

Reciprocating Compressors

Datasheets

Maneurop[®] Reciprocating compressors MT / MTZ / MPZ / NTZ



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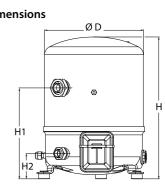
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Datasheet, technical data

Maneurop reciprocating compressor, MT080-4

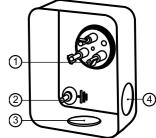
General Characteristics

Model number (on compressor nameplate)		MT80HP4A
Code number for Industrial pack**		MT80-4M
Drawing number		8502014e
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		None
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		Schrader
IPR valve		30 bar / 8 bar
Cylinders	2	!
Swept volume	135,78 c	m3/rev
Displacement @ Nominal speed	23.6 m3/h @ 2900 rpm -	28.5 m3/h @ 3500 rpm
Net weight	40	kg
Oil charge	1,8 litre, Mir	neral - 160P
Maximum system test pressure Low Side / High side	25 bar(g) /	30 bar(g)
Maximum differential test pressure	30 k	oar
Maximum number of starts per hour	12	2
Refrigerant charge limit	5 k	g
Approved refrigerants	R22, R417	'A-160PZ



88 mm 13 mm -265 mm 74 mm

Terminal box



Motor protection

Maximum Continuous Current (MCC)

Locked Rotor Amps (LRA)

Electrical Characteristics

Nominal voltage

Voltage range

Recommended Installation torques

Winding resistance (between phases) +/- 7% at 25°C

Oil sight glass	0 Nm		
Power connections / Earth connection	Nm / 2 Nm		
Mounting bolts	15 Nm	IP55 (with
		1:	S

380-400V/3/50Hz - 460V/3/60Hz

340-440 V @ 50Hz - 414-506 V @ 60Hz

1.9 Ω

18 A

80 A

Internal overload protector

Parts shipped with compressor

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

th cable gland)

- Spade connectors 1/4"
- 2: Earth M4-12
 - Knock-out Ø 21 mm (0.83")
 - Hole Ø 21 mm (0.83'')
- 4:

3:



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Datasheet, accessories and spare parts

Maneurop reciprocating compressor, MT080-4

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	Gaskets, sleeves and nuts
Gasket, 1-3/4"	8156132	
Rotolock accessories, discharge side	Code no.	
Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008	
Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF)	8168006	
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029	
Gasket, 1-1/4"	8156131	1 2 3
Rotolock accessories, sets	Code no.	1: Gasket
Angle adapter set, C02 (1-3/4"~1-1/8"), C04 (1-1/4"~3/4")	7703014	2: Solder sleeve
Valve set, V02 (1-3/4"~1-1/8"), V04 (1-1/4"~3/4")	7703009	3: Rotolock nut
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009	
Oil / lubricants	Code no.	
Mineral oil, 160P, 2 litre can	7754001	
Mineral oil, 160P, 5 litre can	7754002	
Crankcase heaters	Code no.	Mounting kit
PTC heater 27W	120Z0459	
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	7773107	1
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	7773117	
Belt type crankcase heater, 65 W, 460 V, CE mark, UL	120Z0466	
Miscellaneous accessories	Code no.	4
Electronic soft start kit, MCI 15 C	7705006	
Soft start kit with statoric resistors, prewired box, SCR01	7702003	
Acoustic hood for 2 cylinder compressor	7755002	
Spare parts	Code no.	
Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts	8156001	1: Bolt (3x)
Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp	8156134	2: Lock washer (3x)
		3: Flat washer (3x)

4: Sleeve (3x)

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



Maneurop reciprocating compressor. MT080-4

Performance data at 50 Hz, EN 12900 rating conditions

			Evener	ting tomporation	a in °C (ta)			
_25	-20	_15	-	ating temperature		5	10	15
-20	-20	-10	-10	-5	0	3	10	10
n W								
5 199	7 162	9 479	12 189	15 329	18 939	23 058	27 724	32 977
4 617	6 510	8 736	11 333	14 340	17 795	21 738	26 206	31 239
4 106	5 916	8 038	10 510	13 371	16 658	20 412	24 670	29 471
3 671	5 383	7 387	9 719	12 419	15 525	19 074	23 106	27 659
-	4 928	6 801	8 982	11 509	14 421	17 754	21 549	25 843
-	-	6 285	8 301	10 642	13 345	16 449	19 992	24 013
-	-	-	7 681	9 822	12 303	15 163	18 440	22 172
-	-	-	-	9 070	11 317	13 922	16 921	20 353
2 936	3 341	3 745	4 138	4 509	4 848	5 144	5 389	5 570
								5 954
			1					6 373
								6 829
-								7 324
-			1					7 860
								8 437
	-		1					9 058
-		-	1 -	0744	1 352	1 370	0.020	9 000
tion in A					_		1	
6.01	6.43	6.88	7.35	7.81	8.25	8.65	8.98	9.24
6.18	6.62	7.11	7.61	8.12	8.61	9.07	9.47	9.80
6.36	6.84	7.36	7.91	8.47	9.02	9.54	10.02	10.43
6.56	7.08	7.64	8.24	8.86	9.48	10.07	10.63	11.14
-	7.35	7.96	8.62	9.31	10.00	10.67	11.32	11.92
-	-	8.32	9.05	9.81	10.58	11.34	12.08	12.78
-	-	-	9.53	10.37	11.22	12.08	12.93	13.74
-	-	-	-	10.99	11.94	12.90	13.86	14.78
112	154	201	255	217	296	465	552	652
								642
			-	1				630
								616
			-	1				600
								584 567
-	-	-	211	1				550
-	-	-	-	201	520	300	404	550
ormance (C.C).P.)		1	1			1	
1.77	2.14	2.53	2.95	3.40	3.91	4.48	5.14	5.92
1.49	1.85	2.22	2.60	3.02	3.48	3.99	4.57	5.25
1.26	1.60	1.94	2.29	2.67	3.08	3.53	4.04	4.62
1.06	1.38	1.69	2.01	2.34	2.71	3.10	3.55	4.05
-	1.19	1.47	1.75	2.05	2.37	2.71	3.10	3.53
-	-	1.28	1.53	1.79	2.06	2.36	2.69	3.06
-	-	-	1.33	1.55	1.78	2.04	2.32	2.63
-	-	-	-	1.34	1.54	1.75	1.99	2.25
nce at to = 5°	°C. to = 50 °C				Pressure switch	settings		
1100 at 10 - 0		W					27.7	bar(g)
	6 542	Ŵ				•	0.2	bar(g)
on	10.67	A			LP pump down se	•	0.9	bar(g)
	422	kg/h				-		
	2.71				Sound power dat	а		
	2.71							
perature at de					Sound power level With accoustic hoo		0 0	dB(A) dB(A)
	4 617 4 106 3 671 - - - - - 2 936 3 097 3 271 3 459 - - - - - - - - - - - - -	n W 5 199 7 162 4 617 6 510 4 106 5 916 3 671 5 383 - 4 928 2 936 3 341 3 097 3 516 3 271 3 705 3 459 3 912 - 4 138 -	n W 5 199 7 162 9 479 4 617 6 510 8 736 4 106 5 916 8 038 3 671 5 383 7 387 - 4 928 6 801 - - 6 285 - - - - - - - - - - - - - - - - - - - - - 3 097 3 516 3 937 3 271 3 705 4 147 3 459 3 912 4 377 - 4 138 4 628 - - - - - - - - - - - - - - - - - - - - - - - -	-25 -20 -15 -10 n W 5 199 7 162 9 479 12 189 4 617 6 510 8 736 11 133 4 106 5 916 8 038 10 510 3 671 5 383 7 387 9 719 - 4 928 6 801 8 982 - - 6 285 8 301 - - - 7 681 - - - - - 2 936 3 341 3 745 4 138 3 097 3 516 3 897 4 351 3 271 3 705 4 147 4 585 3 459 3 912 4 377 4 843 - - 4 138 4 628 5 124 - - - 5 768 - - - - - - 6.01 6.43 6.88 7.35 6.18 6.62 7.11 7.61 6.56	-25 -20 -15 -10 -5 n W 5199 7 162 9 479 12 189 15 529 4 617 6 510 8 736 11 333 14 340 4 106 5 916 8 038 10 510 13 371 3 671 5 383 7 387 9 719 12 419 - 4 928 6 801 8 982 11 509 - - 6 285 8 301 10 642 - - - 7 681 9 622 - - - 9 070 2 936 3 341 3 745 4 138 4 509 3 097 3 516 3 937 4 351 4 778 3271 3 705 4 147 4 585 5 011 3 459 3 912 4 377 4 843 5 299 - 4 138 4 628 5 124 5 615 - - 5 768 6 336 - - - - 5 768	-25 -20 -15 -10 -5 0 nW 5 199 7 162 9 479 12 189 15 329 18 939 4 617 6 510 8 736 11 333 14 340 17 795 4 617 6 5916 8 038 10 510 13 371 16 658 3 671 5 383 7 387 9 719 12 419 15 525 - 4 928 6 801 8 982 11 509 14 421 - - 6 265 8 301 10 642 13 345 - - - 7 681 9 822 12 303 - - - 9 070 11 317 2 936 3 341 3 745 4 138 4 509 4 848 3 097 3 516 3 937 4 351 4 746 5 117 3 459 3 912 4 377 4 843 5 299 5 737 - 4 138 4 628 5 124 5 615 6 091 - -<	25 20 -15 -10 -5 0 5 nW 5199 7.162 9.479 12.189 15.329 18.939 23.058 417 6.510 8.736 11.333 14.9340 17.795 21.738 4106 5.916 8.038 10.510 13.371 16.658 20.412 3 671 5.383 7.387 9.719 12.419 15.525 19.074 - 4.928 6.801 8.982 11.509 14.421 17.754 - - 6.265 8.301 10.642 13.345 16.4421 - - - 7.681 9.822 12.303 15.163 3.097 3.516 3.937 4.361 4.748 5.117 5.448 3.097 3.516 3.937 4.843 5.299 5.737 6.144 - - 4.903 5.432 5.615 6.091 6.642 - - - <	-25 -20 -15 -10 -5 0 5 10 nW 5190 7 162 9 479 12 189 15 529 16 659 23 066 27 724 4107 6 510 8 738 11 333 14 340 17 795 21 738 26 206 4106 5 916 8 038 10 510 13 371 16 658 20 412 24 470 3 671 5 383 7 387 9 719 12 149 15 520 10 074 23 106 - - 6 288 8 01 10 642 13 346 16 449 19 902 - - - 7 681 9 622 12 2030 15 163 18 440 - - - 9 070 11 317 13 922 16 821 2 938 3 341 3 745 4 138 4 509 4 648 5 144 5 389 3 067 3 516 3 937 4 331 4 746 5 117 5 448 5 730 3 459 3

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Maneurop reciprocating compressor. MT080-4

Performance data at 50 Hz, ARI rating conditions

Cond. temp. in		Evaporating temperature in °C (to)							
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacity	in W								
30	5 520	7 599	10 050	12 912	16 227	20 035	24 375	29 289	34 816
35	4 921	6 933	9 295	12 048	15 232	18 888	23 055	27 775	33 086
40	4 393	6 323	8 583	11 213	14 252	17 742	21 722	26 233	31 315
45	3 947	5 782	7 925	10 417	13 298	16 607	20 386	24 675	29 514
50	-	5 319	7 332	9 672	12 380	15 496	19 060	23 112	27 693
55	-	-	6 815	8 989	11 510	14 418	17 753	21 554	25 864
60	-	-	-	8 379	10 699	13 385	16 476	20 014	24 037
65	-	-	-	-	9 958	12 407	15 241	18 500	22 225
Power input in W	,				1				
30	2 936	3 341	3 745	4 138	4 509	4 848	5 144	5 389	5 570
35	3 097	3 516	3 937	4 351	4 748	5 117	5 448	5 730	5 954
40	3 271	3 705	4 147	4 585	5 011	5 412	5 780	6 104	6 373
45	3 459	3 912	4 377	4 843	5 299	5 737	6 144	6 512	6 829
50	-	4 138	4 628	5 124	5 615	6 091	6 542	6 956	7 324
55	-	-	4 903	5 432	5 960	6 478	6 973	7 438	7 860

Current consumption in A

60 65

30	6.01	6.43	6.88	7.35	7.81	8.25	8.65	8.98	9.24
35	6.18	6.62	7.11	7.61	8.12	8.61	9.07	9.47	9.80
40	6.36	6.84	7.36	7.91	8.47	9.02	9.54	10.02	10.43
45	6.56	7.08	7.64	8.24	8.86	9.48	10.07	10.63	11.14
50	-	7.35	7.96	8.62	9.31	10.00	10.67	11.32	11.92
55	-	-	8.32	9.05	9.81	10.58	11.34	12.08	12.78
60	-	-	-	9.53	10.37	11.22	12.08	12.93	13.74
65	-	-	-	-	10.99	11.94	12.90	13.86	14.78

6 336

6 744

6 897

7 352

7 442

7 948

7 958

8 520

8 437

9 058

5 768

Mass flow in kg/h

30	113	153	200	254	315	384	462	550	648
35	104	145	192	246	307	376	453	541	638
40	96	137	184	237	298	366	443	530	626
45	90	131	177	229	289	356	432	517	612
50	-	125	170	222	280	346	420	503	597
55	-	-	166	215	272	336	408	489	580
60	-	-	-	210	265	326	396	475	564
65	-	-	-	-	259	318	386	462	547

Coefficient of performance (C.O.P.)

30	1.88	2.27	2.68	3.12	3.60	4.13	4.74	5.44	6.25
35	1.59	1.97	2.36	2.77	3.21	3.69	4.23	4.85	5.56
40	1.34	1.71	2.07	2.45	2.84	3.28	3.76	4.30	4.91
45	1.14	1.48	1.81	2.15	2.51	2.89	3.32	3.79	4.32
50	-	1.29	1.58	1.89	2.20	2.54	2.91	3.32	3.78
55	-	-	1.39	1.65	1.93	2.23	2.55	2.90	3.29
60	-	-	-	1.45	1.69	1.94	2.21	2.51	2.85
65	-	-	-	-	1.48	1.69	1.92	2.17	2.45

Nominal performance at to = 7.2 °C, tc = 54.4 °C						
Cooling capacity	19 534	W				
Power input	7 126	W				
Current consumption	11.58	Α				
Mass flow	444	kg/h				
C.O.P.	2.74					

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	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

All performance data +/- 5%

Pressure switch settings

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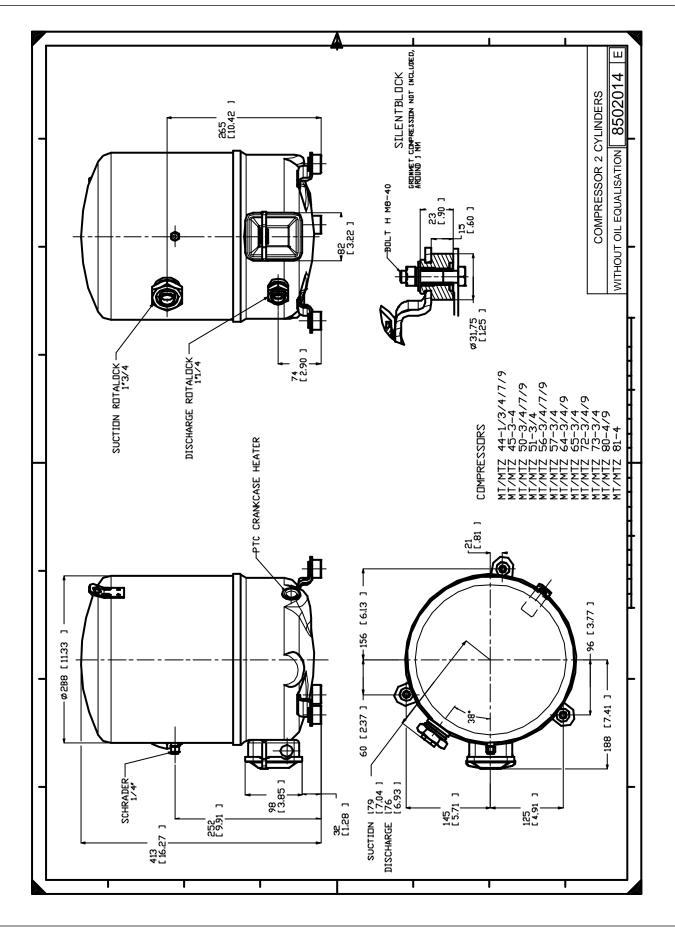




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Datasheet, drawing

Maneurop scroll compressor



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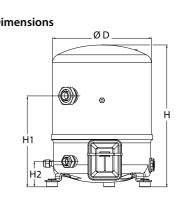
Datasheet, technical data

Maneurop reciprocating compressor, MT080-4

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General Characteristics

Model number (on compressor nameplate)	MT80HP4AVE
Code number for Singlepack*	MT80-4VI
Code number for Industrial pack**	MT80-4VM
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	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	2
Swept volume	135,78 cm3/rev
Displacement @ Nominal speed	23.6 m3/h @ 2900 rpm - 28.5 m3/h @ 3500 rpm
Net weight	40 kg
Oil charge	1,8 litre, Mineral - 160P
Maximum system test pressure Low Side / High side	25 bar(g) / 30 bar(g)
Maximum differential test pressure	30 bar
Maximum number of starts per hour	12
Refrigerant charge limit	5 kg
Approved refrigerants	R22, R417A-160PZ



=288 mm =413 mm l=265 mm 2=74 mm

erminal box

(1) 2 (4) 3

Electrical Characteristics inal voltar

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	1.9 Ω
Maximum Continuous Current (MCC)	18 A
Locked Rotor Amps (LRA)	80 A
Motor protection	Internal overload protector

Recommended Installation torques

Oil sight glass	50 Nm	
Power connections / Earth connection	Nm / 2 Nm	IP55
Mounting bolts	15 Nm	1:
mounting boils	15 1111	· _

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)

(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'')



Danfoss

Datasheet, accessories and spare parts

Maneurop reciprocating compressor, MT080-4

Solder steve, P02 (1-3/4* Rotolock, 1-1/8* ODF) B133004 Angle adapter, C02 (1-3/4* Rotolock, 1-1/8* ODF) B168005 Botolock valve, V02 (1-3/4* Rotolock, 1-1/8* ODF) B153004 Solder steve, P04 (1-1/4* Rotolock, 3/4* ODF) B156002 Angle adapter, C01 (1-1/4* Rotolock, 3/4* ODF) B168005 Rotolock valve, V04 (1-1/4* Rotolock, 3/4* ODF) B168005 Rotolock accessories, sets Code no. Rotolock accessories, sets Code no. Angle adapter, C02 (1-3/4*-1-1/8*), C04 (1-1/4*-3/4*) T703014 Yabe set, 1*, 1-1/4*, 1-1/8*), C04 (1-1/4*-3/4*) T703014 Solder steve, C02 (1-3/4*-1-1/8*), C04 (1-1/4*-3/4*) T703010 Gasket 5, 1*, 1-1/4*, 1-1/8*), C04 (1-1/4*-3/4*) T703010 Gasket 5, 1*, 1-1/4*, 1-1/8*, C05 gaskets black & white B156009 Oil / lubricants Code no. Mineral oil, 160P, 2 litre can T754001 Mineral oil, 160P, 2 litre can T754002 Mineral oil, 160P, 2 litre can T7754002 Mineral oil, 160P, 2 litre can T7754002 Mineral oil, 160P, 2 litre can T7754002 Mineral oil, 160P, 2 litre can T7755002 Oil equaliastion nut T705006	Rotolock accessories, suction side	Code no.	
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF) 8168028 Gaskets, sleeves and nuts Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF) 8153008 8168002 Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF) 8158008 8168002 Rotolock accessories, discharge side Code no. 8158008 Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF) 8158008 8168029 Rotolock accessories, sets Code no. 1 2 3 Rotolock accessories, sets Code no. 1 2 3 Rotolock accessories, sets Code no. 1 2 3 Rotolock accessories, code no. 7754001 7754001 3 3 Oil / lubricants Code no. 1 2 3 3 Crankcase heater of W, 400 V, CE mark, UL 12020459 8 4 4 Belt type crankcase heater, 65 W, 230 V, CE mark, UL 12020459 4 </td <td>Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)</td> <td>8153004</td> <td></td>	Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004	
Gasket, 1-3/4" 8156132 Rotolock accessories, discharge side Code no. Solder sleeve, PO4 (1-1/4" Rotolock, 3/4" ODF) 8153008 Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF) 8168029 Gasket, 1-1/4" 8156131 Rotolock accessories, sets Code no. Image adapter, C04 (1-1/4" Rotolock, 3/4" ODF) 8168029 Gasket, 1-1/4" 8156131 Rotolock accessories, sets Code no. Image adapter set, C02 (1-3/4"1-1/8"), C04 (1-1/4"-3/4") 7703014 Yalve set, V02 (1-3/4"1-1/8"), V04 (1-1/4"-3/4") 7754001 Mineral oil, 160P, 2 litre can 7754001 Mineral oil, 160P, 2 litre can 7754001 Mineral oil, 160P, 2 litre can 7773107 PTC heater 27W 12020459 Miscellaneous accessories Code no. Eletronic soft star	Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005	
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) 8168006 Gasket, 1-1/4" 8165131 Rotolock accessories, sets Code no. Angle adapter set, C02 (1-3/4"-1-1/8"), C04 (1-1/4"-3/4") 7703014 Yalve 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. Mineral oil, 160P, 2 litre can 7754002 Mineral oil, 160P, 2 litre can 7754002 PC chacter 27W 12020459 Belt type crankcase heater, 65 W, 230 V, CE mark, UL 7773107 Belt type crankcase heater, 65 W, 460 V, CE mark, UL 7705006 Soft stark kit with statoric resistors, prewired box, SCR01 7705006 Accusatic hood for 2 cylinder compressor 7705006 Oil equalisation nut 8156001 Solder slasets (lack & white) 8156001 Solder slasets (lack & white) 8156001 Soft stark kit, MCI 15 C	Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028	Gaskets, sleeves and nuts
Solder sleeve, PO4 (1-1/4* Rotolock, 3/4* ODF) 8153008 8158006 Angle adapter, C04 (1-1/4* Rotolock, 3/4* ODF) 8168006 Botolock valve, V04 (1-1/4* Rotolock, 3/4* ODF) 8168006 Gasket, 1-1/4* 8156131 1 Rotolock accessories, sets Code no. 1: Gasket Angle adapter set, C02 (1-3/4*-1-1/8*), C04 (1-1/4*-3/4*) 7703014 2: Solder sleeve Valve set, V02 (1-3/4*-1-1/8*), V04 (1-1/4*-3/4*) 7703009 3: Rotolock nut Gasket set, 1*, 1-1/4*, 1-3/4*, OSG gaskets black & white 8156009 3: Rotolock nut Oil / lubricants Code no. 7754001 Mineral oil, 160P, 2 litre can 7773107 773107 Bet type crankcase heater, 65 W, 230 V, CE mark, UL 7775002 1 Bet type crankcase heater, 65 W, 460 V, CE mark, UL 7770006 1 Bet type crankcase heater, 65 W, 460 V, CE mark, UL 777000 1 Bet type crankcase heater, 65 W, 200 V, CE mark, UL 7705002 1 Bet type crankcase heater, 65 W, 460 V, CE mark, UL 7705002 1 Bet type crankcase heater, 65 W, 260 I 7705002 1 Oil equalisation nut 7755002 1 2 <t< td=""><td>Gasket, 1-3/4"</td><td>8156132</td><td></td></t<>	Gasket, 1-3/4"	8156132	
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Angle adapter set, C02 (1-3/4*-1-1/8*), C04 (1-1/4*-3/4*) 7703014 2: Solder sleeve Valve set, V02 (1-3/4*-1-1/8*), V04 (1-1/4*-3/4*) 7703009 3: Rotolock nut Gasket set, 1*, 1-1/4*, 1-3/4*, OSG gaskets black & white 8156009 3: Rotolock nut Oil / lubricants Code no. Mineral oil, 160P, 2 litre can 7754001 Mineral oil, 160P, 5 litre can 7754001 PTC heater 27W 12020459 Belt type crankcase heater, 65 W, 230 V, CE mark, UL 7773117 Belt type crankcase heater, 65 W, 400 V, CE mark, UL 7773117 Belt type crankcase heater, 65 W, 460 V, CE mark, UL 12020466 Miscellaneous accessories Code no. Electronic soft stark kit, MCI 15 C 7705006 Soft stark kit, MCI 15 C 7705002 Soft stark kit with statoric resistors, prewired box, SCR01 7702003 Acoustic hood for 2 cylinder compressor 7755002 Oil equalisation nut 8156019 Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts 8156019 Oil sight glass with gaskets (black ke white) 815619 Gasket for or sights glass (black chloroprene) 815619 Service kit for terminal box 80 x 96 mm,	Gasket, 1-1/4"	8156131	1 2 3
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Belt type crankcase heater, 65 W, 460 V, CE mark, UL 120Z0466 Image: Code no. Miscellaneous accessories Code no. Image: Code no. Image: Code no. Electronic soft start kit, MCl 15 C 7705006 5 Soft start kit with statoric resistors, prewired box, SCR01 7702003 6 Acoustic hood for 2 cylinder compressor 7755002 6 Oil equalisation nut 8153127 1: Bolt (3x) Spare parts Code no. 1: Bolt (3x) Oil sight glass with gaskets (black & white) 8156001 3: Flat washer (3x) Oil sight glass (black chloroprene) 8156145 4: Sleeve (3x) Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp 8156134 5: Grommet (3x)	Belt type crankcase heater, 65 W, 400 V, CE mark, UL	7773117	
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Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts81560012: Lock washer (3x)Oil sight glass with gaskets (black & white)81560193: Flat washer (3x)Gasket for oil sight glass (black chloroprene)81561454: Sleeve (3x)Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp81561345: Grommet (3x)	Oil equalisation nut	8153127	
Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts81560012: Lock washer (3x)Oil sight glass with gaskets (black & white)81560193: Flat washer (3x)Gasket for oil sight glass (black chloroprene)81561454: Sleeve (3x)Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp81561345: Grommet (3x)	Snare narts	Code no	1: Bolt (3x)
Oil sight glass with gaskets (black & white)81560193: Flat washer (3x)Gasket for oil sight glass (black chloroprene)81561454: Sleeve (3x)Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp81561345: Grommet (3x)			. ,
Gasket for oil sight glass (black chloroprene)81561454: Sleeve (3x)Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp81561345: Grommet (3x)			ι,
Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp 8156134 5: Grommet (3x)			, ,
Service Metor terminal box of x 30 min, including 1 cover, 1 clamp		0150145	
	I Service kit for ferminal box 80 x 96 mm, including 1 cover, 1 clamp	8156134	5: Grommet (3x)



Maneurop reciprocating compressor. MT080-4

Performance data at 50 Hz, EN 12900 rating conditions

-25 199 617 106 671 -	-20 7 162 6 510 5 916	-15 9 479 8 736	-10 12 189 11 333	-5 15 329	0 18 939	5 23 058	10	15 32 977
199 617 106 671	7 162 6 510 5 916	9 479	12 189					-
199 617 106 671	6 510 5 916			15 329	18 939	23 058	27 724	32 077
199 617 106 671	6 510 5 916			15 329	18 939	23 058	27 724	32 077
106 671	5 916	8 736	11 333	-				52 511
671			11 333	14 340	17 795	21 738	26 206	31 239
	I	8 038	10 510	13 371	16 658	20 412	24 670	29 471
-	5 383	7 387	9 719	12 419	15 525	19 074	23 106	27 659
	4 928	6 801	8 982	11 509	14 421	17 754	21 549	25 843
-	-	6 285	8 301	10 642	13 345	16 449	19 992	24 013
-	-	-	7 681	9 822	12 303	15 163	18 440	22 172
-	-	-	-	9 070	11 317	13 922	16 921	20 353
936	3 341	3 745	4 138	4 509	4 848	5 144	5 389	5 570
097	3 516	3 937	4 351	4 748	5 117	5 448	5 730	5 954
271	3 705	4 147	4 585	5 011	5 412	5 780	6 104	6 373
459	3 912	4 377	4 843	5 299	5 737	6 144	6 512	6 829
-	4 138	4 628	5 124	5 615	6 091	6 542	6 956	7 324
-	-	4 903	5 432	5 960	6 478	6 973	7 438	7 860
-	-		5 768	6 336	6 897	7 442	7 958	8 437
-	-	-		6 744	7 352	7 948	8 520	9 058
I	-			1 0774	1 332	070	0.020	3 000
in A								
6.01	6.43	6.88	7.35	7.81	8.25	8.65	8.98	9.24
6.18	6.62	7.11	7.61	8.12	8.61	9.07	9.47	9.80
6.36	6.84	7.36	7.91	8.47	9.02	9.54	10.02	10.43
6.56	7.08	7.64	8.24	8.86	9.48	10.07	10.63	11.14
-	7.35	7.96	8.62	9.31	10.00	10.67	11.32	11.92
-	-	8.32	9.05	9.81	10.58	11.34	12.08	12.78
-	-	-	9.53	10.37	11.22	12.08	12.93	13.74
-	-	-	-	10.99	11.94	12.90	13.86	14.78
112	154	201	255	217	296	465	552	652
								642
				1				630
-								616
				1				600
								584 567
-	-	_	211	1				550
-		-	-	201	520	300	404	550
ance (C.O.P.)	<u>.</u>						·	
1.77	2.14	2.53	2.95	3.40	3.91	4.48	5.14	5.92
1.49	1.85	2.22	2.60	3.02	3.48	3.99	4.57	5.25
1.26	1.60	1.94	2.29	2.67	3.08	3.53	4.04	4.62
1.06	1.38	1.69	2.01	2.34	2.71	3.10	3.55	4.05
-	1.19	1.47	1.75	2.05	2.37	2.71	3.10	3.53
-	-	1.28	1.53	1.79	2.06	2.36	2.69	3.06
-	-	-	1.33	1.55	1.78	2.04	2.32	2.63
-	-	-	-	1.34	1.54	1.75	1.99	2.25
at to = 5 °C +	c = 50 °C				Pressure switch a	ettinge		
u. 10 - 5 0, 10		W	7	Г		-	27 7	bar(g)
	6 542	Ŵ				•	0.2	bar(g)
						•	0.9	bar(g)
	10.67							
	10.67 422	kg/h						
				F	Sound power data			
ature at dew po	422 2.71			[Sound power data Sound power level With accoustic hoo		0	dB(A) dB(A)
1 1 1	113 105 97 91 - - - - - - - - 1.77 1.49 1.26 1.06 -	113 154 105 146 97 138 91 131 - 126 - - - - - - - - - - - - - - - - - - 1.77 2.14 1.49 1.85 1.26 1.60 1.06 1.38 - 1.19 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	113 154 201 105 146 193 97 138 185 91 131 178 - 126 171 - - 166 - - - - - - - - - - - - - - - - - - ance (C.O.P.) 1.77 2.14 2.53 1.49 1.85 2.22 1.26 1.60 1.94 1.06 1.38 1.69 - 1.19 1.47 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	113 154 201 255 105 146 193 247 97 138 185 239 91 131 178 230 - 126 171 223 - - 166 216 - - 211 - - - - 211 - - - - ance (C.O.P.) - - - 1.77 2.14 2.53 2.95 1.49 1.85 2.22 2.60 1.26 1.60 1.94 2.29 1.06 1.38 1.69 2.01 - - 1.28 1.53 - - 1.28 1.53 - - - - at to = 5 °C, tc = 50 °C W 6 542	113 154 201 255 317 105 146 193 247 308 97 138 185 239 299 91 131 178 230 290 - 126 171 223 281 - - 166 216 273 - - - 261 ance (C.O.P.) 1.77 2.14 2.53 2.95 3.40 1.49 1.85 2.22 2.60 3.02 1.26 1.60 1.94 2.29 2.67 1.06 1.38 1.69 2.01 2.34 - 1.19 1.47 1.75 2.05 - - - 1.33 1.55 - - 1.33 1.55 1.79 - - - 1.34 1.55 - - - 1.34 1.55 - - - 1.34 1.55 - - -	113 154 201 255 317 386 105 146 193 247 308 378 97 138 185 239 299 368 91 131 178 230 290 358 - 126 171 223 281 348 - - 166 216 273 338 - - 126 171 223 281 348 - - 166 216 273 338 - - - 261 320 ance (C.O.P.) 177 2.14 2.53 2.95 3.40 3.91 1.49 1.85 2.22 2.60 3.02 3.48 1.26 1.60 1.94 2.29 2.67 3.08 1.26 1.60 1.94 2.29 2.67 3.08 1.06 1.38 1.69 2.01 2.34 2.71 - 1.19 1.47 1.75 2.05 2.37	113 154 201 255 317 386 465 105 146 193 247 308 378 456 97 138 185 239 299 368 446 91 131 178 230 290 358 434 - 126 171 223 281 348 422 - - 166 216 273 338 410 - - - 211 266 328 399 - - - 261 320 388 ance (C.O.P.) 1.77 2.14 2.53 2.95 3.40 3.91 4.48 1.49 1.85 2.22 2.60 3.02 3.48 3.99 1.26 1.60 1.94 2.29 2.67 3.08 3.53 1.06 1.38 1.69 2.01 2.34 2.71 3.10 - 1.19 1.47 1.75 2.05 2.37 2.71	113 154 201 255 317 386 465 553 105 146 193 247 308 378 456 544 97 138 185 239 299 368 446 533 91 131 178 230 290 358 434 520 - 126 171 223 281 348 422 506 - - 166 216 273 338 410 492 - - - 166 216 273 338 410 492 - - - 261 320 388 464 ance (C.O.P.) 1.77 2.14 2.53 2.95 3.40 3.91 4.48 5.14 1.49 1.85 2.22 2.60 3.02 3.48 3.99 4.57 1.26 1.60 1.94 2.29 2.67 3.08 3.53 4.04 1.06 1.38 1.69 2.01 2.34

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Maneurop reciprocating compressor. MT080-4

Performance data at 50 Hz, ARI rating conditions

Cond. temp. in	Evaporating temperature in °C (to)									
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15	
Cooling capacity	in W									
30	5 520	7 599	10 050	12 912	16 227	20 035	24 375	29 289	34 816	
35	4 921	6 933	9 295	12 048	15 232	18 888	23 055	27 775	33 086	
40	4 393	6 323	8 583	11 213	14 252	17 742	21 722	26 233	31 315	
45	3 947	5 782	7 925	10 417	13 298	16 607	20 386	24 675	29 514	
50	-	5 319	7 332	9 672	12 380	15 496	19 060	23 112	27 693	
55	-	-	6 815	8 989	11 510	14 418	17 753	21 554	25 864	
60	-	-	-	8 379	10 699	13 385	16 476	20 014	24 037	
65	-	-	-	-	9 958	12 407	15 241	18 500	22 225	
Power input in W	,				1		1	1		
30	2 936	3 341	3 745	4 138	4 509	4 848	5 144	5 389	5 570	
35	3 097	3 516	3 937	4 351	4 748	5 117	5 448	5 730	5 954	
40	3 271	3 705	4 147	4 585	5 011	5 412	5 780	6 104	6 373	
45	3 459	3 912	4 377	4 843	5 299	5 737	6 144	6 512	6 829	
50	-	4 138	4 628	5 124	5 615	6 091	6 542	6 956	7 324	
55	-	-	4 903	5 432	5 960	6 478	6 973	7 438	7 860	

Current consumption in A

60 65

30	6.01	6.43	6.88	7.35	7.81	8.25	8.65	8.98	9.24
35	6.18	6.62	7.11	7.61	8.12	8.61	9.07	9.47	9.80
40	6.36	6.84	7.36	7.91	8.47	9.02	9.54	10.02	10.43
45	6.56	7.08	7.64	8.24	8.86	9.48	10.07	10.63	11.14
50	-	7.35	7.96	8.62	9.31	10.00	10.67	11.32	11.92
55	-	-	8.32	9.05	9.81	10.58	11.34	12.08	12.78
60	-	-	-	9.53	10.37	11.22	12.08	12.93	13.74
65	-	-	-	-	10.99	11.94	12.90	13.86	14.78

6 336

6 744

6 897

7 352

7 442

7 948

7 958

8 520

8 437

9 058

5 768

Mass flow in kg/h

30	113	153	200	254	315	384	462	550	648
35	104	145	192	246	307	376	453	541	638
40	96	137	184	237	298	366	443	530	626
45	90	131	177	229	289	356	432	517	612
50	-	125	170	222	280	346	420	503	597
55	-	-	166	215	272	336	408	489	580
60	-	-	-	210	265	326	396	475	564
65	-	-	-	-	259	318	386	462	547

Coefficient of performance (C.O.P.)

30	1.88	2.27	2.68	3.12	3.60	4.13	4.74	5.44	6.25
35	1.59	1.97	2.36	2.77	3.21	3.69	4.23	4.85	5.56
40	1.34	1.71	2.07	2.45	2.84	3.28	3.76	4.30	4.91
45	1.14	1.48	1.81	2.15	2.51	2.89	3.32	3.79	4.32
50	-	1.29	1.58	1.89	2.20	2.54	2.91	3.32	3.78
55	-	-	1.39	1.65	1.93	2.23	2.55	2.90	3.29
60	-	-	-	1.45	1.69	1.94	2.21	2.51	2.85
65	-	-	-	-	1.48	1.69	1.92	2.17	2.45

Nominal performance at to = 7.2 °C, tc = 54.4 °C								
Cooling capacity	19 534	W						
Power input	7 126	W						
Current consumption	11.58	Α						
Mass flow	444	kg/h						
C.O.P.	2.74							

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	0	dB(A)	
With accoustic hood	0	dB(A)	
With accoustic noou	0		

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%

Pressure switch settings

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Maneurop scroll compressor

