

ENGINEERING TOMORROW

Datasheets

Danfoss Reciprocating compressors **MT / MTZ / NTZ**



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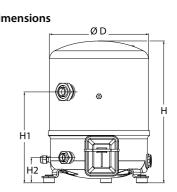
Datasheet, technical data

Maneurop reciprocating compressor, MTZ064-4

Dantoss

General Characteristics

Model number (on compressor nameplate)		MTZ64HM4CVE
Code number for Singlepack*		MTZ64-4VI
Code number for Industrial pack**		MTZ64-4VM
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	<u>!</u>
Swept volume	107.71 c	m3/rev
Displacement @ Nominal speed	18.7 m3/h @ 2900 rpm -	22.6 m3/h @ 3500 rpm
Net weight	39	kg
Oil charge	1.8 litre, PC	DE - 175PZ
Maximum system test pressure Low Side / High side	25 bar(g) /	30 bar(g)
Maximum differential test pressure	301	oar
Maximum number of starts per hour	1:	2
Refrigerant charge limit	51	g
Approved refrigerants	R404A,R134a,R407A/C/F,R4	448A,R449A,R452A,R513A



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	2.39 Ω
Maximum Continuous Current (MCC)	14 A
Locked Rotor Amps (LRA)	64 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:
		1:

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, UL certified (file SA6873), -

*Singlepack: Compressor in cardboard box

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

P55 (with cable gland)

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, MTZ064-4

6: Nut (3x)

Rotolock accessories, suction side	Code no.	
Solder sleeve, P07 (1-3/4" Rotolock, 7/8" ODF)	8153013	
Rotolock valve, V07 (1-3/4" Rotolock, 7/8" ODF)	8168032	
Gasket, 1-3/4"	8156132	Gaskets, sleeves and nuts
Rotolock accessories, discharge side	Code no.	
Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008	
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029	
Gasket, 1-1/4"	8156131	
Rotolock accessories, sets	Code no.	
Valve set, V07 (1-3/4"~7/8"), V04 (1-1/4"~3/4")	7703006	
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009	1: Gasket
		2: Solder sleeve
Oil / lubricants	Code no.	3: Rotolock nut
POE lubricant, 175PZ, 1 litre can	120Z0638	
POE lubricant, 175PZ, 2.5 litre can	120Z0639	
Crankcase heaters	Code no.	
PTC heater 27W,CE mark, UL	120Z0459	
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	7773107	
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	7773117	Mounting kit
Belt type crankcase heater, 65 W, 460 V, CE mark, UL	120Z0466	
		1
Miscellaneous accessories	Code no.	
Electronic soft start kit, MCI 15 C	7705006	
Acoustic hood for 2 cylinder compressor	120Z0472	
Oil equalisation nut	8153127	
Spare parts	Code no.	5
Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts	8156001	
Oil sight glass with gaskets (black & white)	8156019	
Gasket for oil sight glass (black chloroprene)	8156145	
Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp	8156134	1: Bolt (3x)
Service Actor terminal box of x 20 min, including reover, relamp	0100104	2: Lock washer (3x)
		3: Flat washer (3x)
		4: Sleeve (3x)
		5: Grommet (3x)



Maneurop reciprocating compressor. MTZ064-4

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Performance	e data at 50	0 Hz, EN 129	00 rating co	nditions				r	R4070
Cond. temp. in				Evapora	ating temperatur	e in °C (to)			
°C (tc)	-15	-10	-5	0	5	10	15		
cooling capacity			1	1			1	,	
35	6 299	8 351	10 830	13 785	17 266	21 320	26 000	-	-
40	5 680	7 599	9 921	12 695	15 971	19 799	24 227	-	-
45	5 079	6 858	9 016	11 603	14 668	18 261	22 431	-	-
50	-	6 136	8 123	10 516	13 364	16 715	20 621	-	-
55	-	-	7 252	9 443	12 066	15 170	18 803	-	-
60	-	-	-	8 393	10 784	13 632	16 988	-	-
65	-	-	-	7 372	9 525	12 111	15 181	-	-
ower input in W	ı								
35	2 778	3 083	3 341	3 563	3 759	3 940	4 116	-	-
40	2 866	3 231	3 541	3 806	4 036	4 242	4 435	-	-
45	2 913	3 352	3 726	4 046	4 323	4 566	4 787	-	-
50	-	3 436	3 887	4 275	4 610	4 904	5 166	-	-
55	-	-	4 017	4 485	4 891	5 247	5 562	-	-
60	-	-	-	4 668	5 157	5 588	5 969	-	-
65	-	-	-	4 816	5 401	5 918	6 377	-	-
			1					L	
urrent consum	ption in A		1	1			1		
35	6.07	6.40	6.74	7.05	7.32	7.53	7.66	-	-
40	6.19	6.56	6.94	7.30	7.62	7.89	8.07	-	-
45	6.29	6.72	7.16	7.58	7.97	8.30	8.55	-	-
50	-	6.86	7.38	7.88	8.34	8.75	9.09	-	-
55	-	-	7.57	8.16	8.72	9.23	9.67	-	-
60	-	-	-	8.42	9.09	9.71	10.26	-	-
65	-	-	-	8.63	9.42	10.17	10.85	-	-
ass flow in kg/ł	h								
35	137	178	227	285	351	428	515	- [-
40	130	170	219	275	341	416	502	-	-
45	122	162	209	265	329	404	489	-	-
50	_	154	200	254	317	390	474	_	-
55	-	-	190	243	304	376	458	-	-
60	-	-	-	231	291	361	442	-	-
65	-	-	-	219	278	346	424	-	-
		•	1				1		
pefficient of per		1		r	1	I	1		
35	2.27	2.71	3.24	3.87	4.59	5.41	6.32	-	-
40	1.98	2.35	2.80	3.34	3.96	4.67	5.46	-	-
45	1.74	2.05	2.42	2.87	3.39	4.00	4.69	-	-
50	-	1.79	2.09	2.46	2.90	3.41	3.99	-	-
55	-	-	1.81	2.11	2.47	2.89	3.38	-	-
60	-	-	-	1.80	2.09	2.44	2.85	-	-
65	-	-	-	1.53	1.76	2.05	2.38	-	-
ominal perform	ance at to = 5	°C tc = 50 °C				Pressure switch	settings		
poling capacity	ance at 10 - 5	13 364	4 W		/ -	Maximum HP swi	-	29.4	bar(g)
ower input		4 610			/	Minimum LP swite	•	1.4	bar(g)
urrent consumpt	tion	8.34	А			LP pump down se	etting	1.7	bar(g)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

317

2.90

kg/h

Tolerance according EN12900

Sound power data

Sound power level

With accoustic hood

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CERTIFIED

ASERCOM



Mass flow

C.O.P.

83

77

dB(A)

dB(A)

Maneurop reciprocating compressor. MTZ064-4

Danfoss

R407C

Performance data at 50 Hz, ARI rating conditions

Cond. temp. in		Evaporating temperature in °C (to)								
°C (tc)	-15	-10	-5	0	5	10	15			
• • •										
Cooling capacit	y in W		1	1				1		
Cooling capacity 35	y in W 6 780	8 978	11 629	14 785	18 498	22 819	27 798	-	-	

40	0 147	0212	10708	13 085	17 190	21 292	20 025	-	-
45	5 532	7 457	9 790	12 581	15 883	19 748	24 228	-	-
50	-	6 722	8 884	11 482	14 568	18 196	22 416	-	-
55	-	-	7 999	10 396	13 261	16 644	20 598	-	-
60	-	-	-	9 335	11 970	15 103	18 786	-	-
65	-	-	-	8 307	10 707	13 584	16 990	-	-

Power input in W

35	2 778	3 083	3 341	3 563	3 759	3 940	4 116	-	-
40	2 866	3 231	3 541	3 806	4 036	4 242	4 435	-	-
45	2 913	3 352	3 726	4 046	4 323	4 566	4 787	-	-
50	-	3 436	3 887	4 275	4 610	4 904	5 166	-	-
55	-	-	4 017	4 485	4 891	5 247	5 562	-	-
60	-	-	-	4 668	5 157	5 588	5 969	-	-
65	-	-	-	4 816	5 401	5 918	6 377	-	-

Current consumption in A

35	6.07	6.40	6.74	7.05	7.32	7.53	7.66	-	-
40	6.19	6.56	6.94	7.30	7.62	7.89	8.07	-	-
45	6.29	6.72	7.16	7.58	7.97	8.30	8.55	-	-
50	-	6.86	7.38	7.88	8.34	8.75	9.09	-	-
55	-	-	7.57	8.16	8.72	9.23	9.67	-	-
60	-	-	-	8.42	9.09	9.71	10.26	-	-
65	-	-	-	8 63	9 42	10 17	10.85	-	-

Mass flow in kg/h

35	136	177	226	283	349	425	512	-	-
40	129	169	217	274	339	414	499	-	-
45	122	161	208	263	327	401	486	-	-
50	-	153	199	252	315	388	471	-	-
55	-	-	189	241	303	374	455	-	-
60	-	-	-	230	289	359	439	-	-
65	-	-	-	218	276	344	422	-	-

Coefficient of performance (C.O.P.)

		/							
35	2.44	2.91	3.48	4.15	4.92	5.79	6.75	-	-
40	2.15	2.54	3.02	3.60	4.26	5.02	5.87	-	-
45	1.90	2.22	2.63	3.11	3.67	4.32	5.06	-	-
50	-	1.96	2.29	2.69	3.16	3.71	4.34	-	-
55	-	-	1.99	2.32	2.71	3.17	3.70	-	-
60	-	-	-	2.00	2.32	2.70	3.15	-	-
65	-	-	-	1.73	1.98	2.30	2.66	_	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	14 851	W
Power input	5 016	W
Current consumption	8.90	Α
Mass flow	334	kg/h
C.O.P.	2.96	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Pressure switch settings		
Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	83	dB(A)
With accoustic hood	77	dB(A)

Tolerance according EN12900



Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, EN 12900 rating conditions

Cond. temp. in		Т		-	ting temperature		1	T	1
°C (tc)	-25	-20	-10	-5	0	5	10	15	20
Cooling capacit	-	2 680	E 120	6.941	0.022	11 422	14 412	17.015	21 985
35	1 831		5 138	6 841	8 923	11 432	14 413	17 915	
40	1 566	2 362	4 658	6 252	8 207	10 569	13 386	16 704	20 572
45 50	1 314 1 077	2 058 1 768	4 192 3 741	5 678 5 118	7 505 6 818	9 721 8 888	12 373 11 376	15 508 14 328	19 174 17 792
55				4 574	6 147	8 072	10 395		16 427
55 60	-	-	3 306	4 047	5 493	7 272	9 431	13 165 12 018	15 079
65	-		-			6 489	8 485	1	13 749
65 75	-	-	-	-	4 855		6 647	10 889 8 687	13 749
10							0011	0.001	
ower input in \	N								
35	1 283	1 575	2 067	2 267	2 434	2 568	2 667	2 730	2 757
40	1 241	1 564	2 121	2 353	2 553	2 719	2 852	2 949	3 011
45	1 182	1 539	2 166	2 433	2 669	2 872	3 041	3 176	3 274
50	1 101	1 496	2 199	2 505	2 780	3 023	3 232	3 406	3 546
55	-	-	2 218	2 566	2 883	3 169	3 421	3 638	3 821
60	-	-	-	2 613	2 975	3 306	3 604	3 869	4 098
65	-	-	-	-	3 053	3 433	3 780	4 094	4 373
75	-	-	-	-	-	-	4 095	4 518	4 907
Current consum									
35	5.40	5.44	5.66	5.81	5.97	6.14	6.30	6.44	6.55
40	5.31	5.40	5.68	5.86	6.05	6.23	6.40	6.55	6.66
45	5.19	5.33	5.71	5.93	6.15	6.37	6.56	6.73	6.85
50	5.01	5.23	5.73	6.00	6.27	6.53	6.76	6.96	7.11
55	-	-	5.73	6.07	6.40	6.71	6.99	7.23	7.43
60	-	-	-	6.10	6.51	6.89	7.24	7.54	7.78
65	-	-	-	-	6.60	7.06	7.48	7.85	8.16
75	-	-	-	-	-	-	7.92	8.47	8.95
lass flow in kg	/h								
35	46	67	122	159	203	255	315	386	466
40	42	62	117	153	196	247	307	376	456
45	37	57	111	146	189	239	298	367	446
50	33	52	105	140	181	231	289	357	435
55	-	-	98	133	174	223	280	347	424
60	-	-	-	126	166	214	271	337	413
65	-	-	-	-	158	205	261	326	402
75	-	-	-	-	-	-	241	304	378
Coefficient of pe	erformance (C.C).P.)							1
	1.43	1.70	2.49	3.02	3.67	4.45	5.40	6.56	7.97
35	1.26	1.51	2.20	2.66	3.21	3.89	4.69	5.66	6.83
40			1.94	2.33	2.81	3.38	4.07	4.88	5.86
40 45	1.11	1.34			2.45	2.94	3.52	4.21	5.02
40 45 50	1.11 0.98	1.34 1.18	1.70	2.04			3.04	3.62	4.30
40 45 50 55	0.98	1.18 -	1.49	1.78	2.13	2.55		1	
40 45 50 55 60	0.98	1.18		1.78 1.55	1.85	2.20	2.62	3.11	3.68
40 45 50 55 60 65	0.98	1.18 -	1.49	1.78 1.55 -	1.85 1.59	2.20 1.89	2.62 2.24	3.11 2.66	3.14
40 45 50 55 60	0.98 - -	1.18 - -	1.49 -	1.78 1.55	1.85	2.20	2.62	3.11	
40 45 50 55 60 65 75	0.98 - - - -	1.18 - - - -	1.49 - -	1.78 1.55 -	1.85 1.59	2.20 1.89 -	2.62 2.24 1.62	3.11 2.66	3.14
40 45 50 55 60 65 75 Nominal perform	0.98 - - - - nance at to = 5 °	1.18 - - - - C, tc = 50 °C	1.49 - - -	1.78 1.55 -	1.85 1.59	2.20 1.89 - Pressure switch	2.62 2.24 1.62 settings	3.11 2.66 1.92	3.14 2.27
40 45 50 55 60 65 75 Iominal perforr Cooling capacity	0.98 - - - - nance at to = 5 °	1.18 - - - °C, tc = 50 °C 8 888	1.49 - - - W	1.78 1.55 -	1.85 1.59	2.20 1.89 - Pressure switch Maximum HP swit	2.62 2.24 1.62 settings ch setting	3.11 2.66 1.92 20.2	3.14 2.27 bar(g)
40 45 50 55 60 65 75	0.98 - - - - nance at to = 5 °	1.18 - - - - C, tc = 50 °C	1.49 - - -	1.78 1.55 -	1.85 1.59	2.20 1.89 - Pressure switch	2.62 2.24 1.62 settings ch setting h setting	3.11 2.66 1.92	3.14 2.27
40 45 50 55 60 65 75 Iominal perforr Cooling capacity Power input Current consump	0.98 - - - - nance at to = 5 °	1.18 - - - - - - - - - - - - - - - - - - -	1.49 - - - W W	1.78 1.55 -	1.85 1.59	2.20 1.89 - Pressure switch Maximum HP switc Minimum LP switc	2.62 2.24 1.62 settings ch setting h setting	3.11 2.66 1.92 20.2 0.1	3.14 2.27 bar(g) bar(g)
40 45 50 55 60 65 75 Nominal perforr Cooling capacity Power input	0.98 - - - - nance at to = 5 °	1.18 - - - - - - - - - - - - - - - - - - -	1.49 - - - - W W W A	1.78 1.55 -	1.85 1.59	2.20 1.89 - Pressure switch Maximum HP switc Minimum LP switc	2.62 2.24 1.62 settings ch setting th setting tting a	3.11 2.66 1.92 20.2 0.1	3.14 2.27 bar(g) bar(g)

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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R134a

Maneurop reciprocating compressor. MTZ064-4

Performance	e data at 5	0 Hz, ARI rat	ing conditio	ns					R134a			
Cond. temp. in	Evaporating temperature in °C (to)											
°C (tc)	-25	-20	-10	-5	0	5	10	15	20			
0												
Cooling capacity		0.000	5 550	7.005	0.010	10.000	15 100	10.007	00 504			
35	1 990	2 908	5 556	7 385	9 618	12 303	15 490	19 227	23 564			
40	1 712	2 577	5 063	6 783	8 889	11 428	14 451	18 007	22 143			
45	1 447	2 260	4 584	6 196	8 174	10 568	13 427	16 801	20 739			
50	-	1 956	4 119	5 622	7 473	9 722	12 418	15 612	19 351			
55	-	-	3 669	5 064	6 788	8 892	11 426	14 439	17 981			
60	-	-	-	4 521	6 119	8 079	10 451	13 286	16 631			
65	-	-	-	-	-	7 284	9 496	12 152	15 303			
75	-	-	-	-	-	-	7 648	9 956	12 726			
Power input in W	I											
35	1 283	1 575	2 067	2 267	2 434	2 568	2 667	2 730	2 757			
40	1 241	1 564	2 121	2 353	2 553	2 719	2 852	2 949	3 011			
45	1 182	1 539	2 166	2 433	2 669	2 872	3 041	3 176	3 274			
50	-	1 496	2 199	2 505	2 780	3 023	3 232	3 406	3 546			
55	-	-	2 218	2 566	2 883	3 169	3 421	3 638	3 821			
60	-	-	-	2 613	2 975	3 306	3 604	3 869	4 098			
65	-	-	-		-	3 433	3 780	4 094	4 373			
75	-	-	-	-	-	-	4 095	4 518	4 907			
Current consum 35	ption in A 5.40	5.44	5.66	5.81	5.97	6.14	6.30	6.44	6.55			
40	5.31	5.40	5.68	5.86	6.05	6.23	6.40	6.55	6.66			
45	5.19	5.33	5.71	5.93	6.15	6.37	6.56	6.73	6.85			
50	-	5.23	5.73	6.00	6.27	6.53	6.76	6.96	7.11			
55	-	-	5.73	6.07	6.40	6.71	6.99	7.23	7.43			
60	-	-	-	6.10	6.51	6.89	7.24	7.54	7.78			
65	-	-	-	-	-	7.06	7.48	7.85	8.16			
75	-	-	-	-	-	-	7.92	8.47	8.95			
Mass flow in kg/ł	n											
35	46	66	122	158	202	253	314	383	464			
40	40	62	116	152	195	246	305	374	454			
45	37	57	110	146	188	238	297	365	443			
50	-	52	104	139	181	230	288	355	433			
55	-	-	98	133	173	222	279	345	400			
60	-	-	-	125	165	213	269	335	411			
65	-	-	-	-	-	213	269	335	399			
75	-	-	-	-	-	-	240	303	376			
15	-	-		-			240	505	570			
Coefficient of per	•	1	I -		1 .		_	_				
35	1.55	1.85	2.69	3.26	3.95	4.79	5.81	7.04	8.55			
40	1.38	1.65	2.39	2.88	3.48	4.20	5.07	6.11	7.36			

	1.55	1.00	2.09	3.20	3.95	4.79	0.01	7.04	0.00
40	1.38	1.65	2.39	2.88	3.48	4.20	5.07	6.11	7.36
45	1.22	1.47	2.12	2.55	3.06	3.68	4.41	5.29	6.33
50	-	1.31	1.87	2.24	2.69	3.22	3.84	4.58	5.46
55	-	-	1.65	1.97	2.35	2.81	3.34	3.97	4.71
60	-	-	-	1.73	2.06	2.44	2.90	3.43	4.06
65	-	-	-	-	-	2.12	2.51	2.97	3.50
75	-	-	-	-	-	-	1.87	2.20	2.59

Nominal performance at to = 7.2 °C	c, tc = 54.4 °C	
Cooling capacity	10 058	W
Power input	3 264	W
Current consumption	6.81	А
Mass flow	247	kg/h
C.O.P.	3.08	

Maximum HP switch setting	20.2	bar(g)	
Minimum LP switch setting	0.1	bar(g)	
LP pump down setting	0.4	bar(g)	
-			
Sound power data			
Sound power level	0	dB(A)	
With accoustic hood	0	dB(A)	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

Pressure switch settings





Maneurop reciprocating compressor. MTZ064-4

Danfoss

R404A

Performance data at 50 Hz, EN 12900 rating conditions

Cond. temp. in		-		Evapora	ating temperatur	re in °C (to)			
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity 30	3 529	4 868	6 542	8 600	11 094	14 074	17 592	21 697	26 442
35		4 300		7 748		12 817	16 088		
	3 058		5 847		10 054			19 916	24 353
40	2 602	3 744	5 160	6 900	9 017	11 559	14 579	18 127	22 254
45	2 160	3 199	4 482	6 059	7 982	10 301	13 067	16 332	20 145
50	1 735	2 667	3 813	5 224	6 950	9 043	11 553	14 530	18 027
55	-	2 149	3 155	4 396	5 923	7 786	10 036	12 724	15 900
60	-	1 645	2 508	3 577	4 901	6 531	8 518	10 913	13 766
Power input in W	I		-						
30	2 404	2 781	3 131	3 449	3 733	3 981	4 189	4 355	4 476
35	2 399	2 819	3 211	3 573	3 903	4 196	4 451	4 665	4 835
40	2 372	2 836	3 274	3 683	4 060	4 403	4 708	4 973	5 195
45	2 320	2 832	3 318	3 777	4 204	4 599	4 956	5 275	5 552
50	2 240	2 802	3 340	3 851	4 332	4 780	5 194	5 569	5 904
55	-	2 744	3 336	3 902	4 440	4 946	5 418	5 853	6 248
60	-	2 656	3 305	3 930	4 526	5 093	5 626	6 123	6 581
30	5.75	6.10	6.50	6.90	7.30	7.65	7.93	8.11	8.17
35	5.80	6.17	6.59	7.04	7.48	7.88	8.22	8.48	8.61
40	5.81	6.21	6.67	7.16	7.65	8.12	8.53	8.86	9.08
45	5.78	6.22	6.73	7.27	7.82	8.36	8.85	9.26	9.57
50	5.71	6.20	6.76	7.36	7.99	8.60	9.17	9.68	10.09
55	-	6.14	6.76	7.43	8.13	8.83	9.50	10.10	10.62
60		6.04	6.73	7.48	8.26	9.05	9.82	10.54	11.17
00	_	0.04	0.70	7.40	0.20	5.00	5.62	10.04	11.17
lass flow in kg/	n		1	1	T		1		
30	111	150	196	251	316	392	479	580	695
35	103	142	188	242	306	380	467	566	679
40	96	134	179	232	295	368	453	551	663
45	87	124	169	221	283	355	438	535	645
50	78	115	158	210	270	341	423	518	626
55	-	104	147	197	257	326	407	500	607
60	-	93	135	184	242	310	390	481	586
Coefficient of pe	rformance (C.C).P.)							
30	1.47	1.75	2.09	2.49	2.97	3.54	4.20	4.98	5.91
35	1.27	1.53	1.82	2.17	2.58	3.05	3.61	4.27	5.04
40	1.10	1.32	1.52	1.87	2.00	2.63	3.10	3.65	4.28
45	0.93	1.13	1.35	1.60	1.90	2.24	2.64	3.10	3.63
50	0.93	0.95	1.35	1.36	1.60	1.89	2.04	2.61	3.05
55	-	0.95	0.95	1.13	1.33	1.57	1.85	2.01	2.55
55 60	-	0.78	0.95	0.91	1.08	1.28	1.65	1.78	2.55
									2.00
Nominal perform	ance at to = -1	,				Pressure switch	-		
Cooling capacity		7 982	W			Maximum HP swi	•	27.7	bar(g)
Power input	ion	4 204 7 82	W			Minimum LP swite		1	bar(g)
urrent consumn	100	/ 82	А	1		I I P DUMD down se	Dune	13	nar(a)

to: Evaporating	temperature	at	dew noint	

tc: Condensing temperature at dew point

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

7.82

283

1.90

А

kg/h

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)
Cound newer data		

Sound power data		
Sound power level	80	dB(A)
With accoustic hood	74	dB(A)

Tolerance according EN12900

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Current consumption

Mass flow

C.O.P.

Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, ARI rating conditions

Cond. temp. in				Evapora	ating temperature	in °C (to)			
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10
	in 10/								
ooling capacity 30	3 929	5 405	7 244	9 499	12 226	15 476	19 305	23 764	28 906
35	3 441	4 823	6 538	8 639	11 181	14 218	17 804	21 991	26 900
40	2 966	4 252	5 839	7 783	10 138	12 959	16 300	20 214	20 004
40	2 504	3 691	5 148	6 932	9 098	12 959	14 795	18 434	22 674
	2 055	-			8 064		13 294		22 074
50 55	- 2 055	3 141 2 604	4 467 3 797	6 089 5 256	7 040	10 447 9 204	13 294	16 659 14 898	18 538
60	-	2 004	3 141	4 440	6 035	7 984	10 345	13 173	16 525
00	-	2019	5 14 1	4 440	0 055	7 904	10 345	15 17 5	10 525
ower input in W	1	I	1	1	1	1	1	1	1
30	2 404	2 781	3 131	3 449	3 733	3 981	4 189	4 355	4 476
35	2 399	2 819	3 211	3 573	3 903	4 196	4 451	4 665	4 835
40	2 372	2 836	3 274	3 683	4 060	4 403	4 708	4 973	5 195
45	2 320	2 832	3 318	3 777	4 204	4 599	4 956	5 275	5 552
50	2 240	2 802	3 340	3 851	4 332	4 780	5 194	5 569	5 904
55	-	2 744	3 336	3 902	4 440	4 946	5 418	5 853	6 248
60	-	2 656	3 305	3 930	4 526	5 093	5 626	6 123	6 581
30	5.75	6.10	6.50	6.90	7.30	7.65	7.93	8.11	8.17
	5.80		6.59	7.04		7.88	8.22	1	
35 40	5.80	6.17 6.21	6.67	7.04	7.48 7.65	8.12	8.53	8.48 8.86	8.61 9.08
40	5.78	6.21	6.73	7.16	7.82	8.36	8.85	9.26	9.08
45 50	5.78	6.22	6.76	7.36	7.99	8.60	9.17	9.26	9.57
		6.14	6.76	7.43	8.13	8.83	9.50	10.10	10.62
55 60	-	6.04	6.73	7.43	8.26	9.05	9.82	10.10	10.02
00	-	0.04	0.75	7.40	0.20	9.05	9.02	10.54	11.17
Mass flow in kg/h	ı								
30	110	149	195	250	314	389	476	576	691
35	103	141	187	241	304	378	464	562	675
40	95	133	178	231	293	366	450	547	658
45	87	124	168	220	281	353	436	531	641
50	77	114	157	208	269	339	420	514	622
55	-	104	146	196	255	324	404	497	602
60	-	92	134	183	241	309	387	478	582
					1				
Coefficient of per		1	1	1		1		1	
30	1.63	1.94	2.31	2.75	3.27	3.89	4.61	5.46	6.46
35	1.43	1.71	2.04	2.42	2.87	3.39	4.00	4.71	5.55
40	1.25	1.50	1.78	2.11	2.50	2.94	3.46	4.06	4.77
45	1.08	1.30	1.55	1.84	2.16	2.54	2.98	3.49	4.08
50	0.92	1.12	1.34	1.58	1.86	2.19	2.56	2.99	3.49
55	-	0.95	1.14	1.35	1.59	1.86	2.18	2.55	2.97
60	-	0.78	0.95	1.13	1.33	1.57	1.84	2.15	2.51
Nominal perform	ance at to $= 1$	0 °C to = 45 °C				Pressure switch	sottings		
Cooling capacity	unce al 10 I	9 098	W		Г	Maximum HP swit	-	27.7	bar(g)
Bower input		4 204	W/	1		Minimum I P owite		<u> </u>	bar(g)

Power input	4 204	W
Current consumption	7.82	Α
Mass flow	281	kg/h
C.O.P.	2.16	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Maximum HP switch setting	27.7	bar(q)
Minimum LP switch setting	21.1	
•		bar(g)
LP pump down setting	1.3	bar(g)

Sound power data		
Sound power level	80	dB(A)
With accoustic hood	74	dB(A)

Tolerance according EN12900

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R404A

Maneurop reciprocating compressor. MTZ064-4

Danfoss

R407A

Performance data at 50 Hz, EN 12900 rating conditions

Jooling capacity in W Jooling capacity in W 30 2 593 3 844 5 409 7 337 9 674 12 469 15 769 19 622 22 35 2 214 3 397 4 673 6 691 8 898 11 542 14 471 18 332 22 40 1831 2 940 4 322 6 024 8 095 10 582 13 533 16 996 22 45 1 483 2 482 3 763 5 344 7 272 9 597 12 304 15 622 11 50 - 2 032 3 206 4 660 6 440 8 595 11 173 14 222 11 60 - - - 3 314 4 781 6 580 8 761 11 371 14 700 18 66 2 210 2 574 2 912 3 219 3 489 3 744 4 176 4 45 1638 2 147 2 642 3 119 3 572 3 994 4 386 4 983 5 594 5<	Cond. temp. in				Evapora	ting temperature	e in °C (to)			
30 2 593 3 844 5 409 7 337 9 674 12 460 15 769 19 922 22 35 2 214 3 397 4 873 6 691 8 888 11 542 14 671 18 332 22 40 1831 2 940 4 222 6 6024 8 695 11 652 14 671 18 332 62 45 1 483 2 442 3 763 5 344 7 722 9 597 12 364 15 63 1 50 - - 2 032 3 206 4 660 6 440 8 595 11 173 14 222 11 60 - - - 3 314 4 781 6 580 8 761 11 371 14 wer input in W - - 3 314 7 867 9 670 12 802 11 30 1 826 2 210 2 615 2 946 3 448 3 665 3 944 4 176 4 45 1 638 2 147 2 642 3 119	°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10
30 2 593 3 844 5 409 7 337 9 674 12 460 15 769 19 922 22 35 2 214 3 397 4 873 6 691 8 888 11 542 14 671 18 332 22 40 1831 2 940 4 222 6 6024 8 695 11 652 14 671 18 332 62 45 1 483 2 442 3 763 5 344 7 722 9 597 12 364 15 63 1 50 - - 2 032 3 206 4 660 6 440 8 595 11 173 14 222 11 60 - - - 3 314 4 781 6 580 8 761 11 371 14 wer input in W - - 3 314 7 867 9 670 12 802 11 30 1 826 2 210 2 615 2 946 3 448 3 665 3 944 4 176 4 45 1 638 2 147 2 642 3 119	ooling capacity	in W								
40 1831 2 940 4 322 6 024 8 095 10 582 13 533 16 996 22 45 1 4 63 2 442 3 763 5 344 7 272 9 597 12 364 15 623 15 50 - 2 032 3 206 4 660 6 440 8 595 11 173 14 222 11 55 - - 2 306 3 800 5 607 7 587 9 970 12 802 10 60 - - - 3 314 4 781 6 580 8 761 11 371 1 over input in W - - - 3 314 3 489 3 663 3 444 4 176 4 45 1638 2 147 2 642 3 169 3 784 4 382 4 782 5 55 - - 2 583 3 167 3 733 4 273 4 782 5 55 60 - - - 3 158 3 764 4 388 4 963 5 504 6 <			3 844	5 409	7 337	9 674	12 469	15 769	19 622	24 077
45 1 453 2 482 3 763 5 344 7 272 9 597 12 364 15 623 11 50 - 2 032 3 206 4 660 6 440 8 595 11 173 14 222 11 60 - - 2 660 3 980 5 607 7 587 9 970 12 802 16 60 - - - 3 314 4 781 6 580 8 761 11 1371 14 700 1 826 2 210 2 574 2 912 3 219 3 489 3 716 3 896 4 40 1 726 2 190 2 638 3 068 3 447 3 835 4 166 4 454 4 45 1 638 2 147 2 462 3 119 3 572 3 994 4 382 4 728 5 50 - - 2 683 3 167 3 733 4 273 4 782 5 255 5 60 - - - 3 158 3 784 </td <td>35</td> <td>2 214</td> <td>3 397</td> <td>4 873</td> <td>6 691</td> <td>8 898</td> <td>11 542</td> <td>14 671</td> <td>18 332</td> <td>22 573</td>	35	2 214	3 397	4 873	6 691	8 898	11 542	14 671	18 332	22 573
50 . 2 032 3 206 4 660 6 440 8 595 11 173 14 222 11 55 . . 2 660 3 980 5 607 7 587 9 970 12 802 11 60 . . 3 314 4 781 6 580 8 761 11 371 14 2000 1 826 2 210 2 574 2 912 3 219 3 489 3 716 3 896 4 30 1 826 2 210 2 615 2 996 3 248 3 666 3 944 4 176 4 40 1 726 2 190 2 638 3 066 3 467 3 835 4 166 4 454 4 45 1 638 2 147 2 642 3 157 3 733 4 278 5 55 5 60 - - 2 683 3 167 3 733 4 273 4 782 5 255 5 60 - - - 3 167 3 733 4 273 4 782 </td <td>40</td> <td>1 831</td> <td>2 940</td> <td>4 322</td> <td>6 024</td> <td>8 095</td> <td>10 582</td> <td>13 533</td> <td>16 996</td> <td>21 018</td>	40	1 831	2 940	4 322	6 024	8 095	10 582	13 533	16 996	21 018
55 . . 2 660 3 980 5 607 7 587 9 970 12 802 16 60 . . 3 314 4 781 6 580 8 761 11 371 17 20wer input in W . 3 314 4 781 6 580 8 761 11 371 17 30 1 826 2 210 2 574 2 912 3 19 3 489 3 716 3 896 4 40 1 726 2 190 2 683 3 066 3 447 3 835 4 166 4 454 4 45 1 638 2 147 2 642 3 119 3 572 3 835 4 166 4 454 4 45 1 638 2 147 2 682 3 167 3 733 4 273 4 782 5 255 5 60 - - 2 583 3 167 3 733 4 273 4 782 5 255 5 60 - - - 3 158 3 764 4 388 4 963	45	1 453	2 482	3 763	5 344	7 272	9 597	12 364	15 623	19 420
60 - - 3 314 4 781 6 580 8 761 11 371 14 Power input in W 30 1 826 2 210 2 574 2 912 3 219 3 489 3 716 3 896 4 435 1 787 2 210 2 615 2 996 3 348 3 666 3 944 4 176 4 40 1 726 2 190 2 638 3 066 3 447 3 835 4 146 4 454 45 1 638 2 147 2 642 3 119 3 572 3 994 4 382 4 728 5 50 - 2 079 2 625 3 154 3 661 4 141 4 588 4 963 5 504 6 60 - - - 3 158 3 784 4 388 4 963 5 504 6 cruent consumption in A - - - 3 158 3 784 4 388 4 963 5 604 6 20 5.15 5.533	50	-	2 032	3 206	4 660	6 440	8 595	11 173	14 222	17 789
Sover input in W Sover input in W 30 1826 2 210 2 574 2 912 3 219 3 489 3 716 3 896 4 40 1725 2 190 2 615 2 996 3 348 3 666 3 944 4 176 4 40 1725 2 190 2 625 3 154 3 661 4 141 4 588 4 996 5 50 - 2 079 2 625 3 154 3 661 4 141 4 588 4 996 5 55 - - 2 079 2 625 3 154 3 661 4 141 4 588 4 996 5 50 - - 2 583 3 167 3 733 4 273 4 782 5 255 5 60 - - - 3 158 5 73 5 73 5 74 6 88 7 73 7 72 7 75 7 75 30 5 15 5 53 5 99 6 50 7 7.04 7 57 8 88 9 63	55	-	-	2 660	3 980	5 607	7 587	9 970	12 802	16 132
30 1826 2 210 2 574 2 912 3 219 3 489 3 716 3 896 4 35 1787 2 210 2 615 2 996 3 348 3 666 3 944 4 176 4 40 1726 2 190 2 638 3 066 3 487 3 866 3 944 4 382 4 728 5 50 - 2 079 2 625 3 154 3 661 4 141 4 588 4 996 5 55 - - 2 583 3 167 3 733 4 273 4 782 5 255 5 60 - - - 3 158 3 784 4 388 4 986 5 50 51 5.49 5.88 6.28 6.68 7.03 7.32 7.52 7 35 5.18 5.54 5.97 6.44 6.92 7.39 7.81 8.17 2 45 5.55 5.99 6.56 7.23 7.92 8.61 <	60	-	-	-	3 314	4 781	6 580	8 761	11 371	14 458
30 1826 2 210 2 574 2 912 3 219 3 489 3 716 3 896 4 35 1787 2 210 2 615 2 996 3 348 3 666 3 944 4 176 4 40 1726 2 190 2 638 3 066 3 487 3 866 3 944 4 382 4 728 5 50 - 2 079 2 625 3 154 3 661 4 141 4 588 4 996 5 55 - - 2 633 3 167 3 733 4 273 4 782 5 255 5 60 - - - 3 158 3 784 4 388 4 983 5 504 6 consumption in A 30 5 15 5 49 5 88 6 .28 6 .68 7.03 7.32 7.52 7 35 5 18 5 5 5 5 97 6 .44 6 .92 7.39 7.81 8.17 2 6 5 5										
35 1 787 2 210 2 615 2 996 3 348 3 666 3 944 4 176 4 40 1 726 2 190 2 638 3 066 3 467 3 835 4 166 4 454 4 45 1 638 2 147 2 642 3 119 3 572 3 994 4 382 4 728 5 50 - 2 079 2 625 3 154 3 661 4 141 4 588 4 996 5 55 - - 2 583 3 167 3 733 4 273 4 782 5 255 5 60 - - - 3 168 3 784 4 388 4 963 5 504 6 consumption in A 30 5.15 5.49 5.88 6.28 6.68 7.03 7.32 7.52 7 30 5.16 5.52 5.93 6.56 7.23 7.92 8.61 9.26 5 -			1	1	1	1		1	1	r
40 1726 2190 2638 3066 3467 3835 4166 4454 4 45 1638 2147 2642 3119 3572 3994 4382 4728 5 50 - 2079 2625 3154 3661 4141 4588 4996 5 55 - - 2563 3167 3733 4273 4782 5255 5 60 - - - 3158 3784 4388 4963 5504 6 consumption in A 30 5.15 5.49 5.88 6.28 6.68 7.03 7.32 7.52 7 35 5.18 5.52 5.93 6.36 6.80 7.03 7.81 8.17 6 445 5.15 5.53 5.99 6.50 7.04 7.57 8.08 8.63 16 50 - - 5.94 6.56										4 022
45 1 638 2 147 2 642 3 119 3 572 3 994 4 382 4 4728 5 50 - 2 079 2 625 3 154 3 661 4 1414 4 588 4 996 5 55 - - 2 583 3 167 3 733 4 273 4 782 5 5255 5 60 - - - 3 158 3 784 4 388 4 963 5 50 consumption in A - - - 3 16.8 6.28 6.68 7.03 7.32 7.52 7 3 5 5 5 5 5 5 7 6.44 6.92 7.39 7.81 8.17 6 5 5 5 5 5 5 <										4 357
50 - 2 079 2 625 3 154 3 661 4 141 4 588 4 996 5 55 - - 2 583 3 167 3 733 4 273 4 782 5 255 5 60 - - - 3 158 3 784 4 388 4 963 5 504 6 Surrent consumption in A - - 3 158 3 784 4 388 4 963 5 504 6 30 5.15 5.49 5.88 6.28 6.68 7.03 7.32 7.52 7 35 5.18 5.52 5.93 6.36 6.80 7.20 7.56 7.83 6 40 5.15 5.53 5.97 6.44 6.92 7.39 7.81 8.17 7 45 5.15 5.53 5.99 6.56 7.23 7.92 8.61 9.26 6 50 - - 5.94 6.56 7.23 7.92 8.61 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4 693</td>										4 693
55 - - 2 583 3 167 3 733 4 273 4 782 5 255 5 60 - - - 3 158 3 784 4 388 4 963 5 504 6 current consumption in A 30 5.15 5.49 5.88 6.28 6.68 7.03 7.32 7.52 7 35 5.18 5.52 5.93 6.36 6.80 7.20 7.66 7.83 6 40 5.18 5.54 5.97 6.44 6.92 7.39 7.81 8.17 6 45 5.15 5.53 5.99 6.50 7.04 7.57 8.08 8.53 6 50 - 5.49 5.98 6.54 7.14 7.75 8.35 8.89 6 60 - - - 6.54 7.29 8.07 8.86 9.63 1 filestinkg/h 116 158 206										5 028
60 - - 3 158 3 784 4 388 4 963 5 504 6 Surrent consumption in A 30 5.15 5.49 5.88 6.28 6.68 7.03 7.32 7.52 7 35 5.18 5.52 5.93 6.36 6.80 7.20 7.56 7.83 6 40 5.18 5.54 5.97 6.44 6.92 7.39 7.81 8.17 6 45 5.15 5.53 5.99 6.50 7.04 7.57 8.08 8.53 6 55 - - 5.94 6.56 7.29 8.07 8.86 9.63 1 tass flow in kg/h - - 6.54 7.29 8.07 8.86 9.63 1 35 55 84 118 158 206 263 329 405 - 40 49 77 110 150 198 25		-								5 360
Surrent consumption in A 30 5.15 5.49 5.88 6.28 6.68 7.03 7.32 7.52 7.52 7.52 7.52 7.52 7.52 7.52 7.52 7.56 7.83 8.53 6.36 6.80 7.20 7.56 7.83 8.53 6.54 5.18 5.54 5.97 6.44 6.92 7.39 7.81 8.17 6.56 45 5.15 5.53 5.99 6.50 7.04 7.57 8.08 8.53 8.53 8.53 8.53 8.55 8.89 55 $ 6.54$ 7.14 7.75 8.35 8.89 55 60 $ 6.54$ 7.29 8.61 9.26 52 Mass flow in kg/h 30 62 90 124 165 214 270 337 413 49 40		-	-	2 583						5 687
30 5.15 5.49 5.88 6.28 6.68 7.03 7.32 7.52 17 35 5.18 5.52 5.93 6.36 6.80 7.20 7.56 7.83 6 40 5.18 5.54 5.97 6.44 6.92 7.39 7.81 8.17 6 45 5.15 5.53 5.99 6.50 7.04 7.57 8.08 8.53 6 50 - 5.94 6.56 7.23 7.92 8.61 9.26 9 60 - - 5.94 6.54 7.29 8.07 8.86 9.63 1 Ass flow in kg/h - - 6.54 7.29 8.07 8.86 9.63 1 33 55 84 118 158 206 263 329 405 40 49 77 110 150 198 254 320 395 4	60	-	-	-	3 158	3 784	4 388	4 963	5 504	6 007
35 5.18 5.52 5.93 6.36 6.80 7.20 7.56 7.83 6.8 40 5.18 5.54 5.97 6.44 6.92 7.39 7.81 8.17 8 45 5.15 5.53 5.99 6.50 7.04 7.57 8.08 8.53 8 50 - 5.49 5.98 6.54 7.14 7.75 8.35 8.89 6 55 - - 5.94 6.56 7.23 7.92 8.61 9.26 9 6.64 7.14 7.75 8.35 8.89 6 9	urrent consump	tion in A								
40 5.18 5.54 5.97 6.44 6.92 7.39 7.81 8.17 8.47 45 5.15 5.53 5.99 6.50 7.04 7.57 8.08 8.53 8.53 50 $ 5.49$ 5.98 6.54 7.14 7.75 8.35 8.89 55 5 $ 5.94$ 6.56 7.23 7.92 8.61 9.26 56 60 $ 6.54$ 7.29 8.07 8.86 9.63 1 Nass flow in kg/h 30 62 90 124 165 214 270 337 413 43 35 55 84 118 158 206 263 329 405 $ 40$ 49 77 110 150 198 254 320 395 $ 45$ 41 69 102 142 189 244 309 384 $ 50$ $ 110$ 154 207 269 341 $ 55$ $ 83$ 121 167 221 284 357 $ 60$ $ 110$ 154 207 269 341 $ 55$ $ 110$ 154 207 269 341 $ 55$ $ 110$ 2.52 <td>30</td> <td>5.15</td> <td>5.49</td> <td>5.88</td> <td>6.28</td> <td>6.68</td> <td>7.03</td> <td>7.32</td> <td>7.52</td> <td>7.59</td>	30	5.15	5.49	5.88	6.28	6.68	7.03	7.32	7.52	7.59
45 5.15 5.53 5.99 6.50 7.04 7.57 8.08 8.53 6.56 50 - 5.49 5.98 6.54 7.14 7.75 8.35 8.89 9.56 55 5.94 6.56 7.23 7.92 8.61 9.26 9.63 60 6.54 7.29 8.07 8.86 9.63 1 lass flow in kg/h 30 62 90 124 165 214 270 337 413 9.66 40 49 77 110 150 198 254 320 395 9.66 45 41 69 102 142 189 244 309 384 6.66 50 - 60 93 132 178 223 297 371 6.66 55 83 121 167 221 284 357 6.66 55 83 121 167 221 284 357 6.66 35 1.24 1.74 2.10 2.52 3.01 3.57 4.24 5.04 5.64 35 1.24 1.64 1.96 2.34 2.76 3.25 3.82 4.66 35 1.24 1.64 1.96 2.34 2.76 3.25 3.82 4.66 35 1.24 1.64 1.96 2.34 2.76 3.2	35	5.18	5.52	5.93	6.36	6.80	7.20	7.56	7.83	8.00
50 - 5,49 5,98 6,54 7.14 7.75 8,35 8,89 55 55 - - 5,94 6,56 7,23 7,92 8,61 9,26 55 60 - - - 6,54 7,29 8,07 8,86 9,63 1 1 1 1 1 1 1 2 1	40	5.18	5.54	5.97	6.44	6.92	7.39	7.81	8.17	8.43
55 5.94 6.56 7.23 7.92 8.61 9.26 9.63 1 60 6.54 7.29 8.07 8.86 9.63 1 30 62 90 124 165 214 270 337 413 43 35 55 84 118 158 206 263 329 405 40 49 77 110 150 198 254 320 395 45 41 69 102 142 189 244 309 384 46 50 - 60 93 132 178 233 297 371 473 55 833 121 167 221 284 357 426 60 $ 110$ 154 207 269 341 66 60 $ 110$ 154 207 269 341 66 35 1.24 1.74 2.10 2.52 3.01 3.57 4.24 5.04 56 35 1.24 1.54 1.86 2.23 2.66 3.15 3.72 4.39 65 40 1.06 1.34 1.64 1.96 2.34 2.76 3.25 3.82 44 40 1.06 1.34 1.42 1.71 2.04 2.40 2.82 3.30 35 45 0	45	5.15	5.53	5.99	6.50	7.04	7.57	8.08	8.53	8.89
60 - - 6.54 7.29 8.07 8.86 9.63 1 Aass flow in kg/h 30 62 90 124 165 214 270 337 413 43 35 55 84 118 158 206 263 329 405 40 40 49 77 110 150 198 254 320 395 45 45 41 69 102 142 189 244 309 384 4 50 - 60 93 132 178 233 297 371 4 60 - - 110 154 207 269 341 6 60 - - - 110 154 207 269 341 6 60 - - - 110 154 207 269 341 6 6	50	-	5.49	5.98	6.54	7.14	7.75	8.35	8.89	9.37
Asss flow in kg/h 30 62 90 124 165 214 270 337 413 43 35 55 84 118 158 206 263 329 405 40 40 49 77 110 150 198 254 320 395 45 45 41 69 102 142 189 244 309 384 44 50 - 60 93 132 178 233 297 371 46 55 - - 83 121 167 221 284 357 46 60 - - - 110 154 207 269 341 46 Sofficient of performance (C.O.P.) 30 1.42 1.74 2.10 2.52 3.01 3.57 4.24 5.04 55 35 1.24 1.54 1.86 2.23 2.66 3.15 3.72 4.39 55 40 1.06 <td>55</td> <td>-</td> <td>-</td> <td>5.94</td> <td>6.56</td> <td>7.23</td> <td>7.92</td> <td>8.61</td> <td>9.26</td> <td>9.86</td>	55	-	-	5.94	6.56	7.23	7.92	8.61	9.26	9.86
30 62 90 124 165 214 270 337 413 43 35 55 84 118 158 206 263 329 405 40 40 49 77 110 150 198 254 320 395 45 45 41 69 102 142 189 244 309 384 46 50 $ 60$ 93 132 178 233 297 371 46 55 $ 83$ 121 167 221 284 357 460 60 $ 110$ 154 207 269 341 460 Coefficient of performance (C.O.P.) 30 1.42 1.74 2.10 2.52 3.01 3.57 4.24 5.04 50 35 1.24 1.54 1.86 2.23 2.66 3.15 3.72 4.39 56 40 1.06 1.34 1.64 1.96 2.34 2.76 3.25 3.82 46 45 0.89 1.16 1.42 1.71 2.04 2.40 2.82 3.30 35 50 $ 0.98$ 1.22 1.48 1.76 2.08 2.44 2.85 35 55 $ 1.03$ 1.26 1.50 1.78 2.08 2.44 2.44	60	-	-	-	6.54	7.29	8.07	8.86	9.63	10.35
30 62 90 124 165 214 270 337 413 43 35 55 84 118 158 206 263 329 405 40 40 49 77 110 150 198 254 320 395 45 45 41 69 102 142 189 244 309 384 46 50 $ 60$ 93 132 178 233 297 371 46 55 $ 83$ 121 167 221 284 357 46 60 $ 110$ 154 207 269 341 46 60 $ 110$ 154 207 269 341 46 60 $ 110$ 154 207 269 341 46 60 $ 110$ 154 207 269 341 46 60 $ 110$ 154 207 269 341 46 56 1.24 1.54 1.86 2.23 2.66 3.15 3.72 4.39 56 40 1.06 1.34 1.64 1.96 2.34 2.76 3.25 3.82 46 45 0.89 1.16 1.42 1.71 2.04 2.40 2.82 3.30 56 <t< td=""><td>/ass flow in kɑ/h</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	/ass flow in kɑ/h									
35 55 84 118 158 206 263 329 405 40 40 49 77 110 150 198 254 320 395 45 45 41 69 102 142 189 244 309 384 46 50 - 60 93 132 178 233 297 371 46 55 - - 83 121 167 221 284 357 46 60 - - 110 154 207 269 341 46 60 - - 110 154 207 269 341 46 60 - - - 110 154 207 269 341 46 30 1.42 1.74 2.10 2.52 3.01 3.57 4.24 5.04 5 35 1.24 1.54 1.86 2.23 2.66 3.15 3.72 4.39 5 45 <td< td=""><td></td><td></td><td>90</td><td>124</td><td>165</td><td>214</td><td>270</td><td>337</td><td>413</td><td>500</td></td<>			90	124	165	214	270	337	413	500
45 41 69 102 142 189 244 309 384 4 50 - 60 93 132 178 233 297 371 4 55 - - 83 121 167 221 284 357 4 60 - - 110 154 207 269 341 4 coefficient of performance (C.O.P.) 30 1.42 1.74 2.10 2.52 3.01 3.57 4.24 5.04 5 35 1.24 1.54 1.86 2.23 2.66 3.15 3.72 4.39 5 40 1.06 1.34 1.64 1.96 2.34 2.76 3.25 3.82 4 45 0.89 1.16 1.42 1.71 2.04 2.40 2.82 3.30 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	35									492
50 - 60 93 132 178 233 297 371 4 55 - - 83 121 167 221 284 357 4 60 - - 110 154 207 269 341 4 Coefficient of performance (C.O.P.) 30 1.42 1.74 2.10 2.52 3.01 3.57 4.24 5.04 5 35 1.24 1.54 1.86 2.23 2.66 3.15 3.72 4.39 5 40 1.06 1.34 1.64 1.96 2.34 2.76 3.25 3.82 4 45 0.89 1.16 1.42 1.71 2.04 2.40 2.82 3.30 3 50 - 0.98 1.22 1.48 1.76 2.08 2.44 2.85 3 55 - - 1.03 1.26 1.50 1.78 2.08 2.44 2.44	40	49	77	110	150	198	254	320	395	481
55 - - 83 121 167 221 284 357 4 60 - - 110 154 207 269 341 4 Coefficient of performance (C.O.P.) 30 1.42 1.74 2.10 2.52 3.01 3.57 4.24 5.04 5 35 1.24 1.54 1.86 2.23 2.66 3.15 3.72 4.39 5 40 1.06 1.34 1.64 1.96 2.34 2.76 3.25 3.82 4 45 0.89 1.16 1.42 1.71 2.04 2.40 2.82 3.30 3 50 - 0.98 1.22 1.48 1.76 2.08 2.44 2.85 3 55 - - 1.03 1.26 1.50 1.78 2.08 2.44 2	45	41	69	102	142	189	244	309	384	470
60 - - 110 154 207 269 341 4 coefficient of performance (C.O.P.) 30 1.42 1.74 2.10 2.52 3.01 3.57 4.24 5.04 5 35 1.24 1.54 1.86 2.23 2.66 3.15 3.72 4.39 5 40 1.06 1.34 1.64 1.96 2.34 2.76 3.25 3.82 4 45 0.89 1.16 1.42 1.71 2.04 2.40 2.82 3.30 3 3 50 - 0.98 1.22 1.48 1.76 2.08 2.44 2.85 3 55 - - 1.03 1.26 1.50 1.78 2.08 2.44 2	50	-	60	93	132	178	233	297	371	456
Scoefficient of performance (C.O.P.) Scoefficient of performance (C.O.P.) 30 1.42 1.74 2.10 2.52 3.01 3.57 4.24 5.04 5<	55	-	-	83	121	167	221	284	357	441
35 1.24 1.54 1.86 2.23 2.66 3.15 3.72 4.39 5 40 1.06 1.34 1.64 1.96 2.34 2.76 3.25 3.82 4 45 0.89 1.16 1.42 1.71 2.04 2.40 2.82 3.30 3 50 - 0.98 1.22 1.48 1.76 2.08 2.44 2.85 3 55 - - 1.03 1.26 1.50 1.78 2.08 2.44 2	60	-	-	-	110	154	207	269	341	424
30 1.42 1.74 2.10 2.52 3.01 3.57 4.24 5.04 5 35 1.24 1.54 1.86 2.23 2.66 3.15 3.72 4.39 5 40 1.06 1.34 1.64 1.96 2.34 2.76 3.25 3.82 4 45 0.89 1.16 1.42 1.71 2.04 2.40 2.82 3.30 3 50 - 0.98 1.22 1.48 1.76 2.08 2.44 2.85 3 55 - - 1.03 1.26 1.50 1.78 2.08 2.44 2										
35 1.24 1.54 1.86 2.23 2.66 3.15 3.72 4.39 5 40 1.06 1.34 1.64 1.96 2.34 2.76 3.25 3.82 4 45 0.89 1.16 1.42 1.71 2.04 2.40 2.82 3.30 3 50 - 0.98 1.22 1.48 1.76 2.08 2.44 2.85 3 55 - - 1.03 1.26 1.50 1.78 2.08 2.44 2			1	2 10	2.52	3.01	3 57	4 24	5.04	5.99
40 1.06 1.34 1.64 1.96 2.34 2.76 3.25 3.82 4 45 0.89 1.16 1.42 1.71 2.04 2.40 2.82 3.30 3 50 - 0.98 1.22 1.48 1.76 2.08 2.44 2.85 3 55 - - 1.03 1.26 1.50 1.78 2.08 2.44 2.44										5.99
45 0.89 1.16 1.42 1.71 2.04 2.40 2.82 3.30 33 50 - 0.98 1.22 1.48 1.76 2.08 2.44 2.85 33 55 - - 1.03 1.26 1.50 1.78 2.08 2.44 2.85 33										4.48
50 - 0.98 1.22 1.48 1.76 2.08 2.44 2.85 3 55 - - 1.03 1.26 1.50 1.78 2.08 2.44 2.85 3										3.86
55 1.03 1.26 1.50 1.78 2.08 2.44 2										3.32
										2.84
	60	-	-	-	1.20	1.50	1.70	1.77	2.44	2.04

Nominal performance at to = -10							
Cooling capacity	7 272	W					
Power input	3 572	W					
Current consumption	7.04	A					
Mass flow	189	kg/h					
C.O.P.	2.04						

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	25.8	bar(g)
Minimum LP switch setting	0.9	bar(g)
LP pump down setting	1.2	bar(g)

Sound power data

Sound power level	79	dB(A)
With accoustic hood	73	dB(A)

Tolerance according EN12900



Maneurop reciprocating compressor. MTZ064-4

Danfoss

R407A

Performance data at 50 Hz, ARI rating conditions

ond. temp. in				Evapora	ating temperature	in °C (to)			
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10
ooling capacity	in W								
30	2 804	4 151	5 834	7 901	10 405	13 394	16 920	21 030	25 776
35	2 409	3 690	5 285	7 245	9 621	12 462	15 820	19 743	24 282
40	2 006	3 215	4 717	6 564	8 806	11 493	14 677	18 407	22 733
45	1 605	2 736	4 139	5 866	7 968	10 496	13 501	17 032	21 140
50	-	2 261	3 559	5 161	7 118	9 481	12 300	15 628	19 514
55	-	-	2 988	4 458	6 264	8 456	11 087	14 206	17 866
60	-	-	-	3 766	5 416	7 433	9 870	12 779	16 210
			•		•				
ower input in W	I					1	•	1	1
30	1 826	2 210	2 574	2 912	3 219	3 489	3 716	3 896	4 022
35	1 787	2 210	2 615	2 996	3 348	3 666	3 944	4 176	4 357
40	1 726	2 190	2 638	3 066	3 467	3 835	4 166	4 454	4 693
45	1 638	2 147	2 642	3 119	3 572	3 994	4 382	4 728	5 028
50	-	2 079	2 625	3 154	3 661	4 141	4 588	4 996	5 360
55	-	-	2 583	3 167	3 733	4 273	4 782	5 255	5 687
60	-	-	-	3 158	3 784	4 388	4 963	5 504	6 007
urrent consum	ption in A								
30	5.15	5.49	5.88	6.28	6.68	7.03	7.32	7.52	7.59
35	5.18	5.52	5.93	6.36	6.80	7.20	7.56	7.83	8.00
40	5.18	5.54	5.97	6.44	6.92	7.39	7.81	8.17	8.43
45	5.15	5.53	5.99	6.50	7.04	7.57	8.08	8.53	8.89
50	-	5.49	5.98	6.54	7.14	7.75	8.35	8.89	9.37
55	-	-	5.94	6.56	7.23	7.92	8.61	9.26	9.86
60	-	-	-	6.54	7.29	8.07	8.86	9.63	10.35
· · · · · · · · · · · · · · · · · · ·									
Aass flow in kg/l 30	61	90	124	164	212	269	335	411	497
35	55	83	124	157	205	269	335	402	497
40	48	76	117	157	197	253	318	393	409
40	40	68	101	130	188	243	310	382	467
50	-	60	92	131	177	232	295	369	453
55	_	-	82	121	166	220	282	355	438
60	-	-	-	109	154	206	268	339	430
00	_	_	_	100	104	200	200	000	722
coefficient of pe			T	Г	1	T	1	T	1
30	1.54	1.88	2.27	2.71	3.23	3.84	4.55	5.40	6.41
35	1.35	1.67	2.02	2.42	2.87	3.40	4.01	4.73	5.57
40	1.16	1.47	1.79	2.14	2.54	3.00	3.52	4.13	4.84
45	0.98	1.27	1.57	1.88	2.23	2.63	3.08	3.60	4.20
50	-	1.09	1.36	1.64	1.94	2.29	2.68	3.13	3.64
55	-	-	1.16	1.41	1.68	1.98	2.32	2.70	3.14
60	-	-	-	1.19	1.43	1.69	1.99	2.32	2.70
lominal perform	ance at to = -1	0 °C, tc = 45 °C				Pressure switch	settings		
Cooling capacity		7 968	W]	Maximum HP swit		25.8	bar(g)

Cooling capacity	7 968	W
Power input	3 572	W
Current consumption	7.04	Α
Mass flow	188	kg/h
C.O.P.	2.23	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Maximum HP switch setting	25.8	bar(g)
Minimum LP switch setting	0.9	bar(g)
LP pump down setting	1.2	bar(g)
-		
Sound power data		

Sound	power	level	

With accoustic hood	73	dB(A)
Sound power level	79	dB(A)

Tolerance according EN12900



Maneurop reciprocating compressor. MTZ064-4

Danfoss

R407F

Performance data at 50 Hz, EN 12900 rating conditions

Cond. temp. in				Evapora	ating temperature	e in °C (to)			•
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10
aalina aanaaliy i	- 14/								
Cooling capacity i 30	-	4 202	5 960	8 127	10 758	13 912	17 642	22 006	27 060
35	-	3 614	5 215	7 191	9 597	12 490	15 926	19 960	24 649
40	-	3 111	4 581	6 390	8 595	11 252	13 320	18 146	22 495
40	-	2 674	4 037	5 704	7 732	10 177	13 095	16 543	22 495
50	_	-	3 562	5 111	6 987	9 245	11 941	15 132	18 874
55	-	_	-	4 593	6 340	8 435	10 934	13 893	17 367
60	_		-			0 400	-	10 000	
00		_		_	_	_		_	_
Power input in W		•	•	-			•		
30	-	2 344	2 719	3 072	3 386	3 643	3 828	3 923	3 911
35	-	2 350	2 762	3 162	3 534	3 861	4 126	4 313	4 404
40	-	2 356	2 797	3 237	3 660	4 049	4 388	4 659	4 846
45	-	2 375	2 837	3 310	3 777	4 221	4 626	4 974	5 250
50	-	-	2 898	3 396	3 899	4 391	4 855	5 273	5 630
55	-	-	-	3 507	4 040	4 572	5 088	5 569	5 999
60	-	-	-	-	-	-	-	-	-
30	tion in A	5.50	5.91	6.35	6.78	7 15	7.43	7.59	7.59
	-					7.15		1	
35	-	5.60	6.03	6.49	6.96	7.39	7.75	8.00	8.11
40		5.64	6.09	6.59	7.10	7.60	8.04	8.39	8.61
45	-	- 5.64	6.12	6.66	7.23	7.81	8.34	8.79	9.14
50 55	-	-	6.14	6.73	7.38 7.56	8.03 8.30	8.66 9.04	9.23 9.73	9.70 10.34
60	-	-	-	6.84	7.50	-	9.04	9.75	10.34
00		_	_	_		_		_	
Mass flow in kg/h		•	•	-			•		
30	-	87	121	163	213	271	339	419	509
35	-	78	111	151	198	255	320	396	484
40	-	71	103	141	187	241	304	377	462
45	-	64	95	133	177	229	291	362	444
50	-	-	89	126	169	220	280	350	430
55	-	-	-	121	164	214	273	341	419
60	-	-	-	-	-	-	-	-	-
Coefficient of perf	ormance (C	O P)							
30	-	1.79	2.19	2.65	3.18	3.82	4.61	5.61	6.92
35	-	1.54	1.89	2.27	2.72	3.24	3.86	4.63	5.60
40	-	1.32	1.64	1.97	2.35	2.78	3.29	3.89	4.64
45	-	1.13	1.42	1.72	2.05	2.41	2.83	3.33	3.92
50	-	-	1.23	1.51	1.79	2.11	2.46	2.87	3.35
55	-	-	-	1.31	1.57	1.84	2.15	2.49	2.90
60	-	-	-	-	-	-	-	-	-
			•			•	•	•	
Nominal performa	nce at to = -		14/			Pressure switch		~	k (-)
Cooling capacity Power input		7 732 3 777	W W			Maximum HP swite Minimum LP swite		24 1	bar(g) bar(g)
Power input Current consumptic	n	7.23	A			LP pump down se		1.26	bar(g) bar(g)
Mass flow		177	ka/h						30.(9)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

177

2.05

kg/h

	_ p=p===		
	Sound power data		
ſ	Sound power level	79	dB(A)
	With accoustic hood	73	dB(A)

Tolerance according EN12900

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Mass flow

C.O.P.

Danfoss

R407F

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, ARI rating conditions

Cond. temp. in				Evapora	ting temperature i	n °C (to)			
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacit	ty in W								
30	-	4 504	6 381	8 692	11 496	14 852	18 817	23 452	28 814

35	-	3 891	5 609	7 726	10 300	13 391	17 057	21 358	26 352
40	-	3 368	4 953	6 901	9 271	12 123	15 515	19 508	24 160
45	-	2 914	4 392	6 197	8 389	11 028	14 173	17 884	22 220
50	-	-	3 905	5 594	7 636	10 088	13 013	16 469	20 516
55	-	-	-	5 074	6 992	9 287	12 019	15 248	19 035
60	-	-	-	-	-	-	-	-	-

Power input in W

30	-	2 344	2 719	3 072	3 386	3 643	3 828	3 923	3 911
35	-	2 350	2 762	3 162	3 534	3 861	4 126	4 313	4 404
40	-	2 356	2 797	3 237	3 660	4 049	4 388	4 659	4 846
45	-	2 375	2 837	3 310	3 777	4 221	4 626	4 974	5 250
50	-	-	2 898	3 396	3 899	4 391	4 855	5 273	5 630
55	-	-	-	3 507	4 040	4 572	5 088	5 569	5 999
60	-	-	-	-	-	-	-	-	-

Current consumption in A

30	-	5.50	5.91	6.35	6.78	7.15	7.43	7.59	7.59
35	-	5.60	6.03	6.49	6.96	7.39	7.75	8.00	8.11
40	-	5.64	6.09	6.59	7.10	7.60	8.04	8.39	8.61
45	-	5.64	6.12	6.66	7.23	7.81	8.34	8.79	9.14
50	-	-	6.14	6.73	7.38	8.03	8.66	9.23	9.70
55	-	-	-	6.84	7.56	8.30	9.04	9.73	10.34
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

30	-	86	121	162	211	270	337	416	506
35	-	78	111	150	197	253	318	394	480
40	-	70	102	140	186	239	302	375	459
45	-	64	95	132	176	228	289	360	441
50	-	-	89	125	168	219	279	348	427
55	-	-	-	120	163	213	271	339	417
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

		,							
30	-	1.92	2.35	2.83	3.40	4.08	4.92	5.98	7.37
35	-	1.66	2.03	2.44	2.91	3.47	4.13	4.95	5.98
40	-	1.43	1.77	2.13	2.53	2.99	3.54	4.19	4.99
45	-	1.23	1.55	1.87	2.22	2.61	3.06	3.60	4.23
50	-	-	1.35	1.65	1.96	2.30	2.68	3.12	3.64
55	-	-	-	1.45	1.73	2.03	2.36	2.74	3.17
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	8 389	W
Power input	3 777	W
Current consumption	7.23	А
Mass flow	176	kg/h
C.O.P.	2.22	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Pressure switch settings			
Maximum HP switch setting	24	bar(g)	
Minimum LP switch setting	1	bar(g)	
LP pump down setting	1.26	bar(g)	

Sound power data

Sound power level	79	dB(A)
With accoustic hood	73	dB(A)

Tolerance according EN12900



Maneurop reciprocating compressor. MTZ064-4

Performance data at 50 Hz, EN 12900 rating conditions

Cond. temp. in		Т		-	ting temperature		1	T	1
°C (tc)	-25	-20	-10	-5	0	5	10	15	20
Cooling capacit	-	2 680	E 120	6.941	0.022	11 422	14 412	17.015	21 985
35	1 831		5 138	6 841	8 923	11 432	14 413	17 915	
40	1 566	2 362	4 658	6 252	8 207	10 569	13 386	16 704	20 572
45 50	1 314 1 077	2 058 1 768	4 192 3 741	5 678 5 118	7 505 6 818	9 721 8 888	12 373 11 376	15 508 14 328	19 174 17 792
55				4 574	6 147	8 072	10 395		16 427
55 60	-	-	3 306	4 047	5 493	7 272	9 431	13 165 12 018	15 079
65	-		-			6 489	8 485	1	13 749
65 75	-	-	-	-	4 855		6 647	10 889 8 687	13 749
10							0011	0.001	
ower input in \	N								
35	1 283	1 575	2 067	2 267	2 434	2 568	2 667	2 730	2 757
40	1 241	1 564	2 121	2 353	2 553	2 719	2 852	2 949	3 011
45	1 182	1 539	2 166	2 433	2 669	2 872	3 041	3 176	3 274
50	1 101	1 496	2 199	2 505	2 780	3 023	3 232	3 406	3 546
55	-	-	2 218	2 566	2 883	3 169	3 421	3 638	3 821
60	-	-	-	2 613	2 975	3 306	3 604	3 869	4 098
65	-	-	-	-	3 053	3 433	3 780	4 094	4 373
75	-	-	-	-	-	-	4 095	4 518	4 907
Current consum									
35	5.40	5.44	5.66	5.81	5.97	6.14	6.30	6.44	6.55
40	5.31	5.40	5.68	5.86	6.05	6.23	6.40	6.55	6.66
45	5.19	5.33	5.71	5.93	6.15	6.37	6.56	6.73	6.85
50	5.01	5.23	5.73	6.00	6.27	6.53	6.76	6.96	7.11
55	-	-	5.73	6.07	6.40	6.71	6.99	7.23	7.43
60	-	-	-	6.10	6.51	6.89	7.24	7.54	7.78
65	-	-	-	-	6.60	7.06	7.48	7.85	8.16
75	-	-	-	-	-	-	7.92	8.47	8.95
lass flow in kg	/h								
35	46	67	122	159	203	255	315	386	466
40	42	62	117	153	196	247	307	376	456
45	37	57	111	146	189	239	298	367	446
50	33	52	105	140	181	231	289	357	435
55	-	-	98	133	174	223	280	347	424
60	-	-	-	126	166	214	271	337	413
65	-	-	-	-	158	205	261	326	402
75	-	-	-	-	-	-	241	304	378
Coefficient of pe	erformance (C.C).P.)							1
	1.43	1.70	2.49	3.02	3.67	4.45	5.40	6.56	7.97
35	1.26	1.51	2.20	2.66	3.21	3.89	4.69	5.66	6.83
40			1.94	2.33	2.81	3.38	4.07	4.88	5.86
40 45	1.11	1.34			2.45	2.94	3.52	4.21	5.02
40 45 50	1.11 0.98	1.34 1.18	1.70	2.04			3.04	3.62	4.30
40 45 50 55	0.98	1.18 -	1.49	1.78	2.13	2.55		1	
40 45 50 55 60	0.98	1.18		1.78 1.55	1.85	2.20	2.62	3.11	3.68
40 45 50 55 60 65	0.98	1.18 -	1.49	1.78 1.55 -	1.85 1.59	2.20 1.89	2.62 2.24	3.11 2.66	3.14
40 45 50 55 60	0.98 - -	1.18 - -	1.49 -	1.78 1.55	1.85	2.20	2.62	3.11	
40 45 50 55 60 65 75	0.98 - - - -	1.18 - - - -	1.49 - -	1.78 1.55 -	1.85 1.59	2.20 1.89 -	2.62 2.24 1.62	3.11 2.66	3.14
40 45 50 55 60 65 75 Nominal perform	0.98 - - - - nance at to = 5 °	1.18 - - - - C, tc = 50 °C	1.49 - - -	1.78 1.55 -	1.85 1.59	2.20 1.89 - Pressure switch	2.62 2.24 1.62 settings	3.11 2.66 1.92	3.14 2.27
40 45 50 55 60 65 75 Iominal perforr Cooling capacity	0.98 - - - - nance at to = 5 °	1.18 - - - °C, tc = 50 °C 8 888	1.49 - - - W	1.78 1.55 -	1.85 1.59	2.20 1.89 - Pressure switch Maximum HP swit	2.62 2.24 1.62 settings ch setting	3.11 2.66 1.92 20.2	3.14 2.27 bar(g)
40 45 50 55 60 65 75	0.98 - - - - nance at to = 5 °	1.18 - - - - C, tc = 50 °C	1.49 - - -	1.78 1.55 -	1.85 1.59	2.20 1.89 - Pressure switch	2.62 2.24 1.62 settings ch setting h setting	3.11 2.66 1.92	3.14 2.27
40 45 50 55 60 65 75 Iominal perforr Cooling capacity Power input Current consump	0.98 - - - - nance at to = 5 °	1.18 - - - - - - - - - - - - - - - - - - -	1.49 - - - W W	1.78 1.55 -	1.85 1.59	2.20 1.89 - Pressure switch Maximum HP switc Minimum LP switc	2.62 2.24 1.62 settings ch setting h setting	3.11 2.66 1.92 20.2 0.1	3.14 2.27 bar(g) bar(g)
40 45 50 55 60 65 75 Nominal perforr Cooling capacity Power input	0.98 - - - - nance at to = 5 °	1.18 - - - - - - - - - - - - - - - - - - -	1.49 - - - - W W W A	1.78 1.55 -	1.85 1.59	2.20 1.89 - Pressure switch Maximum HP switc Minimum LP switc	2.62 2.24 1.62 settings ch setting th setting tting a	3.11 2.66 1.92 20.2 0.1	3.14 2.27 bar(g) bar(g)

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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R134a

Maneurop reciprocating compressor. MTZ064-4

Performance	e data at 5	0 Hz, ARI rat	ing conditio	ns					R134a
Cond. temp. in				Evapora	ating temperature i	n °C (to)			
°C (tc)	-25	-20	-10	-5	0	5	10	15	20
0									
Cooling capacity		0.000	5 550	7.005	0.010	10.000	15 100	10.007	00 504
35	1 990	2 908	5 556	7 385	9 618	12 303	15 490	19 227	23 564
40	1 712	2 577	5 063	6 783	8 889	11 428	14 451	18 007	22 143
45	1 447	2 260	4 584	6 196	8 174	10 568	13 427	16 801	20 739
50	-	1 956	4 119	5 622	7 473	9 722	12 418	15 612	19 351
55	-	-	3 669	5 064	6 788	8 892	11 426	14 439	17 981
60	-	-	-	4 521	6 119	8 079	10 451	13 286	16 631
65	-	-	-	-	-	7 284	9 496	12 152	15 303
75	-	-	-	-	-	-	7 648	9 956	12 726
Power input in W	I								
35	1 283	1 575	2 067	2 267	2 434	2 568	2 667	2 730	2 757
40	1 241	1 564	2 121	2 353	2 553	2 719	2 852	2 949	3 011
45	1 182	1 539	2 166	2 433	2 669	2 872	3 041	3 176	3 274
50	-	1 496	2 199	2 505	2 780	3 023	3 232	3 406	3 546
55	-	-	2 218	2 566	2 883	3 169	3 421	3 638	3 821
60	-	-	-	2 613	2 975	3 306	3 604	3 869	4 098
65	-	-	-		-	3 433	3 780	4 094	4 373
75	-	-	-	-	-	-	4 095	4 518	4 907
Current consum 35	ption in A 5.40	5.44	5.66	5.81	5.97	6.14	6.30	6.44	6.55
40	5.31	5.40	5.68	5.86	6.05	6.23	6.40	6.55	6.66
45	5.19	5.33	5.71	5.93	6.15	6.37	6.56	6.73	6.85
50	-	5.23	5.73	6.00	6.27	6.53	6.76	6.96	7.11
55	-	-	5.73	6.07	6.40	6.71	6.99	7.23	7.43
60	-	-	-	6.10	6.51	6.89	7.24	7.54	7.78
65	-	-	-	-	-	7.06	7.48	7.85	8.16
75	-	-	-	-	-	-	7.92	8.47	8.95
Mass flow in kg/ł	n								
35	46	66	122	158	202	253	314	383	464
40	40	62	116	152	195	246	305	374	454
45	37	57	110	146	188	238	297	365	443
50	-	52	104	139	181	230	288	355	433
55	-	-	98	133	173	222	279	345	400
60	-	-	-	125	165	213	269	335	411
65	-	-	-	-	-	213	269	335	399
75	-	-	-	-	-	-	240	303	376
15	-	-		-			240	505	570
Coefficient of per		,	I -		1 .		_	_	
35	1.55	1.85	2.69	3.26	3.95	4.79	5.81	7.04	8.55
40	1.38	1.65	2.39	2.88	3.48	4.20	5.07	6.11	7.36

	1.55	1.00	2.09	3.20	3.95	4.79	0.01	7.04	0.00
40	1.38	1.65	2.39	2.88	3.48	4.20	5.07	6.11	7.36
45	1.22	1.47	2.12	2.55	3.06	3.68	4.41	5.29	6.33
50	-	1.31	1.87	2.24	2.69	3.22	3.84	4.58	5.46
55	-	-	1.65	1.97	2.35	2.81	3.34	3.97	4.71
60	-	-	-	1.73	2.06	2.44	2.90	3.43	4.06
65	-	-	-	-	-	2.12	2.51	2.97	3.50
75	-	-	-	-	-	-	1.87	2.20	2.59

Nominal performance at to = 7.2 °C, tc = 54.4 °C								
Cooling capacity	10 058	W						
Power input	3 264	W						
Current consumption	6.81	А						
Mass flow	247	kg/h						
C.O.P.	3.08							

Maximum HP switch setting	20.2	bar(g)	
Minimum LP switch setting	0.1	bar(g)	
LP pump down setting	0.4	bar(g)	
-			
Sound power data			
Sound power level	0	dB(A)	
With accoustic hood	0	dB(A)	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

Pressure switch settings





Maneurop reciprocating compressor. MTZ064-4

Danfoss

Performance	e data at 50	0 Hz, EN 129	00 rating co	nditions				r	R4070
Cond. temp. in				Evapora	ating temperatur	e in °C (to)			
°C (tc)	-15	-10	-5	0	5	10	15		
cooling capacity			1	1			1	,	
35	6 299	8 351	10 830	13 785	17 266	21 320	26 000	-	-
40	5 680	7 599	9 921	12 695	15 971	19 799	24 227	-	-
45	5 079	6 858	9 016	11 603	14 668	18 261	22 431	-	-
50	-	6 136	8 123	10 516	13 364	16 715	20 621	-	-
55	-	-	7 252	9 443	12 066	15 170	18 803	-	-
60	-	-	-	8 393	10 784	13 632	16 988	-	-
65	-	-	-	7 372	9 525	12 111	15 181	-	-
ower input in W	ı								
35	2 778	3 083	3 341	3 563	3 759	3 940	4 116	-	-
40	2 866	3 231	3 541	3 806	4 036	4 242	4 435	-	-
45	2 913	3 352	3 726	4 046	4 323	4 566	4 787	-	-
50	-	3 436	3 887	4 275	4 610	4 904	5 166	-	-
55	-	-	4 017	4 485	4 891	5 247	5 562	-	-
60	-	-	-	4 668	5 157	5 588	5 969	-	-
65	-	-	-	4 816	5 401	5 918	6 377	-	-
			1					L	
urrent consum	ption in A		1	1			1		
35	6.07	6.40	6.74	7.05	7.32	7.53	7.66	-	-
40	6.19	6.56	6.94	7.30	7.62	7.89	8.07	-	-
45	6.29	6.72	7.16	7.58	7.97	8.30	8.55	-	-
50	-	6.86	7.38	7.88	8.34	8.75	9.09	-	-
55	-	-	7.57	8.16	8.72	9.23	9.67	-	-
60	-	-	-	8.42	9.09	9.71	10.26	-	-
65	-	-	-	8.63	9.42	10.17	10.85	-	-
ass flow in kg/ł	h								
35	137	178	227	285	351	428	515	- [-
40	130	170	219	275	341	416	502	-	-
45	122	162	209	265	329	404	489	-	-
50	_	154	200	254	317	390	474	_	-
55	-	-	190	243	304	376	458	-	-
60	-	-	-	231	291	361	442	-	-
65	-	-	-	219	278	346	424	-	-
		•	1				1		
pefficient of per		1		r	1	I	1		
35	2.27	2.71	3.24	3.87	4.59	5.41	6.32	-	-
40	1.98	2.35	2.80	3.34	3.96	4.67	5.46	-	-
45	1.74	2.05	2.42	2.87	3.39	4.00	4.69	-	-
50	-	1.79	2.09	2.46	2.90	3.41	3.99	-	-
55	-	-	1.81	2.11	2.47	2.89	3.38	-	-
60	-	-	-	1.80	2.09	2.44	2.85	-	-
65	-	-	-	1.53	1.76	2.05	2.38	-	-
ominal perform	ance at to = 5	°C tc = 50 °C				Pressure switch	settings		
poling capacity	ance at 10 - 5	13 364	4 W		/ -	Maximum HP swi	-	29.4	bar(g)
ower input		4 610			/	Minimum LP swite	•	1.4	bar(g)
urrent consumpt	tion	8.34	А			LP pump down se	etting	1.7	bar(g)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

317

2.90

kg/h

Tolerance according EN12900

Sound power data

Sound power level

With accoustic hood

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CERTIFIED

ASERCOM



Mass flow

C.O.P.

83

77

dB(A)

dB(A)

Maneurop reciprocating compressor. MTZ064-4

Danfoss

R407C

Performance data at 50 Hz, ARI rating conditions

Cond. temp. in				Evapora	ting temperature in	n °C (to)				
°C (tc)	-15	-10 -5 0 5 10 15								
• • •										
Cooling capacit	y in W		1	1				1		
Cooling capacity 35	y in W 6 780	8 978	11 629	14 785	18 498	22 819	27 798	-	-	

40	0 147	0212	10708	13 085	17 190	21 292	20 025	-	-
45	5 532	7 457	9 790	12 581	15 883	19 748	24 228	-	-
50	-	6 722	8 884	11 482	14 568	18 196	22 416	-	-
55	-	-	7 999	10 396	13 261	16 644	20 598	-	-
60	-	-	-	9 335	11 970	15 103	18 786	-	-
65	-	-	-	8 307	10 707	13 584	16 990	-	-

Power input in W

35	2 778	3 083	3 341	3 563	3 759	3 940	4 116	-	-
40	2 866	3 231	3 541	3 806	4 036	4 242	4 435	-	-
45	2 913	3 352	3 726	4 046	4 323	4 566	4 787	-	-
50	-	3 436	3 887	4 275	4 610	4 904	5 166	-	-
55	-	-	4 017	4 485	4 891	5 247	5 562	-	-
60	-	-	-	4 668	5 157	5 588	5 969	-	-
65	-	-	-	4 816	5 401	5 918	6 377	-	-

Current consumption in A

35	6.07	6.40	6.74	7.05	7.32	7.53	7.66	-	-
40	6.19	6.56	6.94	7.30	7.62	7.89	8.07	-	-
45	6.29	6.72	7.16	7.58	7.97	8.30	8.55	-	-
50	-	6.86	7.38	7.88	8.34	8.75	9.09	-	-
55	-	-	7.57	8.16	8.72	9.23	9.67	-	-
60	-	-	-	8.42	9.09	9.71	10.26	-	-
65	-	-	-	8 63	9 42	10 17	10.85	-	-

Mass flow in kg/h

35	136	177	226	283	349	425	512	-	-
40	129	169	217	274	339	414	499	-	-
45	122	161	208	263	327	401	486	-	-
50	-	153	199	252	315	388	471	-	-
55	-	-	189	241	303	374	455	-	-
60	-	-	-	230	289	359	439	-	-
65	-	-	-	218	276	344	422	-	-

Coefficient of performance (C.O.P.)

		/							
35	2.44	2.91	3.48	4.15	4.92	5.79	6.75	-	-
40	2.15	2.54	3.02	3.60	4.26	5.02	5.87	-	-
45	1.90	2.22	2.63	3.11	3.67	4.32	5.06	-	-
50	-	1.96	2.29	2.69	3.16	3.71	4.34	-	-
55	-	-	1.99	2.32	2.71	3.17	3.70	-	-
60	-	-	-	2.00	2.32	2.70	3.15	-	-
65	-	-	-	1.73	1.98	2.30	2.66	_	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	14 851	W
Power input	5 016	W
Current consumption	8.90	Α
Mass flow	334	kg/h
C.O.P.	2.96	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Pressure switch settings		
Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	83	dB(A)
With accoustic hood	77	dB(A)

Tolerance according EN12900



Danfoss

Maneurop reciprocating compressor. MTZ064-4

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

R448A

Cond. temp. in	Evaporating temperature in °C (to)								
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacit	y in W								
10	-	6 021	7 977	10 356	13 200	-	-	-	-

10	-	6 021	7 977	10 356	13 200	-	-	-	-
20	-	5 065	6 832	8 979	11 547	14 576	18 113	-	-
30	-	4 146	5 716	7 625	9 910	12 610	15 766	19 426	23 644
40	-	-	4 644	6 307	8 303	10 667	13 437	16 656	20 371
50	-	-	-	5 039	6 739	8 761	11 141	13 914	17 120
60	-	-	-	-	5 233	6 908	8 891	11 214	13 907

Power input in W

10	-	1 970	2 129	2 230	2 262	-	-	-	-
20	-	2 151	2 393	2 587	2 724	2 793	2 784	-	-
30	-	2 269	2 594	2 882	3 125	3 312	3 433	3 477	3 435
40	-	-	2 735	3 120	3 470	3 776	4 027	4 213	4 325
50	-	-	-	3 302	3 761	4 187	4 570	4 899	5 166
60	-	-	-	-	4 001	4 548	5 064	5 538	5 961

Current consumption in A

10	-	7.93	8.09	8.13	8.02	-	-	-	-
20	-	6.39	6.68	6.90	7.01	7.00	6.82	-	-
30	-	5.70	6.06	6.41	6.71	6.93	7.04	7.00	6.79
40	-	-	6.00	6.44	6.88	7.28	7.63	7.89	8.02
50	-	-	-	6.72	7.25	7.80	8.35	8.85	9.28
60	-	-	-	-	7.60	8.25	8.94	9.64	10.32

Mass flow in kg/h

10	-	99	131	170	218	-	-	-	-
20	-	89	121	159	205	261	327	-	-
30	-	79	109	146	191	245	309	386	476
40	-	-	97	133	176	228	290	364	452
50	-	-	-	118	159	209	268	340	425
60	-	-	-	-	141	188	245	313	395

Coefficient of performance (C.O.P.)

10	-	3.06	3.75	4.64	5.84	-	-	-	-
20	-	2.35	2.86	3.47	4.24	5.22	6.51	-	-
30	-	1.83	2.20	2.65	3.17	3.81	4.59	5.59	6.88
40	-	-	1.70	2.02	2.39	2.83	3.34	3.95	4.71
50	-	-	-	1.53	1.79	2.09	2.44	2.84	3.31
60	-	-	-	-	1.31	1.52	1.76	2.02	2.33

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	7 515	W
Power input	3 622	W
Current consumption	7.05	А
Mass flow	167	kg/h
C.O.P.	2.07	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 $^\circ\text{C}$, Subcooling = 0 K

Pressure switch settings		
Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	80	dB(A)
With accoustic hood	74	dB(A)

Tolerance according EN12900



Maneurop reciprocating compressor. MTZ064-4

Danfoss

R448A

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

Cond. temp. in		Evaporating temperature in °C (to)								
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10	

Cooling capacity in W

10	4 468	6 051	8 021	10 420	13 285	-	-	-	-
20	3 610	5 033	6 803	8 960	11 544	14 593	18 146	-	-
30	2 807	4 062	5 624	7 533	9 827	12 546	15 729	19 415	23 644
40	2 075	3 154	4 500	6 152	8 149	10 530	13 335	16 602	20 371
50	-	2 324	3 447	4 834	6 526	8 561	10 979	13 819	17 120
60	-	-	2 477	3 592	4 971	6 652	8 676	11 081	13 907

Power input in W

10	1 762	1 970	2 129	2 230	2 262	-	-	-	-
20	1 873	2 151	2 393	2 587	2 724	2 793	2 784	-	-
30	1 919	2 269	2 594	2 882	3 125	3 312	3 433	3 477	3 435
40	1 904	2 327	2 735	3 120	3 470	3 776	4 027	4 213	4 325
50	-	2 327	2 821	3 302	3 761	4 187	4 570	4 899	5 166
60	-	-	2 853	3 433	4 001	4 548	5 064	5 538	5 961

Current consumption in A

10	7.68	7.93	8.09	8.13	8.02	-	-	-	-
20	6.07	6.39	6.68	6.90	7.01	7.00	6.82	-	-
30	5.34	5.70	6.06	6.41	6.71	6.93	7.04	7.00	6.79
40	5.26	5.59	6.00	6.44	6.88	7.28	7.63	7.89	8.02
50	-	5.84	6.24	6.72	7.25	7.80	8.35	8.85	9.28
60	-	-	6.54	7.01	7.60	8.25	8.94	9.64	10.32

Mass flow in kg/h

10	86	115	149	191	239	-	-	-	-
20	75	104	138	178	225	280	344	-	-
30	64	92	125	164	210	264	325	396	476
40	53	79	111	148	193	245	305	373	452
50	-	66	96	132	174	224	282	349	425
60	-	-	81	115	155	202	258	322	395

Coefficient of performance (C.O.P.)

10	2.54	3.07	3.77	4.67	5.87	-	-	-	-
20	1.93	2.34	2.84	3.46	4.24	5.23	6.52	-	-
30	1.46	1.79	2.17	2.61	3.14	3.79	4.58	5.58	6.88
40	1.09	1.36	1.65	1.97	2.35	2.79	3.31	3.94	4.71
50	-	1.00	1.22	1.46	1.74	2.04	2.40	2.82	3.31
60	-	-	0.87	1.05	1.24	1.46	1.71	2.00	2.33

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	7 330	W
Power input	3 622	W
Current consumption	7.05	А
Mass flow	184	kg/h
C.O.P.	2.02	

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	1	bar(g)
LP pump down setting	1.3	bar(g)

So	und	power	data

eeuna pener aata		
Sound power level	80	dB(A)
With accoustic hood	74	dB(A)

Tolerance according EN12900



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Maneurop reciprocating compressor. MTZ064-4

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

Cond. temp. in Evaporating temperature in °C (to)									
°C (tc)	-30	-30 -25 -20 -15 -10 -5 0 5 10							
Cooling capacity	/ in W								

10	-	6 032	7 989	10 368	13 212	-	-	-	-
20	-	5 076	6 844	8 992	11 560	14 588	18 122	-	-
30	-	4 157	5 728	7 638	9 923	12 622	15 776	19 432	23 644
40	-	-	4 656	6 321	8 316	10 679	13 448	16 662	20 371
50	-	-	-	5 053	6 753	8 774	11 151	13 920	17 120
60	-	-	-	-	5 246	6 921	8 902	11 220	13 907

Power input in W

10	-	1 970	2 129	2 230	2 262	-	-	-	-
20	-	2 151	2 393	2 587	2 724	2 793	2 784	-	-
30	-	2 269	2 594	2 882	3 125	3 312	3 433	3 477	3 435
40	-	-	2 735	3 120	3 470	3 776	4 027	4 213	4 325
50	-	-	-	3 302	3 761	4 187	4 570	4 899	5 166
60	-	-	-	-	4 001	4 548	5 064	5 538	5 961

Current consumption in A

10	-	7.93	8.09	8.13	8.02	-	-	-	-
20	-	6.39	6.68	6.90	7.01	7.00	6.82	-	-
30	-	5.70	6.06	6.41	6.71	6.93	7.04	7.00	6.79
40	-	-	6.00	6.44	6.88	7.28	7.63	7.89	8.02
50	-	-	-	6.72	7.25	7.80	8.35	8.85	9.28
60	-	-	-	-	7.60	8.25	8.94	9.64	10.32

Mass flow in kg/h

10	-	100	134	174	223	-	-	-	-
20	-	91	123	162	210	266	333	-	-
30	-	80	112	149	195	250	315	393	485
40	-	-	99	136	179	232	296	371	460
50	-	-	-	121	163	213	274	347	433
60	-	-	-	-	145	193	251	321	404

Coefficient of performance (C.O.P.)

10	-	3.06	3.75	4.65	5.84	-	-	-	-
20	-	2.36	2.86	3.48	4.24	5.22	6.51	-	-
30	-	1.83	2.21	2.65	3.18	3.81	4.60	5.59	6.88
40	-	-	1.70	2.03	2.40	2.83	3.34	3.95	4.71
50	-	-	-	1.53	1.80	2.10	2.44	2.84	3.31
60	-	-	-	-	1.31	1.52	1.76	2.03	2.33

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	7 528	W
Power input	3 622	W
Current consumption	7.05	А
Mass flow	171	kg/h
C.O.P.	2.08	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 $^\circ\text{C}$, Subcooling = 0 K

Pressure switch settings		
Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	80	dB(A)
With accoustic hood	74	dB(A)

Tolerance according EN12900



Maneurop reciprocating compressor. MTZ064-4

Danfoss

R449A

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

Cond. temp. in				Evapora	ting temperature in	n °C (to)			
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	4 468	6 051	8 021	10 420	13 285	-	-	-	-
20	3 610	5 033	6 803	8 960	11 544	14 593	18 146	-	-
30	2 807	4 062	5 624	7 533	9 827	12 546	15 729	19 415	23 644
40	2 075	3 154	4 500	6 152	8 149	10 530	13 335	16 602	20 371
50	-	2 324	3 447	4 834	6 526	8 561	10 979	13 819	17 120
60	-	-	2 477	3 592	4 971	6 652	8 676	11 081	13 907

Power input in W

10	1 762	1 970	2 129	2 230	2 262	-	-	-	-
20	1 873	2 151	2 393	2 587	2 724	2 793	2 784	-	-
30	1 919	2 269	2 594	2 882	3 125	3 312	3 433	3 477	3 435
40	1 904	2 327	2 735	3 120	3 470	3 776	4 027	4 213	4 325
50	-	2 327	2 821	3 302	3 761	4 187	4 570	4 899	5 166
60	-	-	2 853	3 433	4 001	4 548	5 064	5 538	5 961

Current consumption in A

10	7.68	7.93	8.09	8.13	8.02	-	-	-	-
20	6.07	6.39	6.68	6.90	7.01	7.00	6.82	-	-
30	5.34	5.70	6.06	6.41	6.71	6.93	7.04	7.00	6.79
40	5.26	5.59	6.00	6.44	6.88	7.28	7.63	7.89	8.02
50	-	5.84	6.24	6.72	7.25	7.80	8.35	8.85	9.28
60	-	-	6.54	7.01	7.60	8.25	8.94	9.64	10.32

Mass flow in kg/h

10	86	116	153	195	245	-	-	-	-
20	76	105	140	182	230	286	351	-	-
30	65	93	127	167	214	269	332	403	485
40	54	81	113	152	197	250	311	381	460
50	-	68	98	135	178	229	288	356	433
60	-	-	83	118	159	207	264	330	404

Coefficient of performance (C.O.P.)

10	2.54	3.07	3.77	4.67	5.87	-	-	-	-
20	1.93	2.34	2.84	3.46	4.24	5.23	6.52	-	-
30	1.46	1.79	2.17	2.61	3.14	3.79	4.58	5.58	6.88
40	1.09	1.36	1.65	1.97	2.35	2.79	3.31	3.94	4.71
50	-	1.00	1.22	1.46	1.74	2.04	2.40	2.82	3.31
60	-	-	0.87	1.05	1.24	1.46	1.71	2.00	2.33

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	7 330	W
Power input	3 622	W
Current consumption	7.05	А
Mass flow	188	kg/h
C.O.P.	2.02	

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	1	bar(g)
LP pump down setting	1.3	bar(g)

So	und	power	data

Sound power level	80	dB(A)
With accoustic hood	74	dB(A)

Tolerance according EN12900



Datasheet, p	erformand	ce data				Maneurop re	ciprocating	compressor	. MTZ064-4
Performance	e data at 5	0 Hz, EN 1290	0 rating co	nditions, Su	ction temp	. = 20 °C			R452A
Cond. temp. in				Evapora	ting temperatur	e in °C (to)			
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10
		20	20	10	10			Ū	10
200ling capacity 10	-	7 078	9 072	11 483	14 346	-	-	-	-
20	-	6 052	7 886	10 085	12 686	15 724	19 242	-	-
30	-	5 034	6 687	8 656	10 973	13 673	16 793	20 374	24 467
40	-	4 027	5 480	7 197	9 211	11 553	14 257	17 357	20 894
50	_	4 021	4 268	5 715	7 407	9 372	11 640	14 241	17 205
60	-	-	- 4 200	4 215	5 567	7 139	8 955	14 24 1	13 408
00	-	- 1	-	4215	5 507	1 139	8 900	11056	13 408
ower input in W		<u>т г</u>			1		1	1	
10	-	2 640	2 896	3 136	3 369	-	-	-	-
20	-	2 621	2 898	3 148	3 379	3 597	3 811	-	-
30	-	2 652	2 983	3 276	3 538	3 777	3 999	4 211	4 422
40	-	2 695	3 114	3 483	3 810	4 102	4 366	4 609	4 839
50	-	-	3 254	3 733	4 158	4 536	4 876	5 183	5 465
60	-	-	-	3 988	4 544	5 043	5 491	5 895	6 264
urrent consump	otion in A								
10	-	8.70	9.14	9.54	9.88	-	-	-	-
20	-	6.80	7.23	7.61	7.95	8.26	8.56	-	-
30	-	6.00	6.45	6.85	7.21	7.56	7.89	8.22	8.57
40	-	5.92	6.41	6.85	7.28	7.68	8.08	8.49	8.91
50	-	-	6.69	7.22	7.73	8.23	8.73	9.24	9.77
60	-	-	-	7.55	8.18	8.80	9.42	10.07	10.74
lass flow in kg/h	1								
10	-	143	185	236	296	_	-	-	-
20	-	134	175	225	285	355	439	-	-
30	-	122	163	212	271	340	422	519	633
40	-	109	149	197	253	321	400	495	606
50	-	-	132	178	233	298	375	467	575
60	-	-	-	157	210	272	346	434	538
				·		·			
oefficient of per			2 1 2	2.66	4.26		I	I	
10	-	2.68	3.13	3.66	4.26	- 4.27	- 5.05	-	-
20	-	2.31	2.72	3.20	3.75	4.37	5.05	-	-
30	-	1.90	2.24	2.64	3.10	3.62	4.20	4.84	5.53
40	-	1.49	1.76	2.07	2.42	2.82	3.27	3.77	4.32
50 60	-	-	1.31	1.53 1.06	1.78 1.23	2.07	2.39 1.63	2.75 1.87	3.15 2.14
1		1							
lominal perform	ance at to = -1	-				Pressure switch			
Cooling capacity		8 314	W			Maximum HP swit		27.7	bar(g)
ower input Current consumpti	ion	3 977 7.48	W A			Minimum LP swite	•	1	bar(g)
lass flow		7.48 244	A kg/h			LP pump down se	aung	1.3	bar(g)
C.O.P.		2.09	Ng/11			Sound power dat	a		
		2.00				Sound power leve		80	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 $^{\circ}\text{C}$, Subcooling = 0 K

Sou	nd	power	data
•			

eeuna pener aata		
Sound power level	80	dB(A)
With accoustic hood	74	dB(A)

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Tolerance according EN12900



Maneurop reciprocating compressor. MTZ064-4

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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)	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	5 288	6 891	8 883	11 304	14 195	-	-	-	-
20	4 319	5 793	7 610	9 809	12 430	15 511	19 093	-	-
30	3 391	4 716	6 336	8 291	10 621	13 363	16 559	20 247	24 467
40	2 515	3 668	5 069	6 758	8 774	11 156	13 944	17 177	20 894
50	1 696	2 656	3 817	5 218	6 898	8 898	11 256	14 012	17 205
60	-	1 688	2 587	3 678	5 001	6 597	8 503	10 761	13 408

Power input in W

10	2 361	2 640	2 896	3 136	3 369	-	-	-	-
20	2 310	2 621	2 898	3 148	3 379	3 597	3 811	-	-
30	2 276	2 652	2 983	3 276	3 538	3 777	3 999	4 211	4 422
40	2 220	2 695	3 114	3 483	3 810	4 102	4 366	4 609	4 839
50	2 108	2 715	3 254	3 733	4 158	4 536	4 876	5 183	5 465
60	-	2 673	3 367	3 988	4 544	5 043	5 491	5 895	6 264

Current consumption in A

10	8.18	8.70	9.14	9.54	9.88	-	-	-	-
20	6.30	6.80	7.23	7.61	7.95	8.26	8.56	-	-
30	5.50	6.00	6.45	6.85	7.21	7.56	7.89	8.22	8.57
40	5.38	5.92	6.41	6.85	7.28	7.68	8.08	8.49	8.91
50	5.53	6.13	6.69	7.22	7.73	8.23	8.73	9.24	9.77
60	-	6.25	6.91	7.55	8.18	8.80	9.42	10.07	10.74

Mass flow in kg/h

10	129	167	212	264	326	-	-	-	-
20	118	156	201	253	313	383	463	-	-
30	105	142	187	238	298	366	444	533	633
40	89	127	170	221	279	346	422	509	606
50	72	109	151	200	256	321	396	480	575
60	-	88	129	176	231	293	365	446	538

Coefficient of performance (C.O.P.)

10	2.24	2.61	3.07	3.60	4.21	-	-	-	-
20	1.87	2.21	2.63	3.12	3.68	4.31	5.01	-	-
30	1.49	1.78	2.12	2.53	3.00	3.54	4.14	4.81	5.53
40	1.13	1.36	1.63	1.94	2.30	2.72	3.19	3.73	4.32
50	0.80	0.98	1.17	1.40	1.66	1.96	2.31	2.70	3.15
60	-	0.63	0.77	0.92	1.10	1.31	1.55	1.83	2.14

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	7 839	W
Power input	3 977	W
Current consumption	7.48	A
Mass flow	268	kg/h
C.O.P.	1.97	

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	1	bar(g)
LP pump down setting	1.3	bar(g)

So	und	power	data

eeuna pener aata		
Sound power level	80	dB(A)
With accoustic hood	74	dB(A)

Tolerance according EN12900



Maneurop reciprocating compressor. MTZ064-4

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+ CO U- EN 42000 --1 - 4 . . . ! .

Performanc	e data at 60	0 Hz, EN 1290	0 rating co	nditions				ſ	R4070
Cond. temp. in				Evapora	ting temperatur	re in °C (to)			
°C (tc)	-15	-10	-5	0	5	10	15		
a aling acrossity	/ in 14/								
35	7 260	9 715	12 611	16 000	19 940	24 487	29 695	-	-
40	6 687	9 044	11 807	15 031	18 773	23 086	28 027	-	-
45	6 081	8 326	10 943	13 989	17 518	21 585	26 246	-	-
50	-	7 576	10 035	12 889	16 192	19 999	24 366	-	-
55	-	-	9 097	11 745	14 809	18 343	22 401	-	-
60	-	-	-	10 572	13 383	16 629	20 366	-	-
65	-	-	-	9 382	11 926	14 872	18 272	-	-
ower input in V	v								
35	3 396	3 737	4 031	4 294	4 543	4 792	5 057	-	-
40	3 541	3 951	4 303	4 614	4 899	5 173	5 453	-	-
45	3 644	4 136	4 560	4 931	5 266	5 579	5 887	-	-
50	-	4 283	4 791	5 237	5 634	6 000	6 349	-	-
55	-	-	4 987	5 520	5 994	6 424	6 828	-	-
60	-	-	-	5 771	6 335	6 844	7 316	-	-
65	-	-	-	5 982	6 648	7 249	7 802	-	-
urrent consum		<u>г </u>		Г	1		1		
35	5.85	6.15	6.41	6.63	6.83	7.03	7.24	-	-
40	6.02	6.43	6.78	7.09	7.37	7.64	7.92	-	-
45	6.13	6.65	7.11	7.51	7.89	8.24	8.58	-	-
50	-	6.82	7.39	7.90	8.37	8.81	9.24	-	-
55	-	-	7.62	8.25	8.82	9.36	9.88	-	-
60	-	-	-	8.55	9.24	9.88	10.49	-	-
65	-	-	-	8.80	9.61	10.37	11.09	-	-
/lass flow in kg/l	h								
35	157	207	265	330	406	491	588	-	_
40	152	203	260	326	400	485	581	_	-
45	146	197	254	319	393	477	572	_	-
43 50	-	197	234	313	384	467	560		
55	-	-	238	301	373	454	545	-	-
60	-	-	-	291	361	440	529	-	-
65	-	-	-	279	347	424	511	-	-
oefficient of pe	rformance (C.C	D.P.)							
35	2.14	2.60	3.13	3.73	4.39	5.11	5.87	-	-
40	1.89	2.29	2.74	3.26	3.83	4.46	5.14	-	-
45	1.67	2.01	2.40	2.84	3.33	3.87	4.46	-	-
50	-	1.77	2.09	2.46	2.87	3.33	3.84	-	-
55	-	-	1.82	2.13	2.47	2.86	3.28	-	-
60	-	-	-	1.83	2.11	2.43	2.78	-	-
65	-	-	-	1.57	1.79	2.05	2.34	-	-
lominal perform	anco at to - E (°C to = 50 °C				Pressure switch	eattinge		
Cooling capacity	ance at to = 5	16 192	W			Maximum HP swit	-	29.4	bar(g)
Power input		5 634	W			Minimum LP switc	0	1.4	bar(g)
Current consump	tion	8.37	A	1		LP pump down se	-	1.7	bar(g)
lass flow		384	kg/h						
C.O.P. 2.87						Sound power dat			
						Sound power leve		86	dB(A)

tc: Condensing temperature at dew point

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

Sound power level	86
With accoustic hood	80

Tolerance according EN12900

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Maneurop reciprocating compressor. MTZ064-4

Danfoss

R407C

Performance data at 60 Hz, ARI rating conditions

Cond. temp. in		Evaporating temperature in °C (to)										
°C (tc)	-15	-10	-5	0	5	10	15					
Cooling capacit	y in W											
35	7 814	10 444	13 541	17 161	21 364	26 207	31 749	-	-			
40	7 237	9 774	12 744	16 203	20 212	24 827	30 108	-	-			
45	6 623	9 054	11 883	15 168	18 969	23 343	28 349	-	-			
50	-	8 299	10 974	14 072	17 651	21 770	26 487	-	-			
55	-	-	10 033	12 930	16 275	20 125	24 540	-	-			
60	-	-	-	11 759	14 855	18 423	22 522	-	-			
65	-	-	-	10 573	13 407	16 679	20 449	-	-			

Power input in W

35	3 396	3 737	4 031	4 294	4 543	4 792	5 057	-	-
40	3 541	3 951	4 303	4 614	4 899	5 173	5 453	-	-
45	3 644	4 136	4 560	4 931	5 266	5 579	5 887	-	-
50	-	4 283	4 791	5 237	5 634	6 000	6 349	-	-
55	-	-	4 987	5 520	5 994	6 424	6 828	-	-
60	-	-	-	5 771	6 335	6 844	7 316	-	-
65	-	-	-	5 982	6 648	7 249	7 802	-	-

Current consumption in A

35	5.85	6.15	6.41	6.63	6.83	7.03	7.24	-	-
40	6.02	6.43	6.78	7.09	7.37	7.64	7.92	-	-
45	6.13	6.65	7.11	7.51	7.89	8.24	8.58	-	-
50	-	6.82	7.39	7.90	8.37	8.81	9.24	-	-
55	-	-	7.62	8.25	8.82	9.36	9.88	-	-
60	-	-	-	8.55	9.24	9.88	10.49	-	-
65	-	-	-	8 80	9.61	10.37	11 09	-	-

Mass flow in kg/h

35	157	206	263	329	403	488	584	-	-
40	152	202	259	324	398	482	578	-	-
45	146	196	253	317	391	474	568	-	-
50	-	189	245	309	382	464	556	-	-
55	-	-	237	300	371	452	542	-	-
60	-	-	-	289	359	437	526	-	-
65	-	-	-	277	345	422	508	-	-

Coefficient of performance (C.O.P.)

		/							
35	2.30	2.80	3.36	4.00	4.70	5.47	6.28	-	-
40	2.04	2.47	2.96	3.51	4.13	4.80	5.52	-	-
45	1.82	2.19	2.61	3.08	3.60	4.18	4.82	-	-
50	-	1.94	2.29	2.69	3.13	3.63	4.17	-	-
55	-	-	2.01	2.34	2.72	3.13	3.59	-	-
60	-	-	-	2.04	2.34	2.69	3.08	-	-
65	-	-	-	1.77	2.02	2.30	2.62	_	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	18 085	W
Power input	6 141	W
Current consumption	9.01	A
Mass flow	407	kg/h
C.O.P.	2.94	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Pressure switch settings		
Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	86	dB(A)
With accoustic hood	80	dB(A)

Tolerance according EN12900



Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, EN 12900 rating conditions

°C (tc)				1	ting temperatur			· ·- ·	
ooling canacity	-25	-20	-10	-5	0	5	10	15	20
		0.040	0.400	0.000	10 700	10 710	17.000		
35	2 197	3 216	6 166	8 209	10 708	13 718	17 296	21 499	26 382
40	1 879	2 834	5 590	7 503	9 848	12 683	16 063	20 045	24 686
45	1 577	2 469	5 031	6 813	9 006	11 665	14 848	18 610	23 009
50	1 292	2 121	4 489	6 142	8 182	10 666	13 651	17 194	21 350
55	-	-	3 967	5 489	7 377	9 686	12 474	15 798	19 712
60	-	-	-	4 856	6 591	8 727	11 318	14 422	18 095
65	-	-	-	-	5 827	7 787	10 182	13 067	16 499
75	-	-	-	-	-	-	7 976	10 424	13 374
ower input in W		4 000	0.404	0.704	0.001	0.004	0.000	0.070	0.000
35	1 540	1 890	2 481	2 721	2 921	3 081	3 200	3 276	3 309
40	1 490	1 877	2 545	2 823	3 063	3 263	3 422	3 539	3 613
45	1 418	1 846	2 599	2 920	3 203	3 447	3 650	3 811	3 929
50	1 321	1 795	2 639	3 006	3 336	3 627	3 878	4 088	4 255
55	-	-	2 662	3 080	3 460	3 802	4 105	4 366	4 585
60	-	-	-	3 135	3 571	3 967	4 325	4 642	4 918
65	-	-	-	-	3 664	4 119	4 536	4 913	5 248
75	-	-	-	-	-	-	4 915	5 421	5 888
urrent consump		5.00	5.00	0.00	0.00	0.40	0.57	0.70	0.00
35	5.63	5.68	5.90	6.06	6.23	6.40	6.57	6.72	6.83
40	5.54	5.63	5.93	6.11	6.31	6.50	6.68	6.83	6.94
45	5.41	5.56	5.96	6.19	6.42	6.64	6.84	7.01	7.14
50	5.23	5.45	5.98	6.26	6.54	6.81	7.05	7.26	7.41
55	-	-	5.97	6.33	6.67	7.00	7.29	7.54	7.74
60	-	-	-	6.36	6.79	7.18	7.54	7.86	8.11
65	-	-	-	-	6.88	7.36	7.80	8.18	8.51
75	-	-	-	-	-	-	8.25	8.83	9.33
lass flow in kg/h		00	4 4 7	101	244	200	270	402	500
35	56	80	147	191	244	306	378	463	560
40	50	75	140	183	235	297	368	452	547
45	45	69	133	176	227	287	358	440	535
50	39	63	126	167	218	277	347	429	522
55	-	-	118	159	209	267	336	417	509
60	-	-	-	151	199	257	325	404	496
65	-	-	-	-	190	246	313	392	482
75	-	-	-	-	-	-	289	365	453
oefficient of per	•	1	0.40	0.00	0.07	4.45	5.40	0.50	7.07
35	1.43	1.70	2.49	3.02	3.67	4.45	5.40	6.56	7.97
40	1.26	1.51	2.20	2.66	3.21	3.89	4.69	5.66	6.83
45	1.11	1.34	1.94	2.33	2.81	3.38	4.07	4.88	5.86
	0.98	1.18	1.70	2.04	2.45	2.94	3.52	4.21	5.02
50	-	-	1.49	1.78	2.13	2.55	3.04	3.62	4.30
50 55	-	-	-	1.55	1.85	2.20	2.62	3.11	3.68
50 55 60		-	-	-	1.59	1.89	2.24	2.66	3.14
50 55 60 65	-			-	-	-	1.62	1.92	2.27
50 55 60	-	-	-						
50 55 60 65 75	-		-			_			
50 55 60 65 75 Iominal perform	-	°C, tc = 50 °C		·		Pressure switch	-		b = -()
50 55 60 65 75 Iominal perform Cooling capacity	-	° C, tc = 50 °C 10 666	6 W	· 		Maximum HP swit	ch setting	20.2	bar(g)
50 55 60 65 75 Cooling capacity Yower input	- ance at to = 5 °	° C, tc = 50 °C 10 666 3 627	s W W			Maximum HP swit	ch setting h setting	0.1	bar(g)
50 55 60 65 75 cominal perform cooling capacity	- ance at to = 5 °	° C, tc = 50 °C 10 666 3 627 6.81	6 W W A]		Maximum HP swit	ch setting h setting		(0)
50 55 60 65 75 Cominal perform Cooling capacity Invoice input Courrent consumpt Courrent consumpt Consum	- ance at to = 5 °	° C, tc = 50 °C 10 666 3 627	s W W			Maximum HP swit	ch setting h setting tting	0.1	bar(g)

tc: Condensing temperature at dew point

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

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Danfoss

R134a

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, ARI rating conditions

Performance) Hz, ARI rat	ing conditio	115					R134
Cond. temp. in				Evapora	ting temperature	in °C (to)			
°C (tc)	-25	-20	-10	-5	0	5	10	15	20
35	2 388	3 489	6 667	8 862	11 541	14 764	18 588	23 072	28 276
40	2 054	3 093	6 075	8 140	10 666	13 714	17 341	21 608	26 572
45	1 736	2 712	5 501 4 943	7 435 6 746	9 808	12 681	16 112	20 161	24 887
50	-	2 347	-		8 968	11 666	14 902	18 734	23 222
55	-	-	4 403	6 076 5 425	8 146	10 671 9 695	13 711 12 542	17 327 15 943	21 578 19 958
60 65	-	-	-	5 425	7 343	1			
65 75	-	-	-	-	-	8 741	11 395	14 582 11 947	18 364
75	-	-	-	-	-	-	9 178	11 947	15 271
ower input in W	1								
35	1 540	1 890	2 481	2 721	2 921	3 081	3 200	3 276	3 309
40	1 490	1 877	2 545	2 823	3 063	3 263	3 422	3 539	3 613
45	1 418	1 846	2 599	2 920	3 203	3 447	3 650	3 811	3 929
50	-	1 795	2 639	3 006	3 336	3 627	3 878	4 088	4 255
55	-	-	2 662	3 080	3 460	3 802	4 105	4 366	4 585
60	-	-	-	3 135	3 571	3 967	4 325	4 642	4 918
65	-	-	-	-	-	4 119	4 536	4 913	5 248
75	-	-	-	-	-	-	4 915	5 421	5 888
urrent consum	otion in A								
35	5.63	5.68	5.90	6.06	6.23	6.40	6.57	6.72	6.83
40	5.54	5.63	5.93	6.11	6.31	6.50	6.68	6.83	6.94
45	5.41	5.56	5.96	6.19	6.42	6.64	6.84	7.01	7.14
50	-	5.45	5.98	6.26	6.54	6.81	7.05	7.26	7.41
55	-	-	5.97	6.33	6.67	7.00	7.29	7.54	7.74
60	-	-	-	6.36	6.79	7.18	7.54	7.86	8.11
65	-	-	-	-	-	7.36	7.80	8.18	8.51
75	-	-	-	-	-	-	8.25	8.83	9.33
lass flow in kg/ł									
35	55	80	146	190	242	304	376	460	556
40	50	74	139	182	234	295	366	449	544
45	45	68	132	175	225	286	356	438	532
50	-	62	125	167	217	276	345	426	519
55	-	-	117	158	208	266	334	414	506
60	-	-	-	150	198	256	323	402	493
65	-	-	-	-	-	245	312	389	479
75	-	-	-	-	-	-	288	363	451
oefficient of pe	rformanco (C.C) P)							
35	1.55	1.85	2.69	3.26	3.95	4.79	5.81	7.04	8.55
40	1.38	1.65	2.39	2.88	3.48	4.20	5.07	6.11	7.36
45	1.22	1.47	2.12	2.55	3.06	3.68	4.41	5.29	6.33
50	-	1.31	1.87	2.24	2.69	3.22	3.84	4.58	5.46
55	-	-	1.65	1.97	2.35	2.81	3.34	3.97	4.71
60	-	-	-	1.73	2.06	2.44	2.90	3.43	4.06
65	_	-	-	-	-	2.12	2.50	2.97	3.50
~~							1.87	2.20	2.59

Nominal performance at to = 7.2 °C	, tc = 54.4 °C	
Cooling capacity	12 070	W
Power input	3 917	W
Current consumption	7.10	A
Mass flow	296	kg/h
C.O.P.	3.08	

Pressure switch settings		
Maximum HP switch setting	20.2	bar(g)
Minimum LP switch setting	0.1	bar(g)
LP pump down setting	0.4	bar(g)
Sound power data		
Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

Tolerance according EN12900

to: Evaporating temperature at dew point tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

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R134a

Maneurop reciprocating compressor. MTZ064-4

Danfoss

R404A

Performance data at 60 Hz, EN 12900 rating conditions

Cond. temp. in				Evapora	ting temperatur	e in °C (to)			1
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10
30 30	4 428	6 104	9 142	10 502	12 406	16 004	20 863	25.410	20 621
		6 104	8 143	10 592	13 496	16 904		25 419	30 621
35	3 831	5 409	7 320	9 609	12 323	15 511	19 218	23 493	28 382
40	3 230	4 702	6 474	8 595	11 110	14 068	17 515	21 499	26 066
45	2 634	3 988	5 613	7 557	9 864	12 583	15 761	19 444	23 680
50	2 047	3 276	4 745	6 501	8 592	11 062	13 961	17 335	21 230
55	-	2 572	3 876	5 436	7 300	9 513	12 124	15 179	18 725
60	-	1 883	3 012	4 367	5 995	7 942	10 256	12 982	16 169
Power input in V	v								
30	3 021	3 487	3 901	4 273	4 610	4 922	5 220	5 511	5 805
35	3 011	3 545	4 020	4 446	4 832	5 187	5 520	5 842	6 160
40	2 951	3 560	4 104	4 593	5 035	5 440	5 818	6 177	6 527
45	2 833	3 525	4 145	4 704	5 211	5 674	6 104	6 509	6 898
50	2 649	3 431	4 136	4 773	5 351	5 881	6 370	6 828	7 265
55	-	3 269	4 067	4 790	5 448	6 051	6 608	7 128	7 620
60	-	3 033	3 930	4 747	5 493	6 178	6 810	7 399	7 954
Current consum	ption in A	•	1	1	1		1		
30	5.23	5.75	6.27	6.77	7.25	7.69	8.11	8.48	8.80
35	5.24	5.80	6.36	6.89	7.40	7.87	8.31	8.69	9.03
40	5.20	5.83	6.44	7.02	7.57	8.09	8.56	8.99	9.35
45	5.10	5.80	6.48	7.14	7.76	8.33	8.86	9.34	9.75
50	4.92	5.71	6.48	7.22	7.92	8.58	9.18	9.73	10.21
55	-	5.54	6.41	7.26	8.05	8.80	9.50	10.13	10.70
60	-	5.25	6.26	7.22	8.13	9.00	9.80	10.54	11.20
Mass flow in kg/l		100	244	210	295	471	560	690	905
30 35	139 130	188 179	244 235	310 300	385 375	471	569	680 667	805 791
							557		
40	119	168	224	289	363	448	544	653	776
45	106	155	211	276	350	434	529	636	758
50	92	141	197	261	334	417	511	618	737
55	-	125	180	244	316	398	491	596	714
60	-	106	162	225	296	377	469	573	689
Coefficient of pe	rformance (C.0	D.P.)							
30	1.47	1.75	2.09	2.48	2.93	3.43	4.00	4.61	5.28
35	1.27	1.53	1.82	2.16	2.55	2.99	3.48	4.02	4.61
40	1.09	1.32	1.58	1.87	2.21	2.59	3.01	3.48	3.99
45	0.93	1.13	1.35	1.61	1.89	2.22	2.58	2.99	3.43
50	0.77	0.95	1.15	1.36	1.61	1.88	2.19	2.54	2.92
55	-	0.79	0.95	1.13	1.34	1.57	1.83	2.13	2.46
60	-	0.62	0.77	0.92	1.01	1.29	1.51	1.75	2.03
		-	ı				-		
Nominal perform	nance at to = -1	0 °C, tc = 45 °C				Pressure switch	settings		
Cooling capacity		9 864	W			Maximum HP swi	•	27.7	bar(g)
Power input		5 211	w			Minimum LP swite		1	bar(g)
urrent concumn	non	7 76	Δ			I I P nump down or			

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

7.76

350

1.89

A

kg/h

Maximum HP switch setting	21.1	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)
Sound power data		
Sound power data Sound power level	84	dB(A)

Tolerance according EN12900

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Current consumption

Mass flow

C.O.P.

Maneurop reciprocating compressor. MTZ064-4

Danfoss

R404A

Performance data at 60 Hz, ARI rating conditions

Cond. temp. in	Evaporating temperature in °C (to)										
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10		
ooling capacity	in W										
30	4 929	6 777	9 017	11 699	14 874	18 589	22 895	27 840	33 475		
35	4 310	6 067	8 185	10 714	13 705	17 206	21 268	25 941	31 273		
40	3 683	5 339	7 326	9 694	12 492	15 772	19 582	23 973	28 995		
45	3 052	4 601	6 449	8 646	11 244	14 293	17 844	21 947	26 652		
50	2 425	3 858	5 559	7 578	9 968	12 781	16 066	19 874	24 257		
55	-	3 117	4 664	6 500	8 677	11 247	14 261	17 772	21 830		
60	-	2 381	3 772	5 421	7 383	9 710	12 456	15 671	19 409		
Power input in W											
30	3 021	3 487	3 901	4 273	4 610	4 922	5 220	5 511	5 805		
35	3 011	3 545	4 020	4 446	4 832	5 187	5 520	5 842	6 160		
40	2 951	3 560	4 104	4 593	5 035	5 440	5 818	6 177	6 527		
45	2 833	3 525	4 145	4 704	5 211	5 674	6 104	6 509	6 898		
50	2 649	3 431	4 136	4 773	5 351	5 881	6 370	6 828	7 265		
55	-	3 269	4 067	4 790	5 448	6 051	6 608	7 128	7 620		
60	-	3 033	3 930	4 747	5 493	6 178	6 810	7 399	7 954		
Current consump	tion in A										
30	5.23	5.75	6.27	6.77	7.25	7.69	8.11	8.48	8.80		
35	5.24	5.80	6.36	6.89	7.40	7.87	8.31	8.69	9.03		
40	5.20	5.83	6.44	7.02	7.57	8.09	8.56	8.99	9.35		
45	5.10	5.80	6.48	7.14	7.76	8.33	8.86	9.34	9.75		
50	4.92	5.71	6.48	7.22	7.92	8.58	9.18	9.73	10.21		
55	-	5.54	6.41	7.26	8.05	8.80	9.50	10.13	10.70		
60	-	5.25	6.26	7.22	8.13	9.00	9.80	10.54	11.20		
			•	•	•	•	•	•	•		
Mass flow in kg/h											
30	139	187	243	308	383	468	565	676	800		
35	129	178	234	298	373	457	554	663	786		
40	118	167	223	287	361	445	541	649	770		
45	105	154	210	274	348	431	525	632	752		
50	91	140	196	259	332	415	508	614	732		
55	-	124	179	243	314	396	488	593	710		
60	-	106	161	223	294	375	466	569	684		
Coefficient of per	formance (C.C	P)									
30	1.63	1.94	2.31	2.74	3.23	3.78	4.39	5.05	5.77		
35	1.43	1.71	2.04	2.41	2.84	3.32	3.85	4.44	5.08		
40	1.25	1.50	1.79	2.11	2.48	2.90	3.37	3.88	4.44		
45	1.08	1.31	1.56	1.84	2.16	2.52	2.92	3.37	3.86		
50	0.92	1.12	1.34	1.59	1.86	2.17	2.52	2.91	3.34		
55	-	0.95	1.15	1.36	1.59	1.86	2.16	2.49	2.87		
60	-	0.33	0.96	1.14	1.39	1.57	1.83	2.49	2.07		

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	11 244	W
Power input	5 211	W
Current consumption	7.76	Α
Mass flow	348	kg/h
C.O.P.	2.16	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	84	dB(A)
With accoustic hood	78	dB(A)

Tolerance according EN12900



Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, EN 12900 rating conditions

Cond. temp. in				Evapora	ting temperatur	re in °C (to)			
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10
ooling capacity	in W								
30	3 112	4 613	6 491	8 804	11 609	14 962	18 922	23 547	28 892
35	2 657	4 076	5 848	8 029	10 678	13 850	17 605	21 998	27 088
40	2 007	3 528	5 186	7 229	9 714	12 698	16 239	20 395	25 222
40	1 744	2 979	4 516	6 413	8 727	11 516	14 837	18 747	23 222
	-			5 592	7 728	10 315	13 408		23 304
50 55	-	2 438	3 848	4 776	6 728	9 105	13 408	17 066 15 362	19 358
60	-	-	3 192	3 977	5 737	7 896			19 358
60	-	-	-	3911	5737	7 690	10 514	13 646	17 350
Power input in W				1	1		1	1	
30	2 191	2 652	3 089	3 495	3 863	4 187	4 460	4 675	4 826
35	2 145	2 652	3 138	3 596	4 018	4 399	4 732	5 011	5 228
40	2 071	2 628	3 166	3 679	4 160	4 602	4 999	5 345	5 631
45	1 966	2 576	3 171	3 743	4 286	4 793	5 258	5 674	6 034
50	-	2 495	3 150	3 784	4 393	4 969	5 505	5 995	6 432
55	-	-	3 099	3 801	4 479	5 127	5 738	6 307	6 825
60	-	-	-	3 790	4 541	5 265	5 955	6 605	7 208
Current consum	otion in A								
30	5.37	5.72	6.13	6.55	6.96	7.33	7.64	7.84	7.92
35	5.40	5.76	6.18	6.63	7.09	7.51	7.88	8.17	8.34
40	5.40	5.78	6.22	6.71	7.21	7.70	8.15	8.52	8.79
45	5.37	5.77	6.24	6.78	7.34	7.90	8.42	8.89	9.27
50	-	5.72	6.24	6.82	7.45	8.08	8.70	9.28	9.77
55	-	-	6.19	6.84	7.54	8.26	8.98	9.66	10.28
60	-	-	-	6.82	7.60	8.42	9.24	10.04	10.79
loop flow in kal	_								
Mass flow in kg/l 30	74	108	149	198	256	325	404	496	600
35	67	100	143	190	230	316	395	486	590
40	59	92	132	181	238	305	384	474	578
45	50	83	122	170	200	293	371	461	564
50	-	72	111	158	214	233	357	446	547
55	-	-	100	146	200	265	341	429	529
60	_	-	-	132	185	249	323	410	509
					100	2.0	020		
Coefficient of per		1							
30	1.42	1.74	2.10	2.52	3.01	3.57	4.24	5.04	5.99
35	1.24	1.54	1.86	2.23	2.66	3.15	3.72	4.39	5.18
40	1.06	1.34	1.64	1.96	2.34	2.76	3.25	3.82	4.48
45	0.89	1.16	1.42	1.71	2.04	2.40	2.82	3.30	3.86
50	-	0.98	1.22	1.48	1.76	2.08	2.44	2.85	3.32
55	-	-	1.03	1.26	1.50	1.78	2.08	2.44	2.84
60	-	-	-	1.05	1.26	1.50	1.77	2.07	2.41
Nominal perform	ance at to = -1	0 °C, tc = 45 °C				Pressure switch	settings		
Cooling capacity		8 727	W			Maximum HP swi	U U	25.8	bar(g)
Power input		4 286	W	1		Minimum LP swite	•	0.9	bar(g)
Current consumpt	tion	7 34	Α	1		LP nump down se	ottina	12	har(g)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

7.34

227

2.04

А

kg/h

Minimum LP switch setting	0.9	bar(g)
LP pump down setting	1.2	bar(g)
Sound power data		

Sound power level	82	dB(A)
With accoustic hood	76	dB(A)

Tolerance according EN12900

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Current consumption

Mass flow

C.O.P.



R407A

Maneurop reciprocating compressor. MTZ064-4

Danfoss

Performance data at 60 Hz. ARI rating conditions

Performance	e data at 6	0 Hz, ARI rat	ing conditio	ns					R407/
Cond. temp. in				Evapor	ating temperature	in °C (to)			
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10
ooling capacity		4.000	7 000	0.400	10,400	40.070	00.000	05.000	00.000
30	3 365	4 982	7 000	9 482	12 486	16 073	20 303	25 236	30 932
35	2 890	4 428	6 342	8 694	11 545	14 955	18 984	23 691	29 138
40	2 407	3 858	5 660	7 877	10 567	13 792	17 612	22 088	27 280
45	1 926	3 283	4 967	7 039	9 562	12 596	16 201	20 438	25 368
50	-	2 714	4 271	6 193	8 541	11 377	14 760	18 754	23 417
55	-	-	3 585	5 350	7 516	10 147	13 304	17 047	21 439
60	-	-	-	4 519	6 499	8 920	11 845	15 335	19 451
ower input in W	1								
30	2 191	2 652	3 089	3 495	3 863	4 187	4 460	4 675	4 826
35	2 145	2 652	3 138	3 596	4 018	4 399	4 732	5 011	5 228
40	2 071	2 628	3 166	3 679	4 160	4 602	4 999	5 345	5 631
45	1 966	2 576	3 171	3 743	4 286	4 793	5 258	5 674	6 034
50	-	2 495	3 150	3 784	4 393	4 969	5 505	5 995	6 432
55	-	-	3 099	3 801	4 479	5 127	5 738	6 307	6 825
60	_	-	-	3 790	4 541	5 265	5 955	6 605	7 208
rrent consum	otion in A	5.72	6.13	6.55	6.96	7.33	7.64	7.84	7.92
35	5.40	5.76		6.63	7.09	7.51	7.88	8.17	8.34
40	5.40	5.78	6.18 6.22	6.71	7.09				
						7.70	8.15	8.52	8.79
45	5.37	5.77	6.24	6.78	7.34	7.90	8.42	8.89	9.27
50	-	5.72	6.24	6.82	7.45	8.08	8.70	9.28	9.77
55 60	-	-	6.19	6.84 6.82	7.54	8.26	8.98 9.24	9.66 10.04	10.28
uss flow in kg/l				0.02	1.00	0.42	5.24	10.04	10.15
30	74	107	148	197	255	323	402	493	597
35	66	100	140	189	246	314	392	483	587
40	58	91	132	180	237	304	381	471	574
45	49	82	122	169	225	292	369	458	560
50	-	72	111	158	213	278	355	443	544
55	-	-	99	145	199	264	339	426	526
60	-	-	-	131	184	248	322	408	506
efficient of pe	rformance (C.0	D.P.)							
30	1.54	1.88	2.27	2.71	3.23	3.84	4.55	5.40	6.41
35	1.35	1.67	2.02	2.42	2.87	3.40	4.01	4.73	5.57
40	1.16	1.47	1.79	2.14	2.54	3.00	3.52	4.13	4.84
45	0.98	1.27	1.57	1.88	2.23	2.63	3.08	3.60	4.20
50	-	1.09	1.36	1.64	1.94	2.29	2.68	3.13	3.64
55	-	-	1.16	1.41	1.68	1.98	2.32	2.70	3.14
60	-	-	-	1.19	1.43	1.69	1.99	2.70	2.70
00	-	-	-	1.15	1.45	1.03	1.55	2.52	2.70
minal perform	ance at to = -1	0 °C, tc = 45 °C				Pressure switch	settings		
oling capacity		9 562	W			Maximum HP swi	-	25.8	bar(g)
ower input		4 286	W			Minimum LP swite		0.9	bar(g)
urrent consumpt		7 34	•	1		I P nump down se	11 ²	1 2	har(a)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

7.34

225

2.23

А

kg/h

Minimum LP switch setting	0.9	bar(g)
LP pump down setting	1.2	bar(g)
-		
Sound power data		

Sound power level	82	dB(A)
With accoustic hood	76	dB(A)

Tolerance according EN12900

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Current consumption

Mass flow

C.O.P.

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, EN 12900 rating conditions

ond. temp. in				Evapora	ating temperature	in °C (to)			
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10
oling capacity i	- N/								
30	-	5 043	7 152	9 752	12 910	16 694	21 170	26 407	32 472
35	-	4 337	6 258	8 629	11 517	14 988	19 111	23 952	29 579
40	-	3 733	5 497	7 668	10 314	13 502	17 300	21 775	26 99
45	-	3 209	4 844	6 845	9 278	12 212	15 714	19 852	24 69
50	-	-	4 274	6 134	8 384	11 094	14 330	18 159	22 64
55	-	_	-	5 512	7 609	10 123	13 121	16 671	20 84
60	-	-	-	-	-	-	_	-	
ower input in W									
30	-	2 813	3 263	3 687	4 063	4 372	4 593	4 707	4 694
35	-	2 820	3 314	3 794	4 241	4 633	4 951	5 175	5 285
40	-	2 828	3 356	3 884	4 392	4 859	5 265	5 591	5 815
45	-	2 850	3 405	3 972	4 533	5 066	5 551	5 969	6 300
50	-	-	3 477	4 075	4 679	5 270	5 826	6 328	6 756
55	-	-	-	4 209	4 848	5 487	6 105	6 682	7 199
60	-	-	-	-	-	-	-	-	-
30 35	-	5.73 5.84	6.17 6.29	6.63 6.77	7.07	7.46	7.75 8.08	7.92 8.34	7.92
40	-	5.88	6.35	6.87	7.41	7.92	8.38	8.75	8.98
45	-	5.88	6.37	6.94	7.54	8.14	8.69	9.17	9.52
50	-	-	6.40	7.02	7.69	8.37	9.03	9.62	10.11
55	-	-	-	7.12	7.87	8.65	9.42	10.14	10.78
60	-	-	-	-	-	-	-	-	-
lass flow in kg/h									
30	-	104	146	196	255	325	407	502	611
35	-	94	133	181	238	305	384	475	580
40	-	85	123	169	224	289	365	453	554
45	-	77	114	159	212	275	349	434	533
50	-	-	107	151	203	264	336	420	516
55	-	-	-	145	196	257	327	409	503
60	-	-	-	-	-	-	-	-	-
coefficient of perf	formance (C.C) P)							
30	-	1.79	2.19	2.65	3.18	3.82	4.61	5.61	6.92
35	-	1.54	1.89	2.27	2.72	3.24	3.86	4.63	5.60
40	_	1.32	1.64	1.97	2.35	2.78	3.29	3.89	4.64
45	_	1.13	1.42	1.72	2.05	2.41	2.83	3.33	3.92
50	-	-	1.42	1.51	1.79	2.11	2.46	2.87	3.35
					1.73	1.84	2.40	2.49	2.90
55	-	-	-	1.31					

Nominal portormanoe at to	10 0,10 40 0		
Cooling capacity	9 278	W	
Power input	4 533	W	
Current consumption	7.54	A	
Mass flow	212	kg/h	
C.O.P.	2.05		

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

r ressare switch settings			
Maximum HP switch setting	24	bar(g)	
Minimum LP switch setting	1	bar(g)	
LP pump down setting	1.26	bar(g)	
			_

Sound power data

Sound power level	82	dB(A)
With accoustic hood	76	dB(A)

Tolerance according EN12900

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R407F

Danfoss

R407F

Datasheet, performance data

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, ARI rating conditions

Cond. temp. in				Evapor	ating temperature	in °C (to)			
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity	in W	-							
30	-	5 405	7 657	10 431	13 795	17 822	22 581	28 143	34 577
35	-	4 670	6 731	9 271	12 360	16 069	20 469	25 630	31 623
40	-	4 042	5 944	8 281	11 125	14 547	18 618	23 410	28 992
45	-	3 497	5 270	7 436	10 067	13 234	17 008	21 461	26 664
50	-	-	4 686	6 713	9 163	12 106	15 616	19 763	24 619
55	-	-	-	6 089	8 391	11 144	14 423	18 298	22 842
60	-	-	-	-	-	-	-	-	-
Power input in W	1								
30	-	2 813	3 263	3 687	4 063	4 372	4 593	4 707	4 694
35	-	2 820	3 314	3 794	4 241	4 633	4 951	5 175	5 285
						1			

35	-	2 820	3 314	3 794	4 241	4 633	4 951	5 175	5 285
40	-	2 828	3 356	3 884	4 392	4 859	5 265	5 591	5 815
45	-	2 850	3 405	3 972	4 533	5 066	5 551	5 969	6 300
50	-	-	3 477	4 075	4 679	5 270	5 826	6 328	6 756
55	-	-	-	4 209	4 848	5 487	6 105	6 682	7 199
60	-	-	-	-	-	-	-	-	-

Current consumption in A

30	-	5.73	6.17	6.63	7.07	7.46	7.75	7.92	7.92
35	-	5.84	6.29	6.77	7.26	7.71	8.08	8.34	8.45
40	-	5.88	6.35	6.87	7.41	7.92	8.38	8.75	8.98
45	-	5.88	6.37	6.94	7.54	8.14	8.69	9.17	9.52
50	-	-	6.40	7.02	7.69	8.37	9.03	9.62	10.11
55	-	-	-	7.12	7.87	8.65	9.42	10.14	10.78
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

30	-	104	145	194	254	323	405	499	607
35	-	93	133	180	237	304	382	472	577
40	-	85	122	168	223	287	362	450	551
45	-	77	114	158	211	273	347	432	529
50	-	-	107	150	202	263	334	417	513
55	-	-	-	144	195	255	325	407	500
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

	(,							
30	-	1.92	2.35	2.83	3.40	4.08	4.92	5.98	7.37
35	-	1.66	2.03	2.44	2.91	3.47	4.13	4.95	5.98
40	-	1.43	1.77	2.13	2.53	2.99	3.54	4.19	4.99
45	-	1.23	1.55	1.87	2.22	2.61	3.06	3.60	4.23
50	-	-	1.35	1.65	1.96	2.30	2.68	3.12	3.64
55	-	-	-	1.45	1.73	2.03	2.36	2.74	3.17
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	10 067	W
Power input	4 533	W
Current consumption	7.54	А
Mass flow	211	kg/h
C.O.P.	2.22	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Pressure switch settings		
Maximum HP switch setting	24	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.26	bar(g)

Sound power data

eeana pener aata		
Sound power level	82	dB(A)
With accoustic hood	76	dB(A)

Tolerance according EN12900



Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, EN 12900 rating conditions

°C (tc)				1	ting temperatur			· ·- ·	
ooling canacity	-25	-20	-10	-5	0	5	10	15	20
		0.040	0.400	0.000	10 700	10 710	17.000		
35	2 197	3 216	6 166	8 209	10 708	13 718	17 296	21 499	26 382
40	1 879	2 834	5 590	7 503	9 848	12 683	16 063	20 045	24 686
45	1 577	2 469	5 031	6 813	9 006	11 665	14 848	18 610	23 009
50	1 292	2 121	4 489	6 142	8 182	10 666	13 651	17 194	21 350
55	-	-	3 967	5 489	7 377	9 686	12 474	15 798	19 712
60	-	-	-	4 856	6 591	8 727	11 318	14 422	18 095
65	-	-	-	-	5 827	7 787	10 182	13 067	16 499
75	-	-	-	-	-	-	7 976	10 424	13 374
ower input in W		4 000	0.404	0.704	0.001	0.004	0.000	0.070	0.000
35	1 540	1 890	2 481	2 721	2 921	3 081	3 200	3 276	3 309
40	1 490	1 877	2 545	2 823	3 063	3 263	3 422	3 539	3 613
45	1 418	1 846	2 599	2 920	3 203	3 447	3 650	3 811	3 929
50	1 321	1 795	2 639	3 006	3 336	3 627	3 878	4 088	4 255
55	-	-	2 662	3 080	3 460	3 802	4 105	4 366	4 585
60	-	-	-	3 135	3 571	3 967	4 325	4 642	4 918
65	-	-	-	-	3 664	4 119	4 536	4 913	5 248
75	-	-	-	-	-	-	4 915	5 421	5 888
urrent consump		5.00	5.00	0.00	0.00	0.40	0.57	0.70	0.00
35	5.63	5.68	5.90	6.06	6.23	6.40	6.57	6.72	6.83
40	5.54	5.63	5.93	6.11	6.31	6.50	6.68	6.83	6.94
45	5.41	5.56	5.96	6.19	6.42	6.64	6.84	7.01	7.14
50	5.23	5.45	5.98	6.26	6.54	6.81	7.05	7.26	7.41
55	-	-	5.97	6.33	6.67	7.00	7.29	7.54	7.74
60	-	-	-	6.36	6.79	7.18	7.54	7.86	8.11
65	-	-	-	-	6.88	7.36	7.80	8.18	8.51
75	-	-	-	-	-	-	8.25	8.83	9.33
lass flow in kg/h		00	4 4 7	101	244	200	270	402	500
35	56	80	147	191	244	306	378	463	560
40	50	75	140	183	235	297	368	452	547
45	45	69	133	176	227	287	358	440	535
50	39	63	126	167	218	277	347	429	522
55	-	-	118	159	209	267	336	417	509
60	-	-	-	151	199	257	325	404	496
65	-	-	-	-	190	246	313	392	482
75	-	-	-	-	-	-	289	365	453
oefficient of per	•	1	0.40	0.00	0.07	4.45	5.40	0.50	7.07
35	1.43	1.70	2.49	3.02	3.67	4.45	5.40	6.56	7.97
40	1.26	1.51	2.20	2.66	3.21	3.89	4.69	5.66	6.83
45	1.11	1.34	1.94	2.33	2.81	3.38	4.07	4.88	5.86
	0.98	1.18	1.70	2.04	2.45	2.94	3.52	4.21	5.02
50	-	-	1.49	1.78	2.13	2.55	3.04	3.62	4.30
50 55	-	-	-	1.55	1.85	2.20	2.62	3.11	3.68
50 55 60		-	-	-	1.59	1.89	2.24	2.66	3.14
50 55 60 65	-			-	-	-	1.62	1.92	2.27
50 55 60	-	-	-						
50 55 60 65 75	-		-			_			
50 55 60 65 75 Iominal perform	-	°C, tc = 50 °C		·		Pressure switch	-		b = -()
50 55 60 65 75 Iominal perform Cooling capacity	-	° C, tc = 50 °C 10 666	6 W	· 		Maximum HP swit	ch setting	20.2	bar(g)
50 55 60 65 75 Cooling capacity Yower input	- ance at to = 5 °	° C, tc = 50 °C 10 666 3 627	s W W			Maximum HP swit	ch setting h setting	0.1	bar(g)
50 55 60 65 75 cominal perform cooling capacity	- ance at to = 5 °	° C, tc = 50 °C 10 666 3 627 6.81	6 W W A]		Maximum HP swit	ch setting h setting		(0)
50 55 60 65 75 Cominal perform Cooling capacity Invoice input Courrent consumpt Courrent consumpt Consum	- ance at to = 5 °	° C, tc = 50 °C 10 666 3 627	s W W			Maximum HP swit	ch setting h setting tting	0.1	bar(g)

tc: Condensing temperature at dew point

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

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Danfoss

R134a

Maneurop reciprocating compressor. MTZ064-4

Performance data at 60 Hz, ARI rating conditions

Performance) Hz, ARI rat	ing conditio	115					R134
Cond. temp. in				Evapora	ting temperature	in °C (to)			
°C (tc)	-25	-20	-10	-5	0	5	10	15	20
35	2 388	3 489	6 667	8 862	11 541	14 764	18 588	23 072	28 276
40	2 054	3 093	6 075	8 140	10 666	13 714	17 341	21 608	26 572
45	1 736	2 712	5 501 4 943	7 435 6 746	9 808	12 681	16 112	20 161	24 887
50	-	2 347	-		8 968	11 666	14 902	18 734	23 222
55	-	-	4 403	6 076 5 425	8 146	10 671 9 695	13 711 12 542	17 327 15 943	21 578 19 958
60 65	-	-	-	5 425	7 343	1			
65 75	-	-	-	-	-	8 741	11 395	14 582 11 947	18 364
75	-	-	-	-	-	-	9 178	11 947	15 271
ower input in W	1								
35	1 540	1 890	2 481	2 721	2 921	3 081	3 200	3 276	3 309
40	1 490	1 877	2 545	2 823	3 063	3 263	3 422	3 539	3 613
45	1 418	1 846	2 599	2 920	3 203	3 447	3 650	3 811	3 929
50	-	1 795	2 639	3 006	3 336	3 627	3 878	4 088	4 255
55	-	-	2 662	3 080	3 460	3 802	4 105	4 366	4 585
60	-	-	-	3 135	3 571	3 967	4 325	4 642	4 918
65	-	-	-	-	-	4 119	4 536	4 913	5 248
75	-	-	-	-	-	-	4 915	5 421	5 888
urrent consum	otion in A								
35	5.63	5.68	5.90	6.06	6.23	6.40	6.57	6.72	6.83
40	5.54	5.63	5.93	6.11	6.31	6.50	6.68	6.83	6.94
45	5.41	5.56	5.96	6.19	6.42	6.64	6.84	7.01	7.14
50	-	5.45	5.98	6.26	6.54	6.81	7.05	7.26	7.41
55	-	-	5.97	6.33	6.67	7.00	7.29	7.54	7.74
60	-	-	-	6.36	6.79	7.18	7.54	7.86	8.11
65	-	-	-	-	-	7.36	7.80	8.18	8.51
75	-	-	-	-	-	-	8.25	8.83	9.33
lass flow in kg/ł									
35	55	80	146	190	242	304	376	460	556
40	50	74	139	182	234	295	366	449	544
45	45	68	132	175	225	286	356	438	532
50	-	62	125	167	217	276	345	426	519
55	-	-	117	158	208	266	334	414	506
60	-	-	-	150	198	256	323	402	493
65	-	-	-	-	-	245	312	389	479
75	-	-	-	-	-	-	288	363	451
oefficient of pe	rformanco (C.C) P)							
35	1.55	1.85	2.69	3.26	3.95	4.79	5.81	7.04	8.55
40	1.38	1.65	2.39	2.88	3.48	4.20	5.07	6.11	7.36
45	1.22	1.47	2.12	2.55	3.06	3.68	4.41	5.29	6.33
50	-	1.31	1.87	2.24	2.69	3.22	3.84	4.58	5.46
55	-	-	1.65	1.97	2.35	2.81	3.34	3.97	4.71
60	-	-	-	1.73	2.06	2.44	2.90	3.43	4.06
65		-	-	-	-	2.12	2.50	2.97	3.50
~~							1.87	2.20	2.59

Nominal performance at to = 7.2 °C, tc = 54.4 °C									
Cooling capacity	12 070	W							
Power input	3 917	W							
Current consumption	7.10	A							
Mass flow	296	kg/h							
C.O.P.	3.08								

Pressure switch settings		
Maximum HP switch setting	20.2	bar(g)
Minimum LP switch setting	0.1	bar(g)
LP pump down setting	0.4	bar(g)
Sound power data		
Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

Tolerance according EN12900

to: Evaporating temperature at dew point tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

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R134a

Maneurop reciprocating compressor. MTZ064-4

Danfoss

+ CO U- EN 42000 --1 - 4 . . . ! .

Performanc	e data at 60	0 Hz, EN 1290	0 rating co	nditions				ſ	R4070
Cond. temp. in				Evapora	ting temperatur	re in °C (to)			
°C (tc)	-15	-10	-5	0	5	10	15		
a aling acrossity	/ in 14/								
35	7 260	9 715	12 611	16 000	19 940	24 487	29 695	-	-
40	6 687	9 044	11 807	15 031	18 773	23 086	28 027	-	-
45	6 081	8 326	10 943	13 989	17 518	21 585	26 246	-	-
50	-	7 576	10 035	12 889	16 192	19 999	24 366	-	-
55	-	-	9 097	11 745	14 809	18 343	22 401	-	-
60	-	-	-	10 572	13 383	16 629	20 366	-	-
65	-	-	-	9 382	11 926	14 872	18 272	-	-
ower input in V	v								
35	3 396	3 737	4 031	4 294	4 543	4 792	5 057	-	-
40	3 541	3 951	4 303	4 614	4 899	5 173	5 453	-	-
45	3 644	4 136	4 560	4 931	5 266	5 579	5 887	-	-
50	-	4 283	4 791	5 237	5 634	6 000	6 349	-	-
55	-	-	4 987	5 520	5 994	6 424	6 828	-	-
60	-	-	-	5 771	6 335	6 844	7 316	-	-
65	-	-	-	5 982	6 648	7 249	7 802	-	-
urrent consum		<u>г </u>		Г	1		1		
35	5.85	6.15	6.41	6.63	6.83	7.03	7.24	-	-
40	6.02	6.43	6.78	7.09	7.37	7.64	7.92	-	-
45	6.13	6.65	7.11	7.51	7.89	8.24	8.58	-	-
50	-	6.82	7.39	7.90	8.37	8.81	9.24	-	-
55	-	-	7.62	8.25	8.82	9.36	9.88	-	-
60	-	-	-	8.55	9.24	9.88	10.49	-	-
65	-	-	-	8.80	9.61	10.37	11.09	-	-
/lass flow in kg/l	h								
35	157	207	265	330	406	491	588	-	_
40	152	203	260	326	400	485	581	_	-
45	146	197	254	319	393	477	572	_	-
43 50	-	197	234	313	384	467	560		
55	-	-	238	301	373	454	545	-	-
60	-	-	-	291	361	440	529	-	-
65	-	-	-	279	347	424	511	-	-
oefficient of pe	rformance (C.C	D.P.)							
35	2.14	2.60	3.13	3.73	4.39	5.11	5.87	-	-
40	1.89	2.29	2.74	3.26	3.83	4.46	5.14	-	-
45	1.67	2.01	2.40	2.84	3.33	3.87	4.46	-	-
50	-	1.77	2.09	2.46	2.87	3.33	3.84	-	-
55	-	-	1.82	2.13	2.47	2.86	3.28	-	-
60	-	-	-	1.83	2.11	2.43	2.78	-	-
65	-	-	-	1.57	1.79	2.05	2.34	-	-
lominal perform	anco at to - E (°C to = 50 °C				Pressure switch	eattinge		
Cooling capacity	ance at to = 5	16 192	W			Maximum HP swit	-	29.4	bar(g)
Power input		5 634	W			Minimum LP switc	0	1.4	bar(g)
Current consump	tion	8.37	A	1		LP pump down se	-	1.7	bar(g)
lass flow		384	kg/h						
C.O.P.		2.87				Sound power dat			
						Sound power leve		86	dB(A)

tc: Condensing temperature at dew point

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

Sound power level	86
With accoustic hood	80

Tolerance according EN12900

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Maneurop reciprocating compressor. MTZ064-4

Danfoss

R407C

Performance data at 60 Hz, ARI rating conditions

Cond. temp. in		Evaporating temperature in °C (to)										
°C (tc)	-15	-10	-5	0	5	10	15					
Cooling capacity	y in W											
35	7 814	10 444	13 541	17 161	21 364	26 207	31 749	-	-			
40	7 237	9 774	12 744	16 203	20 212	24 827	30 108	-	-			
45	6 623	9 054	11 883	15 168	18 969	23 343	28 349	-	-			
50	-	8 299	10 974	14 072	17 651	21 770	26 487	-	-			
55	-	-	10 033	12 930	16 275	20 125	24 540	-	-			
60	-	-	-	11 759	14 855	18 423	22 522	-	-			
65	-	-	-	10 573	13 407	16 679	20 449	-	-			

Power input in W

35	3 396	3 737	4 031	4 294	4 543	4 792	5 057	-	-
40	3 541	3 951	4 303	4 614	4 899	5 173	5 453	-	-
45	3 644	4 136	4 560	4 931	5 266	5 579	5 887	-	-
50	-	4 283	4 791	5 237	5 634	6 000	6 349	-	-
55	-	-	4 987	5 520	5 994	6 424	6 828	-	-
60	-	-	-	5 771	6 335	6 844	7 316	-	-
65	-	-	-	5 982	6 648	7 249	7 802	-	-

Current consumption in A

35	5.85	6.15	6.41	6.63	6.83	7.03	7.24	-	-
40	6.02	6.43	6.78	7.09	7.37	7.64	7.92	-	-
45	6.13	6.65	7.11	7.51	7.89	8.24	8.58	-	-
50	-	6.82	7.39	7.90	8.37	8.81	9.24	-	-
55	-	-	7.62	8.25	8.82	9.36	9.88	-	-
60	-	-	-	8.55	9.24	9.88	10.49	-	-
65	-	_	-	8.80	9.61	10.37	11.09	-	-

Mass flow in kg/h

35	157	206	263	329	403	488	584	-	-
40	152	202	259	324	398	482	578	-	-
45	146	196	253	317	391	474	568	-	-
50	-	189	245	309	382	464	556	-	-
55	-	-	237	300	371	452	542	-	-
60	-	-	-	289	359	437	526	-	-
65	-	-	-	277	345	422	508	-	-

Coefficient of performance (C.O.P.)

		/							
35	2.30	2.80	3.36	4.00	4.70	5.47	6.28	-	-
40	2.04	2.47	2.96	3.51	4.13	4.80	5.52	-	-
45	1.82	2.19	2.61	3.08	3.60	4.18	4.82	-	-
50	-	1.94	2.29	2.69	3.13	3.63	4.17	-	-
55	-	-	2.01	2.34	2.72	3.13	3.59	-	-
60	-	-	-	2.04	2.34	2.69	3.08	-	-
65	-	-	-	1.77	2.02	2.30	2.62	_	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	18 085	W
Power input	6 141	W
Current consumption	9.01	Α
Mass flow	407	kg/h
C.O.P.	2.94	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Pressure switch settings		
Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	86	dB(A)
With accoustic hood	80	dB(A)

Tolerance according EN12900



Danfoss

Maneurop reciprocating compressor. MTZ064-4

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

Cond. temp. in Evaporating temperature in °C (to)									
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	-	7 225	9 572	12 427	15 840	-	-	-	-
20	-	6 078	8 198	10 775	13 856	17 492	21 735	-	-
30	-	4 975	6 859	9 150	11 892	15 132	18 919	23 311	28 372
40	-	-	5 573	7 569	9 963	12 800	16 125	19 987	24 445
50	-	-	-	6 047	8 087	10 514	13 369	16 697	20 544
60	-	-	-	-	6 279	8 290	10 670	13 457	16 689

Power input in W

10	-	2 364	2 555	2 676	2 714	-	-	-	-
20	-	2 582	2 871	3 104	3 268	3 351	3 341	-	-
30	-	2 723	3 112	3 459	3 750	3 975	4 119	4 173	4 123
40	-	-	3 282	3 744	4 164	4 531	4 832	5 056	5 190
50	-	-	-	3 962	4 513	5 024	5 484	5 879	6 199
60	-	-	-	-	4 801	5 458	6 077	6 646	7 153

Current consumption in A

10	-	8.27	8.44	8.48	8.36	-	-	-	-
20	-	6.67	6.97	7.19	7.31	7.30	7.11	-	-
30	-	5.94	6.32	6.69	7.00	7.23	7.34	7.30	7.08
40	-	-	6.26	6.71	7.17	7.60	7.96	8.23	8.36
50	-	-	-	7.01	7.56	8.14	8.71	9.23	9.67
60	-	-	-	-	7.92	8.60	9.33	10.06	10.77

Mass flow in kg/h

10	-	118	157	204	261	-	-	-	-
20	-	107	145	191	246	313	392	-	-
30	-	95	131	176	230	294	371	463	571
40	-	-	117	159	211	273	348	436	542
50	-	-	-	141	191	250	322	407	509
60	-	-	-	-	169	226	294	376	474

Coefficient of performance (C.O.P.)

10	-	3.06	3.75	4.64	5.84	-	-	-	-
20	-	2.35	2.86	3.47	4.24	5.22	6.51	-	-
30	-	1.83	2.20	2.65	3.17	3.81	4.59	5.59	6.88
40	-	-	1.70	2.02	2.39	2.83	3.34	3.95	4.71
50	-	-	-	1.53	1.79	2.09	2.44	2.84	3.31
60	-	-	-	-	1.31	1.52	1.76	2.02	2.33

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	9 017	W
Power input	4 346	W
Current consumption	7.35	A
Mass flow	201	kg/h
C.O.P.	2.07	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Pressure switch settings		
Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound	power	dat

oouna	power data			
Sound	oower level	83	dB(A)	
With ac	coustic hood	77	dB(A)	

Tolerance according EN12900



Maneurop reciprocating compressor. MTZ064-4

Danfoss

R448A

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

Cond. temp. in		Evaporating temperature in °C (to)							
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	5 362	7 261	9 626	12 504	15 942	-	-	-	-
20	4 332	6 039	8 164	10 752	13 853	17 512	21 776	-	-
30	3 369	4 875	6 749	9 040	11 793	15 055	18 875	23 298	28 372
40	2 490	3 785	5 401	7 383	9 779	12 637	16 002	19 922	24 445
50	-	2 789	4 136	5 801	7 831	10 273	13 175	16 583	20 544
60	-	-	2 973	4 311	5 965	7 983	10 411	13 298	16 689

Power input in W

10	2 114	2 364	2 555	2 676	2 714	-	-	-	-
20	2 248	2 582	2 871	3 104	3 268	3 351	3 341	-	-
30	2 303	2 723	3 112	3 459	3 750	3 975	4 119	4 173	4 123
40	2 285	2 792	3 282	3 744	4 164	4 531	4 832	5 056	5 190
50	-	2 792	3 385	3 962	4 513	5 024	5 484	5 879	6 199
60	-	-	3 424	4 119	4 801	5 458	6 077	6 646	7 153

Current consumption in A

10	8.01	8.27	8.44	8.48	8.36	-	-	-	-
20	6.33	6.67	6.97	7.19	7.31	7.30	7.11	-	-
30	5.57	5.94	6.32	6.69	7.00	7.23	7.34	7.30	7.08
40	5.48	5.84	6.26	6.71	7.17	7.60	7.96	8.23	8.36
50	-	6.10	6.51	7.01	7.56	8.14	8.71	9.23	9.67
60	-	-	6.82	7.32	7.92	8.60	9.33	10.06	10.77

Mass flow in kg/h

10	103	138	179	229	287	-	-	-	-
20	90	124	165	214	271	336	412	-	-
30	77	110	150	197	252	316	390	475	571
40	64	95	133	178	231	294	366	448	542
50	-	80	115	158	209	269	339	418	509
60	-	-	97	138	186	243	309	386	474

Coefficient of performance (C.O.P.)

10	2.54	3.07	3.77	4.67	5.87	-	-	-	-
20	1.93	2.34	2.84	3.46	4.24	5.23	6.52	-	-
30	1.46	1.79	2.17	2.61	3.14	3.79	4.58	5.58	6.88
40	1.09	1.36	1.65	1.97	2.35	2.79	3.31	3.94	4.71
50	-	1.00	1.22	1.46	1.74	2.04	2.40	2.82	3.31
60	-	-	0.87	1.05	1.24	1.46	1.71	2.00	2.33

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	8 796	W
Power input	4 346	W
Current consumption	7.35	А
Mass flow	221	kg/h
C.O.P.	2.02	

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	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound	power	dat

Sound power data		
Sound power level	83	dB(A)
With accoustic hood	77	dB(A)

Tolerance according EN12900



Danfoss

Maneurop reciprocating compressor. MTZ064-4

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

Cond. temp. in		Evaporating temperature in °C (to)								
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10	

Cooling capacity in W

10	-	7 239	9 587	12 442	15 855	-	-	-	-
20	-	6 092	8 213	10 790	13 871	17 506	21 747	-	-
30	-	4 988	6 874	9 166	11 908	15 146	18 931	23 318	28 372
40	-	-	5 587	7 585	9 980	12 815	16 137	19 995	24 445
50	-	-	-	6 063	8 103	10 529	13 382	16 704	20 544
60	-	-	-	-	6 295	8 305	10 682	13 464	16 689

Power input in W

10	-	2 364	2 555	2 676	2 714	-	-	-	-
20	-	2 582	2 871	3 104	3 268	3 351	3 341	-	-
30	-	2 723	3 112	3 459	3 750	3 975	4 119	4 173	4 123
40	-	-	3 282	3 744	4 164	4 531	4 832	5 056	5 190
50	-	-	-	3 962	4 513	5 024	5 484	5 879	6 199
60	-	-	-	-	4 801	5 458	6 077	6 646	7 153

Current consumption in A

10	-	8.27	8.44	8.48	8.36	-	-	-	-
20	-	6.67	6.97	7.19	7.31	7.30	7.11	-	-
30	-	5.94	6.32	6.69	7.00	7.23	7.34	7.30	7.08
40	-	-	6.26	6.71	7.17	7.60	7.96	8.23	8.36
50	-	-	-	7.01	7.56	8.14	8.71	9.23	9.67
60	-	-	-	-	7.92	8.60	9.33	10.06	10.77

Mass flow in kg/h

10	-	118	159	209	268	-	-	-	-
20	-	107	147	195	252	320	401	-	-
30	-	96	134	179	234	300	379	471	581
40	-	-	119	163	215	279	355	445	552
50	-	-	-	145	195	256	329	416	520
60	-	-	-	-	173	231	301	385	486

Coefficient of performance (C.O.P.)

10	-	3.06	3.75	4.65	5.84	-	-	-	-
20	-	2.36	2.86	3.48	4.24	5.22	6.51	-	-
30	-	1.83	2.21	2.65	3.18	3.81	4.60	5.59	6.88
40	-	-	1.70	2.03	2.40	2.83	3.34	3.95	4.71
50	-	-	-	1.53	1.80	2.10	2.44	2.84	3.31
60	-	-	-	-	1.31	1.52	1.76	2.03	2.33

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	9 034	W
Power input	4 346	W
Current consumption	7.35	А
Mass flow	205	kg/h
C.O.P.	2.08	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 $^\circ\text{C}$, Subcooling = 0 K

Pressure switch settings		
Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)

	Sound	power	data
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oouna ponor auta		
Sound power level	83	dB(A)
With accoustic hood	77	dB(A)

Tolerance according EN12900



Maneurop reciprocating compressor. MTZ064-4

Danfoss

R449A

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

Cond. temp. in		Evaporating temperature in °C (to)									
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10		

Cooling capacity in W

10	5 362	7 261	9 626	12 504	15 942	-	-	-	-
20	4 332	6 039	8 164	10 752	13 853	17 512	21 776	-	-
30	3 369	4 875	6 749	9 040	11 793	15 055	18 875	23 298	28 372
40	2 490	3 785	5 401	7 383	9 779	12 637	16 002	19 922	24 445
50	-	2 789	4 136	5 801	7 831	10 273	13 175	16 583	20 544
60	-	-	2 973	4 311	5 965	7 983	10 411	13 298	16 689

Power input in W

10	2 114	2 364	2 555	2 676	2 714	-	-	-	-
20	2 248	2 582	2 871	3 104	3 268	3 351	3 341	-	-
30	2 303	2 723	3 112	3 459	3 750	3 975	4 119	4 173	4 123
40	2 285	2 792	3 282	3 744	4 164	4 531	4 832	5 056	5 190
50	-	2 792	3 385	3 962	4 513	5 024	5 484	5 879	6 199
60	-	-	3 424	4 119	4 801	5 458	6 077	6 646	7 153

Current consumption in A

10	8.01	8.27	8.44	8.48	8.36	-	-	-	-
20	6.33	6.67	6.97	7.19	7.31	7.30	7.11	-	-
30	5.57	5.94	6.32	6.69	7.00	7.23	7.34	7.30	7.08
40	5.48	5.84	6.26	6.71	7.17	7.60	7.96	8.23	8.36
50	-	6.10	6.51	7.01	7.56	8.14	8.71	9.23	9.67
60	-	-	6.82	7.32	7.92	8.60	9.33	10.06	10.77

Mass flow in kg/h

10	99	137	182	234	294	-	-	-	-
20	89	125	168	218	277	344	421	-	-
30	77	111	152	201	257	323	398	484	581
40	65	97	136	182	236	300	373	457	552
50	-	82	118	162	214	275	346	427	520
60	-	-	100	141	190	249	317	396	486

Coefficient of performance (C.O.P.)

10	2.54	3.07	3.77	4.67	5.87	-	-	-	-
20	1.93	2.34	2.84	3.46	4.24	5.23	6.52	-	-
30	1.46	1.79	2.17	2.61	3.14	3.79	4.58	5.58	6.88
40	1.09	1.36	1.65	1.97	2.35	2.79	3.31	3.94	4.71
50	-	1.00	1.22	1.46	1.74	2.04	2.40	2.82	3.31
60	-	-	0.87	1.05	1.24	1.46	1.71	2.00	2.33

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	8 796	W
Power input	4 346	W
Current consumption	7.35	А
Mass flow	225	kg/h
C.O.P.	2.02	

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	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power data			
Sound power level	83	dB(A)	
With accoustic hood	77	dB(A)	

Tolerance according EN12900



Maneurop reciprocating compressor. MTZ064-4

Danfoss

R452A

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

Cond. temp. in				Evapora	ting temperature i	n °C (to)			
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	-	8 494	10 887	13 779	17 215	-	-	-	-
20	-	7 263	9 463	12 103	15 223	18 869	23 090	-	-
30	-	6 041	8 025	10 387	13 167	16 407	20 151	24 449	29 360
40	-	4 832	6 576	8 637	11 054	13 864	17 108	20 828	25 073
50	-	-	5 122	6 858	8 888	11 247	13 969	17 089	20 647
60	-	-	-	5 058	6 681	8 567	10 746	13 245	16 089

Power input in W

10	-	3 168	3 475	3 764	4 043	-	-	-	-
20	-	3 145	3 477	3 778	4 055	4 317	4 573	-	-
30	-	3 182	3 579	3 931	4 246	4 532	4 799	5 054	5 306
40	-	3 234	3 737	4 180	4 572	4 922	5 239	5 531	5 807
50	-	-	3 905	4 479	4 989	5 443	5 851	6 219	6 558
60	-	-	-	4 785	5 453	6 051	6 589	7 074	7 516

Current consumption in A

10	-	9.07	9.54	9.95	10.31	-	-	-	-
20	-	7.09	7.54	7.94	8.29	8.62	8.93	-	-
30	-	6.26	6.73	7.14	7.53	7.88	8.23	8.58	8.94
40	-	6.17	6.68	7.15	7.59	8.01	8.43	8.85	9.29
50	-	-	6.98	7.53	8.06	8.58	9.10	9.63	10.19
60	-	-	-	7.88	8.53	9.17	9.83	10.50	11.20

Mass flow in kg/h

10	-	172	222	283	355	-	-	-	-
20	-	160	210	270	342	427	527	-	-
30	-	147	196	255	325	408	506	622	760
40	-	130	179	236	304	385	481	594	728
50	-	-	158	214	280	358	450	560	690
60	-	-	-	188	251	327	416	521	646

Coefficient of performance (C.O.P.)

10	-	2.68	3.13	3.66	4.26	-	-	-	-
20	-	2.31	2.72	3.20	3.75	4.37	5.05	-	-
30	-	1.90	2.24	2.64	3.10	3.62	4.20	4.84	5.53
40	-	1.49	1.76	2.07	2.42	2.82	3.27	3.77	4.32
50	-	-	1.31	1.53	1.78	2.07	2.39	2.75	3.15
60	-	-	-	1.06	1.23	1.42	1.63	1.87	2.14

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	9 977	W
Power input	4 772	W
Current consumption	7.80	А
Mass flow	292	kg/h
C.O.P.	2.09	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 $^{\circ}\text{C}$, Subcooling = 0 K

Pressure switch settings		
Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

0			
S	Sound power level	83	dB(A)
V	Vith accoustic hood	77	dB(A)
_			

Tolerance according EN12900



Maneurop reciprocating compressor. MTZ064-4

Danfoss

R452A

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

Cond. temp. in		Evaporating temperature in °C (to)							
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	6 346	8 269	10 660	13 565	17 034	-	-	-	-
20	5 182	6 952	9 132	11 771	14 916	18 614	22 912	-	-
30	4 070	5 659	7 604	9 950	12 745	16 036	19 871	24 296	29 360
40	3 017	4 401	6 083	8 110	10 529	13 387	16 733	20 612	25 073
50	2 035	3 187	4 580	6 261	8 278	10 678	13 507	16 815	20 647
60	-	2 026	3 104	4 413	6 002	7 916	10 204	12 913	16 089

Power input in W

10	2 833	3 168	3 475	3 764	4 043	-	-	-	-
20	2 772	3 145	3 477	3 778	4 055	4 317	4 573	-	-
30	2 731	3 182	3 579	3 931	4 246	4 532	4 799	5 054	5 306
40	2 665	3 234	3 737	4 180	4 572	4 922	5 239	5 531	5 807
50	2 529	3 258	3 905	4 479	4 989	5 443	5 851	6 219	6 558
60	-	3 208	4 040	4 785	5 453	6 051	6 589	7 074	7 516

Current consumption in A

10	8.53	9.07	9.54	9.95	10.31	-	-	-	-
20	6.57	7.09	7.54	7.94	8.29	8.62	8.93	-	-
30	5.74	6.26	6.73	7.14	7.53	7.88	8.23	8.58	8.94
40	5.61	6.17	6.68	7.15	7.59	8.01	8.43	8.85	9.29
50	5.76	6.40	6.98	7.53	8.06	8.58	9.10	9.63	10.19
60	-	6.51	7.21	7.88	8.53	9.17	9.83	10.50	11.20

Mass flow in kg/h

10	155	200	254	317	391	-	-	-	-
20	141	187	241	303	376	460	555	-	-
30	125	171	224	286	357	439	533	640	760
40	107	152	204	265	335	415	506	610	728
50	86	130	181	240	308	386	475	576	690
60	-	105	154	211	277	352	438	536	646

Coefficient of performance (C.O.P.)

10	2.24	2.61	3.07	3.60	4.21	-	-	-	-
20	1.87	2.21	2.63	3.12	3.68	4.31	5.01	-	-
30	1.49	1.78	2.12	2.53	3.00	3.54	4.14	4.81	5.53
40	1.13	1.36	1.63	1.94	2.30	2.72	3.19	3.73	4.32
50	0.80	0.98	1.17	1.40	1.66	1.96	2.31	2.70	3.15
60	-	0.63	0.77	0.92	1.10	1.31	1.55	1.83	2.14

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	9 407	W
Power input	4 772	W
Current consumption	7.80	A
Mass flow	322	kg/h
C.O.P.	1.97	

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	1	bar(g)
LP pump down setting	1.3	bar(g)

Sound	power	dat

83	dB(A)
77	dB(A)
	83 77

Tolerance according EN12900



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