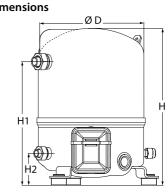
Maneurop reciprocating compressor, NTZ068-4B

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Datasheet, technical data

General Characteristics

Model number (on compressor nameplate)		NTZ068A4LR1B
Code number for Singlepack*		120F0230
Code number for Industrial pack**		120F0231
Drawing number		8501026f
Suction and discharge connections		Rotolock
Suction connection		1-1/4 " Rotolock
Discharge connection		1 " Rotolock
Suction connection with supplied sleeve		5/8 " ODF
Discharge connection with supplied sleeve		1/2 " ODF
Oil sight glass		Threaded
Oil equalisation connection		3/8" flare SAE
Oil drain connection		None
LP gauge port		Schrader
IPR valve		None
Cylinders		I
Swept volume	68 cm	13/rev
Displacement @ Nominal speed	11.8 m3/h @ 2900 rpm	- 14.3 m3/h @ 3500 rpm
Net weight	23	kg
Oil charge	0.95 litre, P	OE - 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	1	2
Refrigerant charge limit	2.5	kg
Approved refrigerants	R404A,	R452A



224 mm 333 mm =263 mm =68 mm =- mm

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	7.11 Ω
Maximum Continuous Current (MCC)	8.4 A
Locked Rotor Amps (LRA)	25 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				

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

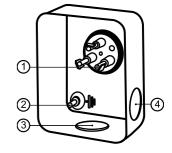
Installation instructions

Approvals : CE certified, -, -

*Singlepack: Compressor in cardboard box

**Industrial pack: 12 Unboxed compressors on pallet (order per multiples of 12)

Terminal box



IP55 (with cable gland)

- Spade connectors 1/4" 1: 2:
 - Earth M4-12
- 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, NTZ068-4B

Rotolock accessories, suction side	Code no.	
Solder sleeve, P09 (1-1/4" Rotolock, 5/8" ODF)	8153011	
Angle adapter, C09 (1-1/4" Rotolock, 5/8" ODF)	8168009	
Rotolock valve, V09 (1-1/4" Rotolock, 5/8" ODF)	8168033	Gaskets, sleeves and nuts
Gasket, 1-1/4"	8156131	
Rotolock accessories, discharge side	Code no.	
Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007	
Angle adapter, C06 (1" Rotolock, 1/2" ODF)	8168007	
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031	
Gasket, 1"	8156130	1 2 3
Rotolock accessories, sets	Code no.	1: Gasket
Angle adapter set, C09 (1-1/4"~5/8"), C06 (1"~1/2")	7703012	2: Solder sleeve
Valve set, V09 (1-1/4"~5/8"), V06 (1"~1/2")	7703005	3: Rotolock nut
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009	
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, 54 W, 230 V, CE mark, UL	7773106	1
Belt type crankcase heater, 54 W, 400 V, UL	7773013	
Miscellaneous accessories	Code no.	
Acoustic hood for 1 cylinder compressor	120Z0575	□ 4
Oil equalisation nut	8153127	5 5
Spare parts	Code no.	6
Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts	8156001	
Oil sight glass with gaskets (black & white)	8156019	
	8156145	1: Bolt (3x)
Gasket for oil sight glass (black chloroprene)		
Gasket for oil sight glass (black chloroprene) Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp		2: Lock washer (3x)
Gasket for oil sight glass (black chloroprene) Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp	8156134	2: Lock washer (3x) 3: Flat washer (3x)
		. ,

5: Grommet (: 6: Nut (3x)



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Maneurop reciprocating compressor. NTZ068-4

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

R452A

				Evapora	ting temperature	in °C (to)			
°C (tc)	-45	-40	-35	-30	-25	-20	-15	-10	
Cooling capacity	in W	1		1	1				
30	-	-	2 106	2 835	3 711	4 746	5 956	7 354	-
35	-	-	1 897	2 576	3 390	4 353	5 478	6 778	-
40	-	-	1 684	2 312	3 063	3 951	4 990	6 193	-
45	-	-	-	2 042	2 730	3 543	4 494	5 599	-
50	-	-	-	-	2 393	3 129	3 993	4 998	-
55	-	-	-	-	-	2 711	3 486	4 391	-
60	-	-	-	-	-	-	-	-	-
Power input in W									
Power input in W 30	-	-	1 242	1 424	1 661	1 971	2 371	2 879	-
35	-	_	1 251	1 434	1 670	1 978	2 374	2 877	-
40	-	-	1 284	1 474	1 717	2 030			-
	-	-	-				2 430	2 934	-
45				1 535	1 791	2 116	2 526	3 040	
50	-	-	-	-	1 881	2 225	2 653	3 183	-
55 60	-	-	-	-	-	2 346	2 799	3 352	-
00	-	-	-	-	-	-	-	-	-
Current consump	tion in A								
30	-	-	3.19	3.38	3.60	3.85	4.14	4.48	-
35	-	-	3.28	3.50	3.76	4.06	4.41	4.81	-
40	-	-	3.31	3.57	3.87	4.22	4.62	5.08	-
45	-	-	-	3.60	3.94	4.33	4.78	5.29	-
50	-	-	-	-	3.97	4.41	4.90	5.47	-
55	-	-	-	-	-	4.46	5.01	5.63	-
60	-	_	-	_	_	-	-	-	-
00									
Mass flow in kg/h	I								
30	-	-	51	68	90	115	146	182	-
35	-	-	48	65	86	112	141	176	-
40	-	-	45	62	83	107	136	171	-
	-	-	-	58	78	102	131	164	-
45			-	-	74	97	125	157	-
45 50	-	-					110	150	-
50	-	-	-	-	-	91	118		
			-	-	-	91	-	-	-
50 55	-	-							-
50 55 60	-	-							-
50 55 60	-	-							-
50 55 60 Coefficient of per	-	-	-	-	-	-	-	-	-
50 55 60 Coefficient of per 30	- - formance (C.C		- 1.70	- 1.99	- 2.23	- 2.41	- 2.51	- 2.55	-
50 55 60 Coefficient of per 30 35	- - formance (C.C		- 1.70 1.52	- 1.99 1.80	- 2.23 2.03	- 2.41 2.20	- 2.51 2.31	- 2.55 2.36	-
50 55 60 Coefficient of per 30 35 40	- - formance (C.C - - -		- 1.70 1.52 1.31	- 1.99 1.80 1.57	- 2.23 2.03 1.78	- 2.41 2.20 1.95	- 2.51 2.31 2.05	- 2.55 2.36 2.11	
50 55 60 Coefficient of per 30 35 40 45	- - formance (C.C - - - -		- 1.70 1.52 1.31 -	- 1.99 1.80 1.57 1.33	- 2.23 2.03 1.78 1.52	- 2.41 2.20 1.95 1.67	- 2.51 2.31 2.05 1.78	- 2.55 2.36 2.11 1.84	
50 55 60 Coefficient of per 30 35 40 45 50	- - formance (C.C - - - - - -		- 1.70 1.52 1.31 -	- 1.99 1.80 1.57 1.33 -	- 2.23 2.03 1.78 1.52 1.27	- 2.41 2.20 1.95 1.67 1.41	- 2.51 2.31 2.05 1.78 1.51	- 2.55 2.36 2.11 1.84 1.57	-
50 55 60 20efficient of per 30 35 40 45 50 55 60	- formance (C.C - - - - - - - - - -		- 1.70 1.52 1.31 - - -	- 1.99 1.80 1.57 1.33 - -	- 2.23 2.03 1.78 1.52 1.27 -	- 2.41 2.20 1.95 1.67 1.41 1.16 -	- 2.51 2.31 2.05 1.78 1.51 1.25 -	- 2.55 2.36 2.11 1.84 1.57 1.31	
50 55 60 20efficient of per 30 35 40 45 50 55 60	- formance (C.C - - - - - - - - - -		- 1.70 1.52 1.31 - - -	- 1.99 1.80 1.57 1.33 - -	- 2.23 2.03 1.78 1.52 1.27 -	- 2.41 2.20 1.95 1.67 1.41 1.16 - Pressure switch s	- 2.51 2.31 2.05 1.78 1.51 1.25 - settings	- 2.55 2.36 2.11 1.84 1.57 1.31 -	- - - - - - - -
50 55 60 Coefficient of per 30 35 40 45 50 55 60 Nominal perform Cooling capacity	- formance (C.C - - - - - - - - - -		- 1.70 1.52 1.31 - - - - W	- 1.99 1.80 1.57 1.33 - -	- 2.23 2.03 1.78 1.52 1.27 -	- 2.41 2.20 1.95 1.67 1.41 1.16 - Pressure switch s Maximum HP switt	- 2.51 2.31 2.05 1.78 1.51 1.25 - settings ch setting	- 2.55 2.36 2.11 1.84 1.57 1.31 - 27.7	- - - - - - - - - bar(g)
50 55 60 Coefficient of per 30 35 40 45 50 55 60 Nominal perform. Cooling capacity Power input	- formance (C.(- - - - - - - - - - - - - - - - - - -		- 1.70 1.52 1.31 - - - - - W W	- 1.99 1.80 1.57 1.33 - -	- 2.23 2.03 1.78 1.52 1.27 -	- 2.41 2.20 1.95 1.67 1.41 1.16 - Pressure switch s Maximum HP switc Minimum LP switc	- 2.51 2.31 2.05 1.78 1.51 1.25 - settings ch setting h setting	- 2.55 2.36 2.11 1.84 1.57 1.31 - 27.7 0.1	- - - - - - - - - bar(g) bar(g)
50 55 60 Coefficient of per 30 35 40 45 50 55 60 Nominal perform: Cooling capacity Power input Current consumpti	- formance (C.(- - - - - - - - - - - - - - - - - - -		- 1.70 1.52 1.31 - - - W W W A	- 1.99 1.80 1.57 1.33 - -	- 2.23 2.03 1.78 1.52 1.27 -	- 2.41 2.20 1.95 1.67 1.41 1.16 - Pressure switch s Maximum HP switt	- 2.51 2.31 2.05 1.78 1.51 1.25 - settings ch setting h setting	- 2.55 2.36 2.11 1.84 1.57 1.31 - 27.7	- - - - - - - - - bar(g)
50 55 60 Coefficient of per 30 35 40 45 50 55 60 Wominal perform. Cooling capacity Power input	- formance (C.(- - - - - - - - - - - - - - - - - - -		- 1.70 1.52 1.31 - - - - - W W	- 1.99 1.80 1.57 1.33 - -	- 2.23 2.03 1.78 1.52 1.27 -	- 2.41 2.20 1.95 1.67 1.41 1.16 - Pressure switch s Maximum HP switc Minimum LP switc	- 2.51 2.31 2.05 1.78 1.51 1.25 - settings ch setting h setting ting	- 2.55 2.36 2.11 1.84 1.57 1.31 - 27.7 0.1	- - - - - - - - - bar(g) bar(g)

tc: Condensing temperature at dew point

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

Tolerance according EN12900



Maneurop reciprocating compressor. NTZ068-4

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R452A

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

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

Cooling capacity in W

e comig capaci	.,								
30	-	1 365	1 927	2 625	3 476	4 497	5 706	7 118	-
35	-	1 188	1 707	2 350	3 135	4 079	5 199	6 512	-
40	-	1 011	1 485	2 072	2 790	3 655	4 685	5 899	-
45	-	-	1 263	1 793	2 442	3 227	4 167	5 279	-
50	-	-	-	1 515	2 094	2 798	3 645	4 655	-
55	-	-	-	1 240	1 747	2 368	3 122	4 027	-
60	-	-	-	-	-	-	-	-	-

Power input in W

30	-	1 098	1 242	1 424	1 661	1 971	2 371	2 879	-
35	-	1 105	1 251	1 434	1 670	1 978	2 374	2 877	-
40	-	1 128	1 284	1 474	1 717	2 030	2 430	2 934	-
45	-	-	1 329	1 535	1 791	2 116	2 526	3 040	-
50	-	-	-	1 604	1 881	2 225	2 653	3 183	-
55	-	-	-	1 672	1 976	2 346	2 799	3 352	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

30	-	3.03	3.19	3.38	3.60	3.85	4.14	4.48	-
35	-	3.08	3.28	3.50	3.76	4.06	4.41	4.81	-
40	-	3.08	3.31	3.57	3.87	4.22	4.62	5.08	-
45	-	-	3.31	3.60	3.94	4.33	4.78	5.29	-
50	-	-	-	3.60	3.97	4.41	4.90	5.47	-
55	-	-	-	3.59	3.99	4.46	5.01	5.63	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

30	-	45	61	81	105	132	164	200	-
35	-	42	58	78	101	128	159	194	-
40	-	38	54	74	96	123	153	188	-
45	-	-	50	69	91	117	147	181	-
50	-	-	-	64	86	111	140	173	-
55	-	-	-	59	80	104	132	165	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

		/							
30	-	1.24	1.55	1.84	2.09	2.28	2.41	2.47	-
35	-	1.07	1.36	1.64	1.88	2.06	2.19	2.26	-
40	-	0.90	1.16	1.41	1.62	1.80	1.93	2.01	-
45	-	-	0.95	1.17	1.36	1.53	1.65	1.74	-
50	-	-	-	0.94	1.11	1.26	1.37	1.46	-
55	-	-	-	0.74	0.88	1.01	1.12	1.20	-
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	1 485	W	
Power input	1 284	W	
Current consumption	3.31	А	
Mass flow	54	kg/h	
C.O.P.	1.16		

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



Danfoss

Maneurop reciprocating compressor. NTZ068-4

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

R40	4A
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Cond. temp. in		Evaporating temperature in °C (to)									
°C (tc)	-45	-40	-35	-30	-25	-20	-15	-10			
Seeling severity.	\ A /										
30	-	1 604	2 228	2 976	3 859	4 891	6 083	7 447	-		
35		-	1 979	2 667	3 479	4 427	5 524	6 782			
40		-	1 750	2 379	3 121	3 988	4 992	6 146			
45	-	-	-	2 111	2 785	3 572	4 485	5 536	-		
50	-	-	-	-	2 468	3 177	4 001	4 951	-		
55	-	_	_	-	-	2 801	3 537	4 388	-		
60	-	-	-	-	-	2 440	3 091	3 844	-		
								· · ·			
Power input in W 30	_	1 243	1 448	1 655	1 866	2 085	2 314	2 554	_		
35	-	-			1 942				-		
40	-	-	1 484	1 710		2 183	2 433	2 697	-		
	-		1 516	1 763 1 812	2 017 2 090	2 280 2 378	2 555 2 678	2 843 2 993			
45 50	-	-							-		
50 55	-		-	-	2 161	2 475 2 572	2 802 2 928	3 145 3 301	-		
60	-	-	-	-	-	2 668	3 055	3 459	-		
00	-	-	-	-	-	2 000	5 055	3 439	-		
Current consump	tion in A	-			•						
30	-	3.13	3.36	3.58	3.81	4.07	4.37	4.73	-		
35	-	-	3.40	3.66	3.93	4.21	4.54	4.91	-		
40	-	-	3.42	3.73	4.04	4.37	4.72	5.13	-		
45	-	-	-	3.78	4.14	4.52	4.92	5.37	-		
50	-	-	-	-	4.22	4.66	5.12	5.62	-		
55	-	-	-	-	-	4.79	5.32	5.88	-		
60	-	-	-	-	-	4.89	5.50	6.13	-		
Mass flow in kg/h											
30	-	39	54	72	94	120	150	186	-		
35	-	-	50	68	89	115	144	179	-		
40	-	-	47	65	85	110	138	172	-		
45	-	-	-	61	81	105	133	166	-		
50	-	-	-	-	78	101	128	160	-		
55	-	-	-	-	-	97	124	155	-		
60	-	-	-	-	-	94	120	150	-		
0											
30	-	J.P.) 1.29	1.54	1.80	2.07	2.35	2.63	2.92	-		
35	-	_	1.33	1.56	1.79	2.03	2.27	2.51	-		
40	-	-	1.15	1.35	1.55	1.75	1.95	2.16	-		
45	-	-	-	1.16	1.33	1.50	1.67	1.85	-		
50	-	-	-	-	1.14	1.28	1.43	1.57	_		
55	-	-	-	-	-	1.09	1.40	1.33	_		
60	-	-	-	-	-	0.91	1.01	1.11	-		
					•	_		· .			
Nominal performa	ance at to = -3	,	10/		,	Pressure switch settings Maximum HP switch setting 27.7 bar(g)					
Cooling capacity Power input		1 750 1 516	W W		·/ ٦	Maximum HP swite		27.7 0.1	bar(g)		
Current consumption	on	3.42	A		/	LP pump down se	-	0.1	bar(g) bar(g)		
Mass flow		47	kg/h			21 panp down 30	········9	0.1	Jai(g)		
C.O.P.		1.15	<u> </u>		ERTIFIED RODUCT	Sound power dat	a				
						Sound power leve	I	64	dB(A)		
to: Evaporating ten					Sercom Sound power level With accoustic hood			54	dB(A)		

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

Tolerance according EN12900



Maneurop reciprocating compressor. NTZ068-4

Danfoss

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

Performance	e data at 50	0 Hz, EN 129	00 rating co	nditions, Su	perheat = 10	к			R404A
Cond. temp. in °C (tc)				Evapora	ating temperature	in °C (to)			
	-45	-40	-35	-30	-25	-20	-15	-10	
Cooling capacity	in W								
30	956	1 427	2 010	2 722	3 577	4 593	5 784	7 167	-
35	793	1 221	1 751	2 398	3 177	4 104	5 197	6 471	-
40	647	1 035	1 513	2 096	2 800	3 642	4 638	5 805	-
45	517	865	1 293	1 815	2 446	3 204	4 105	5 167	-
50	-	711	1 089	1 551	2 112	2 787	3 595	4 553	-
55	-	-	899	1 302	1 793	2 388	3 104	3 960	-
60	-	-	719	1 064	1 487	2 002	2 628	3 383	-
Power input in W	,								
30	1 039	1 243	1 448	1 655	1 866	2 085	2 314	2 554	-
35	1 039	1 261	1 484	1 710	1 942	2 183	2 433	2 697	-
40	1 032	1 273	1 516	1 763	2 017	2 280	2 555	2 843	-
45	1 017	1 278	1 543	1 812	2 090	2 378	2 678	2 993	-
50	-	1 276	1 564	1 858	2 161	2 475	2 802	3 145	-
55	-	-	1 580	1 900	2 230	2 572	2 928	3 301	-
60	-	-	1 591	1 939	2 297	2 668	3 055	3 459	-
urrent consum	otion in A 2.89	3.13	3.36	3.58	3.81	4.07	4.37	4.73	
35		3.13			1		4.54		
40	2.84	3.10	3.40 3.42	3.66 3.73	3.93 4.04	4.21 4.37	4.54	4.91 5.13	-
40	2.73	3.02	3.42	3.78	4.14	4.52	4.92	5.37	-
50	-	2.90	3.36	3.79	4.22	4.66	5.12	5.62	
55	_	-	3.26	3.78	4.28	4.79	5.32	5.88	-
60	-	-	3.11	3.71	4.30	4.89	5.50	6.13	_
lass flow in kg/r								1	
30	33	48	65	86	110	137	169	205	-
35	29	44	61	81	105	131	162	197	-
40	26	41	57	77	100	126	156	190	-
45	- 23	37	54	73	95	121	150	183	-
50 55		- 34	51 48	69 66	91 87	116 112	144 139	177	-
55 60	-	-	40	63	84	108	139	171 166	
Coefficient of per			-13	03	04	100	155	100	
30	0.92	1.15	1.39	1.65	1.92	2.20	2.50	2.81	-
35	0.76	0.97	1.18	1.40	1.64	1.88	2.14	2.40	-
40	0.63	0.81	1.00	1.19	1.39	1.60	1.82	2.04	-
45	0.51	0.68	0.84	1.00	1.17	1.35	1.53	1.73	
50	-	0.56	0.70	0.83	0.98	1.13	1.28	1.45	-
55	_	-	0.57	0.69	0.80	0.93	1.06	1.10	-
60	-	-	0.45	0.65	0.65	0.75	0.86	0.98	-

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

Cooling capacity	1 513	W
Power input	1 516	W
Current consumption	3.42	А
Mass flow	57	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

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	64	dB(A)
With accoustic hood	54	dB(A)

Tolerance according EN12900



Danfoss

Maneurop reciprocating compressor. NTZ068-4

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

Cond. temp. in	Evaporating temperature in °C (to)										
°C (tc)	-45	-40	-35	-30	-25	-20	-15	-10			
Cooling capacity i	n W										
30	-	1 893	2 630	3 512	4 554	5 771	7 177	8 788	-		
35	-	-	2 336	3 147	4 105	5 224	6 518	8 003	-		
40	-	-	2 065	2 808	3 683	4 706	5 891	7 252	-		
45	-	-	-	2 491	3 286	4 215	5 292	6 533	-		
50	-	-	-	-	2 912	3 749	4 721	5 842	-		
55	-	-	-	-	-	3 305	4 173	5 177	-		
60	-	-	-	-	-	2 880	3 647	4 536	-		
Power input in W											
30	-	1 467	1 708	1 952	2 202	2 461	2 730	3 014	-		
35	-	-	1 751	2 018	2 292	2 576	2 871	3 182	-		
40	-	_	1 789	2 080	2 380	2 691	3 015	3 355	-		
45	_		-	2 139	2 466	2 806	3 160	3 531	-		
50	_	_	_	-	2 550	2 921	3 307	3 712	-		
55	_		-	-	- 2 330	3 035	3 455	3 895	-		
60	-		-	-	_	3 149	3 405	4 082	-		
00	_					0 140	0 000	4 002	_		
urrent consumpt	ion in A			1	1		1	1 1			
30	-	3.13	3.36	3.58	3.81	4.07	4.37	4.73	-		
35	-	-	3.40	3.66	3.93	4.21	4.54	4.91	-		
40	-	-	3.42	3.73	4.04	4.37	4.72	5.13	-		
45	-	-	-	3.78	4.14	4.52	4.92	5.37	-		
50	-	-	-	-	4.22	4.66	5.12	5.62	-		
55	-	-	-	-	-	4.79	5.32	5.88	-		
60	-	-	-	-	-	4.89	5.50	6.13	-		
/lass flow in kg/h											
30	-	46	63	85	111	141	177	219	-		
35	-	-	60	80	105	135	170	211	-		
40	-	-	56	76	101	129	163	203	-		
45	-	-	-	72	96	124	157	196	-		
50	-	-	-	-	92	119	151	189	-		
55	-	-	-	-	-	115	146	183	-		
60	-	-	-	-	-	111	141	177	-		
Coefficient of perf	ormanco (C										
30	-	1.29	1.54	1.80	2.07	2.35	2.63	2.92	-		
35	-	-	1.33	1.56	1.79	2.03	2.27	2.51	-		
40	-	-	1.15	1.35	1.55	1.75	1.95	2.16	-		
45	-	-	-	1.16	1.33	1.50	1.67	1.85	-		
50	-	-	-	-	1.14	1.28	1.43	1.57	-		
55	-	-	-	-	-	1.09	1.21	1.33	-		
60	-	-	-	-	-	0.91	1.01	1.11	-		
lominal porforma	nco at to - 3	35 °C to = 40 °C				Broceuro owitch	sottings				
Nominal performa Cooling capacity	nce dl l0 = -	2 065	W	_		Pressure switch Maximum HP swit		27.7	bar(g)		
Power input		1 789	Ŵ			Minimum LP swite		0.1	bar(g)		
Current consumptio	n	3.42	A			LP pump down se	-	0.1	bar(g)		
lass flow		56	kg/h			, · · ·	~				
C.O.P.		1.15				Sound power da					
_						Sound power leve		67	dB(A)		
to: Evaporating temperature at dew point						With accoustic ho	ho	57	dB(A)		

Tolerance according EN12900

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

Maneurop reciprocating compressor. NTZ068-4

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

Cond. temp. in °C (tc) Cooling capacity in 30 35 40 45 50 55 60 Power input in W 30 35	-45 W 1 128 936 764 611 -	-40 1 684 1 441 1 221	-35	Evapora -30	ating temperature	n °C (to) -20											
Cooling capacity in 30 35 40 45 50 55 60 Power input in W 30	1 128 936 764 611	1 684 1 441		-30	-25	_20	45	Evaporating temperature in °C (to)									
30 35 40 45 50 55 60 9 Power input in W 30	1 128 936 764 611	1 441	2 372			-20	-15	-10									
30 35 40 45 50 55 60 0 ower input in W 30	1 128 936 764 611	1 441	2 372														
35 40 45 50 55 60 Power input in W 30	936 764 611	1 441		3 212	4 221	5 419	6 825	8 457	-								
45 50 55 60 Power input in W 30	611	1 221	2 066	2 829	3 748	4 843	6 132	7 636	-								
50 55 60 ower input in W 30	611		1 785	2 473	3 304	4 298	5 473	6 850	-								
55 60 ower input in W 30	-	1 021	1 526	2 141	2 887	3 781	4 844	6 097	-								
60 ower input in W 30		838	1 285	1 830	2 492	3 289	4 242	5 372	-								
ower input in W	-	-	1 061	1 536	2 116	2 818	3 663	4 673	-								
30	-	-	848	1 256	1 754	2 362	3 101	3 992	-								
30																	
	4 000	4.407	4 700	4.050	0.000	0.404	0.700	0.044									
35	1 226 1 227	1 467	1 708	1 952	2 202	2 461	2 730	3 014	-								
		1 488	1 751	2 018	2 292	2 576	2 871	3 182									
40	1 218	1 502	1 789	2 080	2 380	2 691	3 015	3 355									
45	1 200	1 508	1 820	2 139	2 466	2 806	3 160	3 531	-								
50 55	-	1 506	1 846 1 865	2 193 2 243	2 550 2 632	2 921 3 035	3 307 3 455	3 712 3 895	-								
60	-	-	1 805	2 243	2 632	3 035	3 455	3 895 4 082	-								
urrent consumpti	on in A	•		•		•		T									
30	2.89	3.13	3.36	3.58	3.81	4.07	4.37	4.73	-								
35	2.84	3.13	3.40	3.66	3.93	4.21	4.54	4.91	-								
40	2.75	3.10	3.42	3.73	4.04	4.37	4.72	5.13	-								
45	2.61	3.02	3.41	3.78	4.14	4.52	4.92	5.37	-								
50	-	2.90	3.36	3.79	4.22	4.66	5.12	5.62	-								
55	-	-	3.26	3.78	4.28	4.79	5.32	5.88	-								
60	-	-	3.11	3.71	4.30	4.89	5.50	6.13	-								
lass flow in kg/h																	
30	39	56	77	101	130	162	200	242	-								
35	35	52	72	96	123	155	192	233	-								
40	31	48	68	91	118	149	184	224	-								
45	27	44	64	86	112	142	177	216	-								
50	-	41	60	82	107	137	171	209	-								
55	-	-	56	78	103	132	165	202	-								
60	-	-	53	74	99	127	159	196	-								
- Mislant - f f																	
oefficient of perfo	0.92	1.15	1.39	1.65	1.92	2.20	2.50	2.81	_								
35	0.32	0.97	1.18	1.40	1.64	1.88	2.14	2.40									
40	0.63	0.97	1.00	1.40	1.39	1.60	1.82	2.40									
40	0.51	0.68	0.84	1.19	1.17	1.35	1.52	1.73									
50	-	0.56	0.84	0.83	0.98	1.13	1.33	1.45	-								
50	-	0.00	0.70	0.69	0.98	0.93	1.20	1.40									

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

Cooling capacity	1 785	W
Power input	1 789	W
Current consumption	3.42	А
Mass flow	68	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)

0.98

0.86

Sound power data

0.75

Sound power level	67	dB(A)
With accoustic hood	57	dB(A)

Tolerance according EN12900

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0.55

0.65

0.45



60