

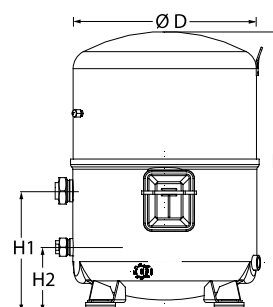
Datasheets

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



General Characteristics

Model number (on compressor nameplate)		MTZ125HU4VE
Code number for Singlepack*		MTZ125-4VI
Code number for Industrial pack**		MTZ125-4VM
Drawing number		8504010f
Suction and discharge connections		Rotolock
Suction connection		1-3/4" Rotolock
Discharge connection		1-1/4" Rotolock
Suction connection with supplied sleeve		1-1/8" 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	4	
Swept volume	215,44 cm ³ /rev	
Displacement @ Nominal speed	37.5 m ³ /h @ 2900 rpm - 45.2 m ³ /h @ 3500 rpm	
Net weight	64 kg	
Oil charge	3,9 litre, POE - 160PZ	
Maximum system test pressure Low Side / High side	25 bar(g) / 30 bar(g)	
Maximum differential test pressure	30 bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	10 kg	
Approved refrigerants	R404A, R507A, R134a, R407C, R407A, R407F	

Dimensions


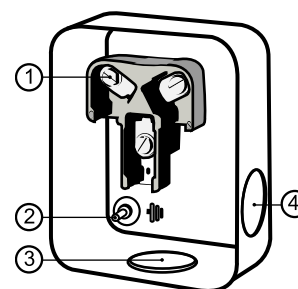
D=352 mm

H=519 mm

H1=233 mm

H2=125 mm

H3=- mm

Terminal box


IP54 (with cable gland)

1: Screw connectors 10-32 UNF x 9.5

2: Earth M4-12

3: Knock-out Ø 29 mm (1.14")

4: Knock-out Ø 25.5 mm (1.00")

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	1.57 Ω
Maximum Continuous Current (MCC)	27 A
Locked Rotor Amps (LRA)	105 A
Motor protection	Internal overload protector

Recommended Installation torques

Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Mounting bolts	50 Nm

Parts shipped with compressor

Mounting kit with grommets, bolts, nuts, sleeves and washers
Suction & Discharge solder sleeves, rotolock nuts and gaskets (shipped with rotolock version only)
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA6873), -

*Singlepack: Compressor in cardboard box

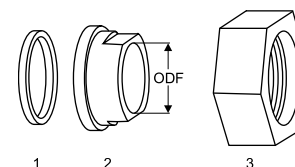
**Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

Rotolock accessories, suction side

Code no.

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Gaskets, sleeves and nuts



- 1: Gasket
2: Solder sleeve
3: Rotolock nut

Rotolock accessories, discharge side

Code no.

Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF)	8168006
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

Rotolock accessories, sets

Code no.

Angle adapter set, C02 (1-3/4"~1-1/8"), C04 (1-1/4"~3/4")	7703014
Valve set, V02 (1-3/4"~1-1/8"), V04 (1-1/4"~3/4")	7703009
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

Oil / lubricants

Code no.

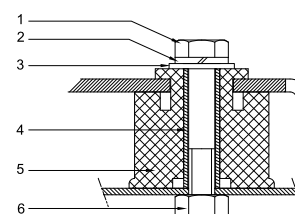
POE lubricant, 160PZ, 1 litre can	7754019
POE lubricant, 160PZ, 2.5 litre can	120Z0573

Crankcase heaters

Code no.

PTC heater 27W, CE mark, UL	120Z0459
Belt type crankcase heater, 75 W, 230 V, CE mark, UL	7773108
Belt type crankcase heater, 75 W, 400 V, CE mark, UL	7773118
Belt type crankcase heater, 75 W, 460 V, CE mark, UL	120Z0464

Mounting kit



- 1: Bolt (4x)
2: Lock washer (4x)
3: Flat washer (4x)
4: Sleeve (4x)
5: Grommet (4x)
6: Nut (4x)

Miscellaneous accessories

Code no.

Electronic soft start kit, MCI 25 C	7705007
Soft start kit with statoric resistors, prewired box, SCR03	7705001
Acoustic hood for 4 cylinder compressor	120Z0473
Oil equalisation nut	8153127

Spare parts

Code no.

Mounting kit for 4 cylinder compressor & MS, including 4 grommets, 4 bolts	8156007
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (black chloroprene)	8156145
Service kit for terminal box 96 x 115 mm, including 1 cover, 1 clamp	8156135
T block connector 52 x 57 mm	8173230

Datasheet, performance data

Maneurop reciprocating compressor. MTZ125-4

Performance data at 50 Hz, EN 12900 rating conditions

R407C

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

Cooling capacity in W

35	13 025	17 106	21 947	27 643	34 289	41 980	50 812	-	-
40	11 788	15 658	20 230	25 599	31 861	39 112	47 445	-	-
45	10 525	14 178	18 476	23 514	29 388	36 192	44 022	-	-
50	-	12 676	16 695	21 396	26 876	33 229	40 551	-	-
55	-	-	14 893	19 254	24 335	30 232	37 040	-	-
60	-	-	-	17 094	21 771	27 208	33 498	-	-
65	-	-	-	14 925	19 194	24 164	29 931	-	-

Power input in W

35	5 760	6 328	6 807	7 209	7 548	7 834	8 081	-	-
40	5 986	6 676	7 265	7 766	8 191	8 552	8 861	-	-
45	6 132	6 965	7 686	8 307	8 840	9 297	9 691	-	-
50	-	7 175	8 050	8 813	9 476	10 051	10 550	-	-
55	-	-	8 336	9 262	10 077	10 791	11 418	-	-
60	-	-	-	9 635	10 622	11 498	12 274	-	-
65	-	-	-	9 911	11 093	12 152	13 099	-	-

Current consumption in A

35	10.20	10.99	11.67	12.29	12.91	13.58	14.34	-	-
40	10.49	11.43	12.23	12.93	13.58	14.23	14.94	-	-
45	10.62	11.79	12.76	13.60	14.34	15.03	15.74	-	-
50	-	12.01	13.22	14.25	15.14	15.94	16.70	-	-
55	-	-	13.57	14.85	15.94	16.91	17.79	-	-
60	-	-	-	15.36	16.72	17.91	18.97	-	-
65	-	-	-	15.75	17.44	18.90	20.20	-	-

Mass flow in kg/h

35	283	365	461	571	698	842	1 007	-	-
40	269	351	446	555	680	822	984	-	-
45	254	335	429	537	660	800	959	-	-
50	-	318	410	517	638	776	932	-	-
55	-	-	390	495	614	749	903	-	-
60	-	-	-	470	588	721	871	-	-
65	-	-	-	444	559	689	837	-	-

Coefficient of performance (C.O.P.)

35	2.26	2.70	3.22	3.83	4.54	5.36	6.29	-	-
40	1.97	2.35	2.78	3.30	3.89	4.57	5.35	-	-
45	1.72	2.04	2.40	2.83	3.32	3.89	4.54	-	-
50	-	1.77	2.07	2.43	2.84	3.31	3.84	-	-
55	-	-	1.79	2.08	2.41	2.80	3.24	-	-
60	-	-	-	1.77	2.05	2.37	2.73	-	-
65	-	-	-	1.51	1.73	1.99	2.29	-	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	26 876	W
Power input	9 476	W
Current consumption	15.14	A
Mass flow	638	kg/h
C.O.P.	2.84	



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	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

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

All performance data +/- 5%

Datasheet, performance data
Maneurop reciprocating compressor. MTZ125-4
Performance data at 50 Hz, ARI rating conditions
R407C

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

Cooling capacity in W

35	14 020	18 390	23 566	29 648	36 737	44 930	54 328	-	-
40	12 758	16 922	21 834	27 595	34 304	42 062	50 967	-	-
45	11 464	15 418	20 062	25 496	31 822	39 139	47 549	-	-
50	-	13 885	18 257	23 361	29 299	36 172	44 082	-	-
55	-	-	16 427	21 197	26 744	33 170	40 576	-	-
60	-	-	-	19 013	24 166	30 142	37 043	-	-
65	-	-	-	16 819	21 577	27 102	33 497	-	-

Power input in W

35	5 760	6 328	6 807	7 209	7 548	7 834	8 081	-	-
40	5 986	6 676	7 265	7 766	8 191	8 552	8 861	-	-
45	6 132	6 965	7 686	8 307	8 840	9 297	9 691	-	-
50	-	7 175	8 050	8 813	9 476	10 051	10 550	-	-
55	-	-	8 336	9 262	10 077	10 791	11 418	-	-
60	-	-	-	9 635	10 622	11 498	12 274	-	-
65	-	-	-	9 911	11 093	12 152	13 099	-	-

Current consumption in A

35	10.20	10.99	11.67	12.29	12.91	13.58	14.34	-	-
40	10.49	11.43	12.23	12.93	13.58	14.23	14.94	-	-
45	10.62	11.79	12.76	13.60	14.34	15.03	15.74	-	-
50	-	12.01	13.22	14.25	15.14	15.94	16.70	-	-
55	-	-	13.57	14.85	15.94	16.91	17.79	-	-
60	-	-	-	15.36	16.72	17.91	18.97	-	-
65	-	-	-	15.75	17.44	18.90	20.20	-	-

Mass flow in kg/h

35	281	363	458	568	694	838	1 000	-	-
40	268	349	443	552	676	817	978	-	-
45	252	333	427	534	656	795	953	-	-
50	-	316	408	514	634	771	926	-	-
55	-	-	388	492	610	745	897	-	-
60	-	-	-	468	584	716	866	-	-
65	-	-	-	441	556	685	832	-	-

Coefficient of performance (C.O.P.)

35	2.43	2.91	3.46	4.11	4.87	5.73	6.72	-	-
40	2.13	2.53	3.01	3.55	4.19	4.92	5.75	-	-
45	1.87	2.21	2.61	3.07	3.60	4.21	4.91	-	-
50	-	1.94	2.27	2.65	3.09	3.60	4.18	-	-
55	-	-	1.97	2.29	2.65	3.07	3.55	-	-
60	-	-	-	1.97	2.27	2.62	3.02	-	-
65	-	-	-	1.70	1.95	2.23	2.56	-	-

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

Cooling capacity	29 788	W
Power input	10 325	W
Current consumption	16.28	A
Mass flow	671	kg/h
C.O.P.	2.89	

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

Sound power data

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

All performance data +/- 5%

Datasheet, performance data

Maneurop reciprocating compressor. MTZ125-4

Performance data at 50 Hz, EN 12900 rating conditions

R134a

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

Cooling capacity in W

35	7 530	10 170	13 372	17 207	21 748	27 065	33 231	40 318	-
40	6 673	9 182	12 222	15 865	20 182	25 244	31 124	37 892	-
45	5 869	8 229	11 089	14 521	18 595	23 383	28 955	35 385	-
50	5 123	7 314	9 976	13 178	16 990	21 484	26 732	32 804	-
55	4 439	6 444	8 888	11 842	15 374	19 556	24 459	30 153	-
60	-	5 622	7 831	10 518	13 751	17 602	22 141	27 439	-
65	-	-	-	9 210	12 127	15 628	19 784	24 666	-
70	-	-	-	-	-	13 640	17 394	21 839	-

Power input in W

35	3 493	3 954	4 366	4 712	4 970	5 121	5 146	5 023	-
40	3 581	4 082	4 545	4 950	5 278	5 509	5 622	5 599	-
45	3 626	4 174	4 693	5 164	5 568	5 885	6 094	6 177	-
50	3 627	4 227	4 809	5 353	5 840	6 249	6 560	6 754	-
55	3 580	4 240	4 891	5 515	6 090	6 598	7 017	7 330	-
60	-	4 211	4 938	5 647	6 317	6 930	7 465	7 902	-
65	-	-	-	5 747	6 520	7 244	7 900	8 468	-
70	-	-	-	-	-	7 538	8 321	9 027	-

Current consumption in A

35	7.66	8.13	8.55	8.91	9.20	9.39	9.47	9.41	-
40	7.74	8.25	8.74	9.18	9.55	9.84	10.03	10.10	-
45	7.77	8.35	8.90	9.43	9.90	10.30	10.61	10.82	-
50	7.76	8.41	9.04	9.66	10.24	10.75	11.19	11.54	-
55	7.71	8.43	9.15	9.87	10.55	11.20	11.77	12.27	-
60	-	8.40	9.22	10.04	10.85	11.63	12.35	13.00	-
65	-	-	-	10.18	11.12	12.03	12.91	13.73	-
70	-	-	-	-	-	12.41	13.45	14.45	-

Mass flow in kg/h

35	183	242	311	391	485	592	715	853	-
40	170	229	298	378	471	578	700	838	-
45	158	216	285	364	457	563	683	820	-
50	146	204	271	350	441	545	664	799	-
55	135	191	257	334	423	526	643	775	-
60	-	179	243	318	404	504	619	749	-
65	-	-	-	300	384	481	593	719	-
70	-	-	-	-	-	456	564	687	-

Coefficient of performance (C.O.P.)

35	2.16	2.57	3.06	3.65	4.38	5.28	6.46	8.03	-
40	1.86	2.25	2.69	3.21	3.82	4.58	5.54	6.77	-
45	1.62	1.97	2.36	2.81	3.34	3.97	4.75	5.73	-
50	1.41	1.73	2.07	2.46	2.91	3.44	4.07	4.86	-
55	1.24	1.52	1.82	2.15	2.52	2.96	3.49	4.11	-
60	-	1.34	1.59	1.86	2.18	2.54	2.97	3.47	-
65	-	-	-	1.60	1.86	2.16	2.50	2.91	-
70	-	-	-	-	-	1.81	2.09	2.42	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	16 990	W
Power input	5 840	W
Current consumption	10.24	A
Mass flow	441	kg/h
C.O.P.	2.91	

Pressure switch settings

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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Performance data at 50 Hz, ARI rating conditions
R134a

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

Cooling capacity in W

35	8 156	10 996	14 435	18 547	23 406	29 087	35 664	43 213	-
40	7 267	9 980	13 261	17 184	21 823	27 254	33 550	40 787	-
45	6 431	8 997	12 100	15 814	20 214	25 374	31 369	38 273	-
50	5 654	8 053	10 958	14 443	18 584	23 453	29 127	35 679	-
55	4 941	7 152	9 839	13 076	16 936	21 495	26 827	33 007	-
60	-	6 300	8 749	11 717	15 277	19 506	24 476	30 263	-
65	-	-	-	10 371	13 612	17 490	22 079	27 453	-
70	-	-	-	-	-	15 452	19 640	24 582	-

Power input in W

35	3 493	3 954	4 366	4 712	4 970	5 121	5 146	5 023	-
40	3 581	4 082	4 545	4 950	5 278	5 509	5 622	5 599	-
45	3 626	4 174	4 693	5 164	5 568	5 885	6 094	6 177	-
50	3 627	4 227	4 809	5 353	5 840	6 249	6 560	6 754	-
55	3 580	4 240	4 891	5 515	6 090	6 598	7 017	7 330	-
60	-	4 211	4 938	5 647	6 317	6 930	7 465	7 902	-
65	-	-	-	5 747	6 520	7 244	7 900	8 468	-
70	-	-	-	-	-	7 538	8 321	9 027	-

Current consumption in A

35	7.66	8.13	8.55	8.91	9.20	9.39	9.47	9.41	-
40	7.74	8.25	8.74	9.18	9.55	9.84	10.03	10.10	-
45	7.77	8.35	8.90	9.43	9.90	10.30	10.61	10.82	-
50	7.76	8.41	9.04	9.66	10.24	10.75	11.19	11.54	-
55	7.71	8.43	9.15	9.87	10.55	11.20	11.77	12.27	-
60	-	8.40	9.22	10.04	10.85	11.63	12.35	13.00	-
65	-	-	-	10.18	11.12	12.03	12.91	13.73	-
70	-	-	-	-	-	12.41	13.45	14.45	-

Mass flow in kg/h

35	182	240	309	389	482	589	711	848	-
40	169	228	296	376	469	575	696	833	-
45	157	215	283	363	454	560	679	815	-
50	145	203	270	348	438	542	660	794	-
55	134	190	256	332	421	523	639	771	-
60	-	178	241	316	402	502	615	744	-
65	-	-	-	299	382	479	589	715	-
70	-	-	-	-	-	454	561	683	-

Coefficient of performance (C.O.P.)

35	2.33	2.78	3.31	3.94	4.71	5.68	6.93	8.60	-
40	2.03	2.44	2.92	3.47	4.13	4.95	5.97	7.28	-
45	1.77	2.16	2.58	3.06	3.63	4.31	5.15	6.20	-
50	1.56	1.91	2.28	2.70	3.18	3.75	4.44	5.28	-
55	1.38	1.69	2.01	2.37	2.78	3.26	3.82	4.50	-
60	-	1.50	1.77	2.07	2.42	2.81	3.28	3.83	-
65	-	-	-	1.80	2.09	2.41	2.79	3.24	-
70	-	-	-	-	-	2.05	2.36	2.72	-

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

Cooling capacity	19 067	W
Power input	6 289	W
Current consumption	10.80	A
Mass flow	466	kg/h
C.O.P.	3.03	

Pressure switch settings

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With acoustic 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

All performance data +/- 5%

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Datasheet, performance data

Maneurop reciprocating compressor. MTZ125-4

Performance data at 50 Hz, EN 12900 rating conditions

R404A

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

Cooling capacity in W

30	7 283	9 943	13 245	17 267	22 089	27 791	34 451	42 148	50 963
35	6 328	8 755	11 770	15 453	19 884	25 142	31 306	38 455	46 669
40	5 457	7 649	10 377	13 721	17 760	22 574	28 242	34 842	42 455
45	4 660	6 616	9 057	12 061	15 708	20 078	25 248	31 300	38 311
50	3 927	5 648	7 800	10 464	13 719	17 643	22 316	27 818	34 227
55	-	4 734	6 598	8 921	11 782	15 261	19 436	24 387	30 194
60	-	3 865	5 440	7 422	9 889	12 922	16 599	20 999	26 202

Power input in W

30	5 064	5 716	6 320	6 867	7 350	7 764	8 100	8 351	8 510
35	5 125	5 849	6 533	7 168	7 748	8 266	8 714	9 086	9 374
40	5 154	5 949	6 711	7 433	8 108	8 729	9 289	9 780	10 195
45	5 159	6 023	6 863	7 671	8 439	9 162	9 831	10 440	10 981
50	5 147	6 079	6 995	7 887	8 747	9 570	10 348	11 073	11 740
55	-	6 124	7 114	8 088	9 040	9 962	10 847	11 687	12 477
60	-	6 164	7 228	8 284	9 325	10 344	11 335	12 289	13 201

Current consumption in A

30	9.46	10.24	11.02	11.76	12.43	13.00	13.45	13.75	13.87
35	9.55	10.40	11.26	12.10	12.89	13.59	14.19	14.65	14.94
40	9.61	10.54	11.50	12.44	13.35	14.19	14.93	15.56	16.03
45	9.64	10.65	11.70	12.76	13.79	14.78	15.68	16.48	17.14
50	9.61	10.72	11.87	13.05	14.22	15.35	16.42	17.40	18.25
55	-	10.73	12.00	13.30	14.61	15.90	17.14	18.30	19.36
60	-	10.67	12.06	13.49	14.95	16.40	17.82	19.18	20.44

Mass flow in kg/h

30	229	306	397	505	630	774	939	1 127	1 338
35	214	289	378	483	605	746	908	1 093	1 301
40	200	273	359	461	581	719	878	1 059	1 264
45	188	257	341	440	557	692	847	1 025	1 226
50	176	243	324	420	533	665	817	992	1 189
55	-	230	307	400	510	639	788	958	1 152
60	-	218	292	382	489	614	759	926	1 116

Coefficient of performance (C.O.P.)

30	1.44	1.74	2.10	2.51	3.01	3.58	4.25	5.05	5.99
35	1.23	1.50	1.80	2.16	2.57	3.04	3.59	4.23	4.98
40	1.06	1.29	1.55	1.85	2.19	2.59	3.04	3.56	4.16
45	0.90	1.10	1.32	1.57	1.86	2.19	2.57	3.00	3.49
50	0.76	0.93	1.12	1.33	1.57	1.84	2.16	2.51	2.92
55	-	0.77	0.93	1.10	1.30	1.53	1.79	2.09	2.42
60	-	0.63	0.75	0.90	1.06	1.25	1.46	1.71	1.98

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

Cooling capacity	15 708	W
Power input	8 439	W
Current consumption	13.79	A
Mass flow	557	kg/h
C.O.P.	1.86	



Pressure switch settings

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

Sound power data

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

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

Datasheet, performance data

Maneurop reciprocating compressor. MTZ125-4

Performance data at 50 Hz, ARI rating conditions

R404A

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

Cooling capacity in W

30	8 108	11 039	14 666	19 073	24 344	30 560	37 806	46 162	55 712
35	7 121	9 819	13 161	17 231	22 113	27 890	34 646	42 462	51 423
40	6 221	8 686	11 743	15 476	19 969	25 307	31 574	38 853	47 226
45	5 401	7 633	10 404	13 800	17 906	22 806	28 586	35 329	43 119
50	4 652	6 651	9 138	12 198	15 917	20 383	25 680	31 893	39 106
55	-	5 736	7 939	10 666	14 005	18 041	22 863	28 554	35 202
60	-	4 886	6 812	9 213	12 179	15 798	20 159	25 349	31 453

Power input in W

30	5 064	5 716	6 320	6 867	7 350	7 764	8 100	8 351	8 510
35	5 125	5 849	6 533	7 168	7 748	8 266	8 714	9 086	9 374
40	5 154	5 949	6 711	7 433	8 108	8 729	9 289	9 780	10 195
45	5 159	6 023	6 863	7 671	8 439	9 162	9 831	10 440	10 981
50	5 147	6 079	6 995	7 887	8 747	9 570	10 348	11 073	11 740
55	-	6 124	7 114	8 088	9 040	9 962	10 847	11 687	12 477
60	-	6 164	7 228	8 284	9 325	10 344	11 335	12 289	13 201

Current consumption in A

30	9.46	10.24	11.02	11.76	12.43	13.00	13.45	13.75	13.87
35	9.55	10.40	11.26	12.10	12.89	13.59	14.19	14.65	14.94
40	9.61	10.54	11.50	12.44	13.35	14.19	14.93	15.56	16.03
45	9.64	10.65	11.70	12.76	13.79	14.78	15.68	16.48	17.14
50	9.61	10.72	11.87	13.05	14.22	15.35	16.42	17.40	18.25
55	-	10.73	12.00	13.30	14.61	15.90	17.14	18.30	19.36
60	-	10.67	12.06	13.49	14.95	16.40	17.82	19.18	20.44

Mass flow in kg/h

30	228	304	395	502	626	769	933	1 119	1 329
35	213	287	376	480	602	742	903	1 086	1 292
40	199	271	357	459	577	715	872	1 052	1 255
45	187	256	339	438	553	688	842	1 018	1 218
50	175	242	322	417	530	661	812	985	1 181
55	-	228	306	398	507	635	783	952	1 145
60	-	216	291	380	486	610	754	920	1 109

Coefficient of performance (C.O.P.)

30	1.60	1.93	2.32	2.78	3.31	3.94	4.67	5.53	6.55
35	1.39	1.68	2.01	2.40	2.85	3.37	3.98	4.67	5.49
40	1.21	1.46	1.75	2.08	2.46	2.90	3.40	3.97	4.63
45	1.05	1.27	1.52	1.80	2.12	2.49	2.91	3.38	3.93
50	0.90	1.09	1.31	1.55	1.82	2.13	2.48	2.88	3.33
55	-	0.94	1.12	1.32	1.55	1.81	2.11	2.44	2.82
60	-	0.79	0.94	1.11	1.31	1.53	1.78	2.06	2.38

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

Cooling capacity	17 906	W
Power input	8 439	W
Current consumption	13.79	A
Mass flow	553	kg/h
C.O.P.	2.12	

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	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

Sound power data

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

All performance data +/- 5%

