 5.94	6.64 6.84	-
55 - 60 - Mass flow in kg/h - 30 - 35 - 40 - 45 - 50 - 55 - 60 - 200 - 35 - 60 - 200 - 35 - 30 - 35 -		-	-	-	5.09	5.94	6.84	-
60 - Aass flow in kg/h 30 - 30 - 35 - 40 - - 45 - 50 - - 55 - 60 - 200 -	-							-
Mass flow in kg/h 30 - 35 - 40 - 45 - 50 - 55 - 60 - 20 - 35 - 30 - 35 -			-	-	5.08	6.01	7.00	-
30 - 35 - 40 - 45 - 50 - 55 - 60 - 20 - 30 - 30 - 35 -	45	T						
30 - 35 - 40 - 45 - 50 - 55 - 60 - 20 - 30 - 30 - 35 -	45	T						
35 - 40 - 45 - 50 - 55 - 60 - 20efficient of performance 30 35 -	+0	63	86	114	149	192	244	-
40 - 45 - 50 - 55 - 60 - 20efficient of performance 30 35 -	-	59	82	114	145	188	244	-
45 - 50 - 55 - 60 - 20 - 30 - 35 -		54	77	105	140	183	234	-
50 - 55 - 60 - 20efficient of performance - 30 - 35 -		-	70	98	133	175	227	-
55 - 60 - Coefficient of performance - 30 - 35 -		_	-	90	125	167	218	-
60 - Coefficient of performance 30 - 30 - - 35 - -			-	-	115	157	207	
Coefficient of performance 30 - 35 -	-	_	-	-	105	145	194	
30 - 35 -						110	101	
35 -	(C.O.P.)							
	1.25	1.45	1.69	1.97	2.30	2.68	3.12	-
40	-	1.30	1.51	1.74	2.00	2.29	2.62	-
40 -	-	1.15	1.33	1.52	1.74	1.97	2.23	-
45 -	-	-	1.16	1.33	1.51	1.70	1.90	-
50 -	-	-	-	1.15	1.30	1.46	1.63	-
55 -	-	-	-	-	1.10	1.24	1.38	-
60 -	-	-	-	-	0.91	1.04	1.16	-
Iominal performance at to	,	10/		,	Pressure switch		07.7	h/- `
Cooling capacity Power input	2 002 1 734			7	Maximum HP swi Minimum LP swite		27.7 0.1	bar(g) bar(g)
				/		-		
Current consumption Mass flow	3.29 54	A ka/b			LP pump down se	sung	0.1	bar(g)
C.O.P.	54 1.15	kg/h	<u> / c</u>	ERTIFIED	Sound power da	ta		
J.U.I'.	1 10						00.6	40(4)
o: Evaporating temperature a	1.10		ÂSE	RCOM	Sound power leve With accoustic ho		83.6 77.6	dB(A) dB(A)



Maneurop reciprocating compressor. NTZ096-4

Danfoss

R404A

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

3.05

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)									
	-45	-40	-35	-30	-25	-20	-15	-10		
Cooling capacity	in W									
30	1 122	1 647	2 343	3 237	4 363	5 750	7 430	9 437	-	
35	919	1 402	2 042	2 869	3 914	5 210	6 789	8 684	-	
40	-	1 152	1 731	2 483	3 442	4 639	6 108	7 884	-	
45	-	906	1 417	2 090	2 955	4 047	5 399	7 047	-	
50	-	673	1 111	1 697	2 463	3 442	4 669	6 183	-	
55	-	-	821	1 315	1 975	2 834	3 929	5 298	-	
60	-	-	-	953	1 500	2 231	3 185	4 402	-	
35	1 099	1 478	1 773	2 120	2 384	2 815	3 152	3 477	-	
Power input in W 30	1 165	1 478	1 789	2 092	2 384	2 660	2 916	3 146	_	
40	-	1 367	1 734	2 120	2 409	2 925	3 337	3 750	-	
40	-	1 289	1 673	2 089	2 531	2 923	3 475	3 968	-	
50	_	1 198	1 594	2 003	2 511	3 024	3 566	4 133	-	
55	-	-	1 498	1 954	2 462	3 016	3 613	4 248	-	
60	-	-	-	1 854	2 384	2 974	3 619	4 314	-	
Current consum	otion in A									
30	2.67	2.96	3.33	3.75	4.20	4.66	5.10	5.48	-	
35	2.66	2.94	3.32	3.78	4.28	4.81	5.33	5.82	-	
40	-	2.90	3.29	3.78	4.33	4.93	5.53	6.13	-	
45	-	2.83	3.24	3.76	4.36	5.01	5.70	6.40	-	
50	-	2.74	3.16	3.70	4.35	5.07	5.84	6.64	-	

Mass flow in kg/h

55 60

30	38	55	76	102	134	172	217	269	-
35	34	51	71	97	129	167	212	265	-
40	-	45	66	91	123	160	206	259	-
45	-	39	59	84	115	153	198	250	-
50	-	33	52	76	106	143	188	240	-
55	-	-	43	67	96	132	176	228	-
60	-	-	-	57	85	120	163	215	-

4.31

4.24

5.09

5.08

5.94

6.01

6.84

7.00

3.62

3.51

Coefficient of performance (C.O.P.)

	perior (ere	,							
30	0.96	1.11	1.31	1.55	1.83	2.16	2.55	3.00	-
35	0.84	0.98	1.15	1.35	1.59	1.85	2.15	2.50	-
40	-	0.84	1.00	1.17	1.37	1.59	1.83	2.10	-
45	-	0.70	0.85	1.00	1.17	1.35	1.55	1.78	-
50	-	0.56	0.70	0.83	0.98	1.14	1.31	1.50	-
55	-	-	0.55	0.67	0.80	0.94	1.09	1.25	-
60	-	-	-	0.51	0.63	0.75	0.88	1.02	-

Nominal performance at to = -35 °C, tc = 40 °C

Cooling capacity	1 731	W	
Power input	1 734	W	
Current consumption	3.29	А	
Mass flow	66	kg/h	
C.O.P.	1.00		

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.1	bar(g)
LP pump down setting	0.1	bar(g)

Sound	power	uala
Cound	noworl	aval

Sound power level	83.6	dB(A)
With accoustic hood	77.6	dB(A)

Tolerance according EN12900



Danfoss

Maneurop reciprocating compressor. NTZ096-4

Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

Cond. temp. in	Evaporating temperature in °C (to)									
°C (tc)	-45	-40	-35	-30	-25	-20	-15	-10		
Cooling capacity in 30	n w _	2 258	3 271	4 485	5 919	7 595	9 531	11 748	-	
35	-	-	2 840	3 993	5 353	6 941	8 777	10 881	-	
40	-	_	2 395	3 482	4 765	6 262	7 993	9 980	-	
45	-	_	-	2 961	4 161	5 563	7 186	9 051	-	
50	-	-	-	-	3 549	4 851	6 362	8 101	-	
55	-	_	-	-	-	4 135	5 529	7 138	-	
60	-	-	-	-	-	3 421	4 694	6 169	-	
								· · ·		
Power input in W		1 720	2 167	2 575	2.047	2 266	2.514	2.676		
30	-	1 739	2 167	2 575	2 947	3 266	3 514	3 676	-	
35	-		2 130	2 598	3 045	3 452	3 803	4 082	-	
40	-	-	2 062	2 587	3 104	3 596	4 047	4 440	-	
45	-	-	-	2 537	3 122	3 696 3 749	4 243 4 389	4 746 4 999	-	
50 55	-	-	-	-	3 096	3 749	4 389	5 194	-	
60	-	-	-	-	-	3 699	4 400	5 329	-	
00						0.000	1010	0.020		
Current consumpt										
30	-	2.92	3.33	3.75	4.18	4.62	5.06	5.51	-	
35	-	-	3.34	3.82	4.31	4.80	5.29	5.78	-	
40	-	-	3.30	3.85	4.41	4.96	5.52	6.07	-	
45	-	-	-	3.82	4.46	5.10	5.73	6.36	-	
50	-	-	-	-	4.45	5.19	5.91	6.62	-	
55	-	-	-	-	-	5.21	6.04	6.86	-	
60	-	-	-	-	-	5.16	6.11	7.05	-	
Mass flow in kg/h		-	1	1			•			
30	-	55	79	109	144	186	235	293	-	
35	-	-	72	102	137	179	229	287	-	
40	-	-	65	94	130	172	222	280	-	
45	-	-	-	86	121	164	214	272	-	
50	-	-	-	-	112	154	204	263	-	
55	-	-	-	-	-	144	194	252	-	
60	-	-	-	-	-	131	182	240	-	
Coefficient of perf	ormance (C.	O.P.)								
30	-	1.30	1.51	1.74	2.01	2.33	2.71	3.20	-	
35	-	-	1.33	1.54	1.76	2.01	2.31	2.67	-	
40	-	-	1.16	1.35	1.54	1.74	1.98	2.25	-	
45	-	-	-	1.17	1.33	1.50	1.69	1.91	-	
50	-	-	-	-	1.15	1.29	1.45	1.62	-	
55	-	-	-	-	-	1.10	1.23	1.37	-	
60	-	-	-	-	-	0.92	1.04	1.16	-	
Nominal performa	nce at to = -?	35 °C, tc = 40 °C				Pressure switch	settinas			
Cooling capacity		2 395	W			Maximum HP swit		27.7	bar(g	
Power input		2 062	W			Minimum LP switch setting		0.1	bar(g	
Current consumption	on	3.30	А			LP pump down se	0.1	bar(g		
Mass flow		65	kg/h							
C.O.P.		1.16				Sound power dat		04.0	dB(A)	
	to: Evaporating temperature at dew point					Sound power level84With accoustic hood77			AR(A)	

Tolerance according EN12900

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Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Maneurop reciprocating compressor. NTZ096-4

Danfoss

Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K

enomiance	e uala al Ol) Hz, EN 129	oo rauny co	nunuuns, 3u	perneat =			ľ	R404/	
Cond. temp. in	Evaporating temperature in °C (to)									
°C (tc)	-45	-40	-35	-30	-25	-20	-15	-10		
ooling capacity	in W									
30	1 249	2 008	2 951	4 102	5 487	7 132	9 063	11 306	-	
35	921	1 631	2 512	3 589	4 888	6 435	8 258	10 382	-	
40	-	1 256	2 070	3 068	4 275	5 719	7 427	9 427	-	
45	-	892	1 633	2 545	3 655	4 989	6 577	8 447	-	
50	-	548	1 210	2 031	3 037	4 256	5 717	7 450	-	
55	-	-	812	1 535	2 430	3 526	4 853	6 443	-	
60	-	-	-	1 066	1 842	2 807	3 991	5 429	-	
ower input in M	,									
ower input in W 30	1 308	1 739	2 167	2 575	2 947	3 266	3 514	3 676	-	
35	1 193	1 656	2 107	2 598	3 045	3 452	3 803	4 082		
40	-	1 545	2 062	2 587	3 104	3 596	4 047	4 440	-	
45	_	1 402	1 958	2 537	3 122	3 696	4 243	4 746	-	
50	-	1 226	1 818	2 447	3 096	3 749	4 389	4 999		
55	-	-	1 636	2 312	3 023	3 751	4 480	5 194	_	
60	-	-	-	2 131	2 899	3 699	4 515	5 329	_	
				2.01	2000	0.000	1010	0.020		
urrent consum	otion in A	1	1	1	1		r			
30	2.51	2.92	3.33	3.75	4.18	4.62	5.06	5.51	-	
35	2.39	2.87	3.34	3.82	4.31	4.80	5.29	5.78	-	
40	-	2.74	3.30	3.85	4.41	4.96	5.52	6.07	-	
45	-	2.53	3.18	3.82	4.46	5.10	5.73	6.36	-	
50	-	2.21	2.97	3.71	4.45	5.19	5.91	6.62	-	
55	-	-	2.65	3.52	4.37	5.21	6.04	6.86	-	
60	-	-	-	3.21	4.19	5.16	6.11	7.05	-	
lass flow in kg/l	ı									
30	43	67	96	129	168	213	265	323	-	
35	34	59	88	122	161	206	258	316	-	
40	-	49	79	113	152	198	250	309	-	
45	-	39	68	102	142	188	241	300	-	
50	-	27	56	91	131	177	230	290	-	
55	-	-	43	78	118	165	218	278	-	
60	-	-	-	63	104	151	205	265	-	
oefficient of pe 30	0.96	1.15	1.36	1.59	1.86	2.18	2.58	3.08	-	
35	0.77	0.98	1.18	1.38	1.61	1.86	2.30	2.54	-	
40	-	0.30	1.00	1.19	1.38	1.59	1.84	2.12	_	
45	-	0.64	0.83	1.00	1.00	1.35	1.55	1.78	-	
40 50	-	0.04	0.67	0.83	0.98	1.14	1.30	1.49	-	
55	_	-	0.50	0.66	0.80	0.94	1.08	1.24	-	
60	-	-	-	0.50	0.64	0.76	0.88	1.02	-	
		•				•		· ·		
lominal perform	ance at to = -3	5 °C, tc = 40 °C 2 070	W			Pressure switch	-	27.7	her(r)	
Cooling capacity 2 070 W Power input 2 062 W				Maximum HP switch setting 27 Minimum LP switch setting 0.			bar(g) bar(g)			
Current consumption 3.30 A				LP pump down setting 0.			bar(g) bar(g)			
Mass flow 79 kg/h						5.1	20.(9)			
C.O.P.		1.00				Sound power dat	a			
						Sound power level 84			dB(A)	
to: Evaporating temperature at dew point					With accoustic hoo	bd	77	dB(A)		

