

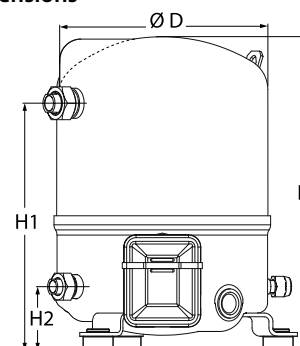
Datasheets

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



**General Characteristics**

Model number (on compressor nameplate)		<b>MTZ32JF4BVE</b>
Code number for Singlepack*		MTZ32-4VI
Code number for Industrial pack**		MTZ32-4VM
Drawing number		8501025f
Suction and discharge connections		Rotolock
Suction connection		1-1/4" Rotolock
Discharge connection		1" Rotolock
Suction connection with supplied sleeve		5/8" ODF
Discharge connection with supplied sleeve		1/2" ODF
Oil sight glass		Threaded
Oil equalisation connection		3/8" flare SAE
Oil drain connection		None
LP gauge port		Schrader
IPR valve		None
Cylinders	1	
Swept volume	53.86 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	9.4 m <sup>3</sup> /h @ 2900 rpm - 11.3 m <sup>3</sup> /h @ 3500 rpm	
Net weight	24 kg	
Oil charge	0.95 litre, POE - 175PZ	
Maximum system test pressure Low Side / High side	25 bar(g) / 30 bar(g)	
Maximum differential test pressure	30 bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	2.5 kg	
Approved refrigerants	R404A, R134a, R407A/C/F, R448A, R449A, R452A, R513A	

**Dimensions**


D=224 mm

H=356 mm

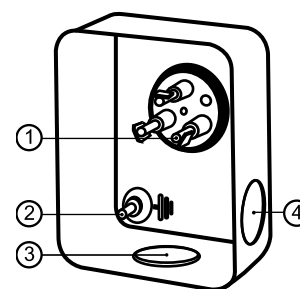
H1=263 mm

H2=68 mm

H3= mm

**Electrical Characteristics**

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-440 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25°C	6.45 Ω
Maximum Continuous Current (MCC)	8 A
Locked Rotor Amps (LRA)	25 A
Motor protection	Internal overload protector

**Terminal box**


IP55 (with cable gland)

1: Spade connectors 1/4"

2: Earth M4-12

3: Knock-out Ø 21 mm (0.83")

4: Hole Ø 21 mm (0.83")

**Recommended Installation torques**

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

**Parts shipped with compressor**

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

**Approvals** : CE certified, UL certified (file SA6873), CCC certified

\*Singlepack: Compressor in cardboard box

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

**Rotolock accessories, suction side**

**Code no.**

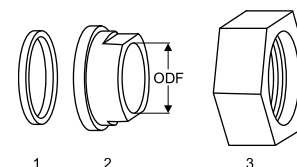
Solder sleeve, P09 (1-1/4" Rotolock, 5/8" ODF)	8153011
Rotolock valve, V09 (1-1/4" Rotolock, 5/8" ODF)	8168033
Gasket, 1-1/4"	8156131

**Gaskets, sleeves and nuts**

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130



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

**Rotolock accessories, sets**

**Code no.**

Valve set, V09 (1-1/4"~5/8"), V06 (1"~1/2")	7703005
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**

**Code no.**

POE lubricant, 175PZ, 1 litre can	120Z0638
POE lubricant, 175PZ, 2.5 litre can	120Z0639

**Crankcase heaters**

**Code no.**

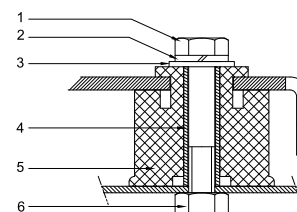
PTC heater 27W, CE mark, UL	120Z0459
Belt type crankcase heater, 54 W, 230 V, CE mark, UL	7773106
Belt type crankcase heater, 54 W, 400 V, UL	7773013

**Mounting kit**

**Miscellaneous accessories**

**Code no.**

Electronic soft start kit, MCI 15 C	7705006
Acoustic hood for 1 cylinder compressor	120Z0575
Oil equalisation nut	8153127



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

**Spare parts**

**Code no.**

Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts	8156001
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (black chloroprene)	8156145
Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp	8156134

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

## 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	3 135	4 200	5 458	6 931	8 644	10 620	12 882	-	-
40	2 809	3 815	4 997	6 377	7 980	9 827	11 943	-	-
45	2 480	3 428	4 534	5 821	7 313	9 032	11 003	-	-
50	-	3 040	4 071	5 265	6 646	8 238	10 063	-	-
55	-	-	3 609	4 710	5 981	7 445	9 125	-	-
60	-	-	-	4 159	5 320	6 656	8 191	-	-
65	-	-	-	3 614	4 664	5 873	7 263	-	-

### Power input in W

35	1 449	1 615	1 749	1 857	1 942	2 011	2 068	-	-
40	1 487	1 689	1 856	1 991	2 101	2 190	2 262	-	-
45	1 503	1 748	1 953	2 124	2 265	2 381	2 476	-	-
50	-	1 786	2 038	2 250	2 429	2 579	2 704	-	-
55	-	-	2 103	2 365	2 588	2 779	2 940	-	-
60	-	-	-	2 463	2 738	2 976	3 181	-	-
65	-	-	-	2 539	2 873	3 165	3 421	-	-

### Current consumption in A

35	3.29	3.47	3.64	3.78	3.91	4.01	4.10	-	-
40	3.34	3.57	3.78	3.95	4.11	4.24	4.35	-	-
45	3.38	3.66	3.91	4.13	4.33	4.50	4.65	-	-
50	-	3.72	4.04	4.32	4.57	4.79	4.98	-	-
55	-	-	4.14	4.49	4.80	5.08	5.33	-	-
60	-	-	-	4.65	5.04	5.39	5.71	-	-
65	-	-	-	4.79	5.27	5.70	6.09	-	-

### Mass flow in kg/h

35	68	90	115	143	176	213	255	-	-
40	64	86	110	138	170	207	248	-	-
45	60	81	105	133	164	200	240	-	-
50	-	76	100	127	158	192	231	-	-
55	-	-	94	121	151	184	222	-	-
60	-	-	-	114	144	176	213	-	-
65	-	-	-	107	136	168	203	-	-

### Coefficient of performance (C.O.P.)

35	2.16	2.60	3.12	3.73	4.45	5.28	6.23	-	-
40	1.89	2.26	2.69	3.20	3.80	4.49	5.28	-	-
45	1.65	1.96	2.32	2.74	3.23	3.79	4.44	-	-
50	-	1.70	2.00	2.34	2.74	3.19	3.72	-	-
55	-	-	1.72	1.99	2.31	2.68	3.10	-	-
60	-	-	-	1.69	1.94	2.24	2.58	-	-
65	-	-	-	1.42	1.62	1.86	2.12	-	-

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

Cooling capacity	6 646	W
Power input	2 429	W
Current consumption	4.57	A
Mass flow	158	kg/h
C.O.P.	2.74	



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	1.4	bar(g)
LP pump down setting	1.7	bar(g)

### Sound power data

Sound power level	74	dB(A)
With acoustic hood	67	dB(A)

Tolerance according EN12900

**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	3 375	4 515	5 860	7 434	9 261	11 366	13 773	-	-
40	3 040	4 124	5 393	6 875	8 591	10 568	12 830	-	-
45	2 701	3 728	4 923	6 312	7 919	9 768	11 884	-	-
50	-	3 330	4 452	5 748	7 245	8 967	10 939	-	-
55	-	-	3 980	5 186	6 573	8 168	9 996	-	-
60	-	-	-	4 626	5 905	7 374	9 058	-	-
65	-	-	-	4 072	5 244	6 587	8 129	-	-

**Power input in W**

35	1 449	1 615	1 749	1 857	1 942	2 011	2 068	-	-
40	1 487	1 689	1 856	1 991	2 101	2 190	2 262	-	-
45	1 503	1 748	1 953	2 124	2 265	2 381	2 476	-	-
50	-	1 786	2 038	2 250	2 429	2 579	2 704	-	-
55	-	-	2 103	2 365	2 588	2 779	2 940	-	-
60	-	-	-	2 463	2 738	2 976	3 181	-	-
65	-	-	-	2 539	2 873	3 165	3 421	-	-

**Current consumption in A**

35	3.29	3.47	3.64	3.78	3.91	4.01	4.10	-	-
40	3.34	3.57	3.78	3.95	4.11	4.24	4.35	-	-
45	3.38	3.66	3.91	4.13	4.33	4.50	4.65	-	-
50	-	3.72	4.04	4.32	4.57	4.79	4.98	-	-
55	-	-	4.14	4.49	4.80	5.08	5.33	-	-
60	-	-	-	4.65	5.04	5.39	5.71	-	-
65	-	-	-	4.79	5.27	5.70	6.09	-	-

**Mass flow in kg/h**

35	68	89	114	142	175	212	254	-	-
40	64	85	110	137	169	205	246	-	-
45	59	81	105	132	163	198	238	-	-
50	-	76	100	126	157	191	230	-	-
55	-	-	94	120	150	183	221	-	-
60	-	-	-	114	143	175	212	-	-
65	-	-	-	107	135	167	202	-	-

**Coefficient of performance (C.O.P.)**

35	2.33	2.80	3.35	4.00	4.77	5.65	6.66	-	-
40	2.04	2.44	2.91	3.45	4.09	4.83	5.67	-	-
45	1.80	2.13	2.52	2.97	3.50	4.10	4.80	-	-
50	-	1.86	2.18	2.55	2.98	3.48	4.05	-	-
55	-	-	1.89	2.19	2.54	2.94	3.40	-	-
60	-	-	-	1.88	2.16	2.48	2.85	-	-
65	-	-	-	1.60	1.83	2.08	2.38	-	-

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

Cooling capacity	7 335	W
Power input	2 655	W
Current consumption	4.90	A
Mass flow	165	kg/h
C.O.P.	2.76	

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	74	dB(A)
With acoustic hood	67	dB(A)

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions**
**R134a**

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

**Cooling capacity in W**

35	941	1 350	2 530	3 357	4 379	5 623	7 118	8 891	10 969
40	806	1 196	2 306	3 082	4 041	5 212	6 622	8 299	10 271
45	669	1 039	2 076	2 799	3 694	4 790	6 115	7 695	9 560
50	534	882	1 843	2 511	3 341	4 361	5 599	7 081	8 836
55	-	-	1 611	2 223	2 986	3 929	5 077	6 460	8 105
60	-	-	-	1 937	2 632	3 495	4 554	5 836	7 369
65	-	-	-	-	2 282	3 064	4 032	5 211	6 631
75	-	-	-	-	-	-	3 004	3 975	5 163

**Power input in W**

35	744	889	1 173	1 299	1 408	1 494	1 551	1 574	1 557
40	763	913	1 214	1 353	1 476	1 579	1 655	1 699	1 706
45	770	927	1 248	1 400	1 540	1 661	1 758	1 825	1 858
50	765	930	1 274	1 442	1 599	1 740	1 859	1 951	2 011
55	-	-	1 292	1 476	1 652	1 815	1 958	2 077	2 165
60	-	-	-	1 504	1 700	1 886	2 055	2 201	2 319
65	-	-	-	-	1 742	1 952	2 148	2 324	2 474
75	-	-	-	-	-	-	2 324	2 563	2 780

**Current consumption in A**

35	2.90	3.02	3.25	3.35	3.44	3.51	3.56	3.57	3.56
40	2.91	3.04	3.29	3.41	3.52	3.61	3.68	3.72	3.73
45	2.92	3.05	3.33	3.47	3.59	3.70	3.80	3.87	3.91
50	2.91	3.05	3.36	3.51	3.66	3.80	3.92	4.02	4.10
55	-	-	3.37	3.55	3.72	3.88	4.03	4.17	4.28
60	-	-	-	3.57	3.77	3.96	4.14	4.31	4.46
65	-	-	-	-	3.80	4.03	4.24	4.44	4.63
75	-	-	-	-	-	-	4.40	4.68	4.95

**Mass flow in kg/h**

35	24	34	60	78	99	125	156	191	233
40	22	31	58	75	96	122	152	187	228
45	19	29	55	72	93	118	147	182	222
50	16	26	52	68	89	113	142	176	216
55	-	-	48	64	84	108	137	170	209
60	-	-	-	60	80	103	131	163	202
65	-	-	-	-	74	97	124	156	194
75	-	-	-	-	-	-	109	139	175

**Coefficient of performance (C.O.P.)**

35	1.27	1.52	2.16	2.58	3.11	3.76	4.59	5.65	7.05
40	1.06	1.31	1.90	2.28	2.74	3.30	4.00	4.88	6.02
45	0.87	1.12	1.66	2.00	2.40	2.88	3.48	4.22	5.15
50	0.70	0.95	1.45	1.74	2.09	2.51	3.01	3.63	4.39
55	-	-	1.25	1.51	1.81	2.16	2.59	3.11	3.74
60	-	-	-	1.29	1.55	1.85	2.22	2.65	3.18
65	-	-	-	-	1.31	1.57	1.88	2.24	2.68
75	-	-	-	-	-	-	1.29	1.55	1.86

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

Cooling capacity	4 361	W
Power input	1 740	W
Current consumption	3.80	A
Mass flow	113	kg/h
C.O.P.	2.51	

**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)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 50 Hz, ARI rating conditions**
**R134a**

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

**Cooling capacity in W**

35	1 023	1 465	2 736	3 624	4 720	6 052	7 650	9 541	11 756
40	882	1 305	2 507	3 344	4 377	5 636	7 149	8 947	11 056
45	737	1 141	2 270	3 054	4 023	5 207	6 636	8 337	10 340
50	-	976	2 029	2 759	3 662	4 770	6 112	7 715	9 611
55	-	-	1 788	2 461	3 298	4 328	5 581	7 086	8 872
60	-	-	-	2 164	2 932	3 883	5 046	6 451	8 127
65	-	-	-	-	-	3 440	4 512	5 816	7 380
75	-	-	-	-	-	-	3 457	4 555	5 896

**Power input in W**

35	744	889	1 173	1 299	1 408	1 494	1 551	1 574	1 557
40	763	913	1 214	1 353	1 476	1 579	1 655	1 699	1 706
45	770	927	1 248	1 400	1 540	1 661	1 758	1 825	1 858
50	-	930	1 274	1 442	1 599	1 740	1 859	1 951	2 011
55	-	-	1 292	1 476	1 652	1 815	1 958	2 077	2 165
60	-	-	-	1 504	1 700	1 886	2 055	2 201	2 319
65	-	-	-	-	-	1 952	2 148	2 324	2 474
75	-	-	-	-	-	-	2 324	2 563	2 780

**Current consumption in A**

35	2.90	3.02	3.25	3.35	3.44	3.51	3.56	3.57	3.56
40	2.91	3.04	3.29	3.41	3.52	3.61	3.68	3.72	3.73
45	2.92	3.05	3.33	3.47	3.59	3.70	3.80	3.87	3.91
50	-	3.05	3.36	3.51	3.66	3.80	3.92	4.02	4.10
55	-	-	3.37	3.55	3.72	3.88	4.03	4.17	4.28
60	-	-	-	3.57	3.77	3.96	4.14	4.31	4.46
65	-	-	-	-	-	4.03	4.24	4.44	4.63
75	-	-	-	-	-	-	4.40	4.68	4.95

**Mass flow in kg/h**

35	24	34	60	78	99	125	155	190	232
40	22	31	57	75	96	121	151	186	227
45	19	29	55	72	92	117	147	181	221
50	-	26	51	68	88	113	142	176	215
55	-	-	48	64	84	108	136	169	208
60	-	-	-	60	79	102	130	163	201
65	-	-	-	-	-	96	123	155	192
75	-	-	-	-	-	-	108	139	174

**Coefficient of performance (C.O.P.)**

35	1.38	1.65	2.33	2.79	3.35	4.05	4.93	6.06	7.55
40	1.16	1.43	2.07	2.47	2.97	3.57	4.32	5.26	6.48
45	0.96	1.23	1.82	2.18	2.61	3.14	3.77	4.57	5.57
50	-	1.05	1.59	1.91	2.29	2.74	3.29	3.95	4.78
55	-	-	1.38	1.67	2.00	2.38	2.85	3.41	4.10
60	-	-	-	1.44	1.72	2.06	2.46	2.93	3.50
65	-	-	-	-	-	1.76	2.10	2.50	2.98
75	-	-	-	-	-	-	1.49	1.78	2.12

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

Cooling capacity	4 908	W
Power input	1 871	W
Current consumption	3.94	A
Mass flow	120	kg/h
C.O.P.	2.62	

**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)

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

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# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

## 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	1 757	2 453	3 305	4 335	5 561	7 003	8 682	10 616	12 826
35	1 510	2 155	2 945	3 899	5 036	6 376	7 940	9 747	11 816
40	1 271	1 864	2 589	3 464	4 509	5 745	7 191	8 867	10 793
45	1 044	1 582	2 238	3 031	3 983	5 111	6 437	7 980	9 759
50	828	1 308	1 893	2 603	3 457	4 476	5 679	7 085	8 715
55	-	1 046	1 557	2 180	2 935	3 841	4 917	6 185	7 663
60	-	796	1 231	1 764	2 417	3 207	4 155	5 281	6 605

### Power input in W

30	1 246	1 436	1 610	1 767	1 904	2 021	2 115	2 187	2 234
35	1 243	1 456	1 653	1 834	1 997	2 141	2 265	2 367	2 445
40	1 227	1 463	1 685	1 892	2 083	2 256	2 409	2 542	2 654
45	1 198	1 458	1 706	1 941	2 160	2 363	2 548	2 714	2 860
50	1 154	1 441	1 716	1 980	2 229	2 464	2 682	2 882	3 063
55	-	1 410	1 715	2 008	2 289	2 557	2 809	3 045	3 263
60	-	1 367	1 701	2 026	2 340	2 642	2 930	3 203	3 460

### Current consumption in A

30	3.06	3.27	3.49	3.71	3.91	4.08	4.20	4.27	4.26
35	3.08	3.30	3.54	3.78	4.01	4.21	4.37	4.47	4.50
40	3.08	3.32	3.59	3.86	4.12	4.36	4.57	4.72	4.80
45	3.06	3.33	3.63	3.94	4.25	4.53	4.79	4.99	5.14
50	3.00	3.31	3.65	4.01	4.36	4.70	5.02	5.28	5.49
55	-	3.25	3.64	4.05	4.46	4.86	5.24	5.58	5.86
60	-	3.13	3.57	4.04	4.52	4.99	5.44	5.86	6.22

### Mass flow in kg/h

30	55	76	99	127	159	195	237	284	337
35	51	71	95	122	153	189	230	277	329
40	47	66	90	116	147	183	224	269	321
45	42	62	84	111	141	176	216	261	312
50	37	56	79	104	134	169	208	253	303
55	-	51	73	98	127	161	199	243	292
60	-	45	66	91	119	152	190	233	281

### Coefficient of performance (C.O.P.)

30	1.41	1.71	2.05	2.45	2.92	3.47	4.10	4.85	5.74
35	1.21	1.48	1.78	2.13	2.52	2.98	3.51	4.12	4.83
40	1.04	1.27	1.54	1.83	2.16	2.55	2.98	3.49	4.07
45	0.87	1.08	1.31	1.56	1.84	2.16	2.53	2.94	3.41
50	0.72	0.91	1.10	1.31	1.55	1.82	2.12	2.46	2.85
55	-	0.74	0.91	1.09	1.28	1.50	1.75	2.03	2.35
60	-	0.58	0.72	0.87	1.03	1.21	1.42	1.65	1.91

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

Cooling capacity	3 983	W
Power input	2 160	W
Current consumption	4.25	A
Mass flow	141	kg/h
C.O.P.	1.84	



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	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	71	dB(A)
With acoustic hood	64	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

## 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	1 956	2 723	3 660	4 788	6 128	7 701	9 527	11 627	14 021
35	1 699	2 417	3 293	4 347	5 600	7 073	8 787	10 762	13 019
40	1 449	2 117	2 930	3 907	5 070	6 441	8 040	9 888	12 006
45	1 210	1 825	2 570	3 468	4 540	5 806	7 288	9 007	10 984
50	981	1 541	2 218	3 034	4 011	5 171	6 535	8 123	9 957
55	-	1 267	1 874	2 607	3 488	4 540	5 784	7 242	8 935
60	-	1 006	1 541	2 190	2 976	3 921	5 047	6 375	7 929

### Power input in W

30	1 246	1 436	1 610	1 767	1 904	2 021	2 115	2 187	2 234
35	1 243	1 456	1 653	1 834	1 997	2 141	2 265	2 367	2 445
40	1 227	1 463	1 685	1 892	2 083	2 256	2 409	2 542	2 654
45	1 198	1 458	1 706	1 941	2 160	2 363	2 548	2 714	2 860
50	1 154	1 441	1 716	1 980	2 229	2 464	2 682	2 882	3 063
55	-	1 410	1 715	2 008	2 289	2 557	2 809	3 045	3 263
60	-	1 367	1 701	2 026	2 340	2 642	2 930	3 203	3 460

### Current consumption in A

30	3.06	3.27	3.49	3.71	3.91	4.08	4.20	4.27	4.26
35	3.08	3.30	3.54	3.78	4.01	4.21	4.37	4.47	4.50
40	3.08	3.32	3.59	3.86	4.12	4.36	4.57	4.72	4.80
45	3.06	3.33	3.63	3.94	4.25	4.53	4.79	4.99	5.14
50	3.00	3.31	3.65	4.01	4.36	4.70	5.02	5.28	5.49
55	-	3.25	3.64	4.05	4.46	4.86	5.24	5.58	5.86
60	-	3.13	3.57	4.04	4.52	4.99	5.44	5.86	6.22

### Mass flow in kg/h

30	55	75	99	126	158	194	235	282	335
35	51	71	94	121	152	188	229	275	327
40	46	66	89	116	147	182	222	268	319
45	42	61	84	110	140	175	215	260	310
50	37	56	78	104	134	168	207	251	301
55	-	50	72	97	126	160	198	242	290
60	-	45	66	90	119	152	189	231	280

### Coefficient of performance (C.O.P.)

30	1.57	1.90	2.27	2.71	3.22	3.81	4.50	5.32	6.28
35	1.37	1.66	1.99	2.37	2.80	3.30	3.88	4.55	5.33
40	1.18	1.45	1.74	2.06	2.43	2.86	3.34	3.89	4.52
45	1.01	1.25	1.51	1.79	2.10	2.46	2.86	3.32	3.84
50	0.85	1.07	1.29	1.53	1.80	2.10	2.44	2.82	3.25
55	-	0.90	1.09	1.30	1.52	1.78	2.06	2.38	2.74
60	-	0.74	0.91	1.08	1.27	1.48	1.72	1.99	2.29

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

Cooling capacity	4 540	W
Power input	2 160	W
Current consumption	4.25	A
Mass flow	140	kg/h
C.O.P.	2.10	

### 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	71	dB(A)
With acoustic hood	64	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

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

## Performance data at 50 Hz, EN 12900 rating conditions

# R407A

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

### Cooling capacity in W

30	1 276	1 918	2 708	3 668	4 817	6 175	7 762	9 598	11 704
35	1 087	1 697	2 446	3 353	4 438	5 722	7 225	8 966	10 966
40	895	1 470	2 173	3 024	4 043	5 249	6 664	8 307	10 198
45	703	1 240	1 894	2 686	3 635	4 761	6 085	7 626	9 404
50	-	1 012	1 615	2 344	3 219	4 262	5 492	6 928	8 591
55	-	-	1 339	2 002	2 802	3 757	4 889	6 217	7 762
60	-	-	-	1 666	2 386	3 251	4 282	5 499	6 922

### Power input in W

30	942	1 138	1 319	1 483	1 629	1 757	1 864	1 950	2 014
35	925	1 143	1 347	1 536	1 708	1 862	1 998	2 114	2 209
40	893	1 135	1 364	1 579	1 778	1 961	2 127	2 273	2 400
45	846	1 113	1 369	1 611	1 840	2 053	2 250	2 429	2 590
50	-	1 079	1 362	1 634	1 893	2 138	2 368	2 582	2 778
55	-	-	1 344	1 647	1 938	2 216	2 481	2 730	2 964
60	-	-	-	1 650	1 975	2 288	2 589	2 876	3 148

### Current consumption in A

30	2.74	2.94	3.16	3.37	3.58	3.75	3.88	3.96	3.96
35	2.75	2.95	3.18	3.42	3.64	3.85	4.02	4.13	4.18
40	2.75	2.97	3.21	3.47	3.73	3.97	4.19	4.35	4.46
45	2.73	2.97	3.24	3.53	3.82	4.11	4.37	4.60	4.77
50	-	2.94	3.24	3.57	3.91	4.25	4.57	4.86	5.10
55	-	-	3.20	3.58	3.97	4.37	4.76	5.12	5.44
60	-	-	-	3.54	4.00	4.46	4.92	5.36	5.77

### Mass flow in kg/h

30	30	45	62	83	106	134	166	202	243
35	27	42	59	79	103	130	162	198	239
40	24	38	55	76	99	126	157	193	234
45	20	34	51	71	94	121	152	187	227
50	-	30	47	66	89	116	146	181	220
55	-	-	42	61	83	109	139	173	212
60	-	-	-	55	77	102	132	165	203

### Coefficient of performance (C.O.P.)

30	1.35	1.68	2.05	2.47	2.96	3.52	4.16	4.92	5.81
35	1.18	1.48	1.82	2.18	2.60	3.07	3.62	4.24	4.97
40	1.00	1.30	1.59	1.92	2.27	2.68	3.13	3.65	4.25
45	0.83	1.11	1.38	1.67	1.98	2.32	2.70	3.14	3.63
50	-	0.94	1.19	1.43	1.70	1.99	2.32	2.68	3.09
55	-	-	1.00	1.22	1.45	1.70	1.97	2.28	2.62
60	-	-	-	1.01	1.21	1.42	1.65	1.91	2.20

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

Cooling capacity	3 635	W
Power input	1 840	W
Current consumption	3.82	A
Mass flow	94	kg/h
C.O.P.	1.98	

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	70	dB(A)
With acoustic hood	63	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

## Performance data at 50 Hz, ARI rating conditions

## R407A

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

### Cooling capacity in W

30	1 380	2 071	2 921	3 951	5 181	6 634	8 329	10 287	12 530
35	1 183	1 843	2 652	3 630	4 799	6 179	7 791	9 656	11 796
40	980	1 607	2 372	3 295	4 398	5 702	7 228	8 997	11 030
45	776	1 367	2 083	2 948	3 982	5 207	6 644	8 314	10 237
50	-	1 127	1 793	2 596	3 558	4 701	6 045	7 613	9 424
55	-	-	1 504	2 243	3 130	4 188	5 437	6 899	8 596
60	-	-	-	1 893	2 703	3 673	4 825	6 180	7 760

### Power input in W

30	942	1 138	1 319	1 483	1 629	1 757	1 864	1 950	2 014
35	925	1 143	1 347	1 536	1 708	1 862	1 998	2 114	2 209
40	893	1 135	1 364	1 579	1 778	1 961	2 127	2 273	2 400
45	846	1 113	1 369	1 611	1 840	2 053	2 250	2 429	2 590
50	-	1 079	1 362	1 634	1 893	2 138	2 368	2 582	2 778
55	-	-	1 344	1 647	1 938	2 216	2 481	2 730	2 964
60	-	-	-	1 650	1 975	2 288	2 589	2 876	3 148

### Current consumption in A

30	2.74	2.94	3.16	3.37	3.58	3.75	3.88	3.96	3.96
35	2.75	2.95	3.18	3.42	3.64	3.85	4.02	4.13	4.18
40	2.75	2.97	3.21	3.47	3.73	3.97	4.19	4.35	4.46
45	2.73	2.97	3.24	3.53	3.82	4.11	4.37	4.60	4.77
50	-	2.94	3.24	3.57	3.91	4.25	4.57	4.86	5.10
55	-	-	3.20	3.58	3.97	4.37	4.76	5.12	5.44
60	-	-	-	3.54	4.00	4.46	4.92	5.36	5.77

### Mass flow in kg/h

30	30	45	62	82	106	133	165	201	242
35	27	42	59	79	102	130	161	197	237
40	24	38	55	75	98	125	157	192	232
45	20	34	51	71	94	121	151	186	226
50	-	30	46	66	89	115	145	180	219
55	-	-	41	61	83	109	138	172	211
60	-	-	-	55	77	102	131	164	202

### Coefficient of performance (C.O.P.)

30	1.46	1.82	2.21	2.66	3.18	3.78	4.47	5.27	6.22
35	1.28	1.61	1.97	2.36	2.81	3.32	3.90	4.57	5.34
40	1.10	1.42	1.74	2.09	2.47	2.91	3.40	3.96	4.59
45	0.92	1.23	1.52	1.83	2.16	2.54	2.95	3.42	3.95
50	-	1.04	1.32	1.59	1.88	2.20	2.55	2.95	3.39
55	-	-	1.12	1.36	1.62	1.89	2.19	2.53	2.90
60	-	-	-	1.15	1.37	1.61	1.86	2.15	2.47

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

Cooling capacity	3 982	W
Power input	1 840	W
Current consumption	3.82	A
Mass flow	94	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

### 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	70	dB(A)
With acoustic hood	63	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

## Performance data at 50 Hz, EN 12900 rating conditions

# R407F

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

### Cooling capacity in W

30	-	2 117	3 013	4 096	5 390	6 918	8 704	10 770	13 140
35	-	1 808	2 628	3 620	4 807	6 212	7 858	9 769	11 968
40	-	1 543	2 298	3 209	4 299	5 591	7 109	8 875	10 914
45	-	1 314	2 014	2 855	3 858	5 048	6 448	8 081	9 969
50	-	-	1 769	2 549	3 477	4 575	5 868	7 377	9 126
55	-	-	-	2 284	3 147	4 164	5 359	6 756	8 376
60	-	-	-	-	-	-	-	-	-

### Power input in W

30	-	1 212	1 401	1 575	1 727	1 850	1 934	1 973	1 957
35	-	1 213	1 422	1 623	1 808	1 970	2 099	2 189	2 231
40	-	1 213	1 439	1 663	1 877	2 073	2 244	2 382	2 478
45	-	1 220	1 458	1 701	1 941	2 169	2 377	2 559	2 705
50	-	-	1 488	1 747	2 008	2 264	2 506	2 728	2 920
55	-	-	-	1 807	2 086	2 365	2 638	2 896	3 132
60	-	-	-	-	-	-	-	-	-

### Current consumption in A

30	-	2.95	3.18	3.41	3.63	3.81	3.94	3.99	3.95
35	-	2.99	3.23	3.49	3.73	3.95	4.12	4.22	4.24
40	-	3.02	3.27	3.55	3.83	4.09	4.31	4.47	4.55
45	-	3.02	3.30	3.61	3.93	4.23	4.51	4.74	4.90
50	-	-	3.32	3.67	4.03	4.39	4.74	5.04	5.28
55	-	-	-	3.72	4.14	4.57	4.98	5.37	5.70
60	-	-	-	-	-	-	-	-	-

### Mass flow in kg/h

30	-	44	61	82	107	135	168	205	247
35	-	39	56	76	99	127	158	194	235
40	-	35	51	71	93	120	150	185	224
45	-	32	48	66	88	114	143	177	215
50	-	-	44	63	84	109	138	171	208
55	-	-	-	60	81	106	134	166	202
60	-	-	-	-	-	-	-	-	-

### Coefficient of performance (C.O.P.)

30	-	1.75	2.15	2.60	3.12	3.74	4.50	5.46	6.71
35	-	1.49	1.85	2.23	2.66	3.15	3.74	4.46	5.36
40	-	1.27	1.60	1.93	2.29	2.70	3.17	3.73	4.40
45	-	1.08	1.38	1.68	1.99	2.33	2.71	3.16	3.69
50	-	-	1.19	1.46	1.73	2.02	2.34	2.70	3.12
55	-	-	-	1.26	1.51	1.76	2.03	2.33	2.67
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	3 858	W
Power input	1 941	W
Current consumption	3.93	A
Mass flow	88	kg/h
C.O.P.	1.99	

### 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	70	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

## Performance data at 50 Hz, ARI rating conditions

## R407F

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

### Cooling capacity in W

30	-	2 269	3 225	4 381	5 760	7 386	9 284	11 478	13 992
35	-	1 947	2 827	3 889	5 158	6 659	8 416	10 453	12 795
40	-	1 671	2 485	3 465	4 636	6 024	7 650	9 542	11 722
45	-	1 432	2 191	3 101	4 186	5 470	6 979	8 736	10 765
50	-	-	1 939	2 790	3 800	4 993	6 394	8 028	9 920
55	-	-	-	2 523	3 470	4 584	5 891	7 415	9 180
60	-	-	-	-	-	-	-	-	-

### Power input in W

30	-	1 212	1 401	1 575	1 727	1 850	1 934	1 973	1 957
35	-	1 213	1 422	1 623	1 808	1 970	2 099	2 189	2 231
40	-	1 213	1 439	1 663	1 877	2 073	2 244	2 382	2 478
45	-	1 220	1 458	1 701	1 941	2 169	2 377	2 559	2 705
50	-	-	1 488	1 747	2 008	2 264	2 506	2 728	2 920
55	-	-	-	1 807	2 086	2 365	2 638	2 896	3 132
60	-	-	-	-	-	-	-	-	-

### Current consumption in A

30	-	2.95	3.18	3.41	3.63	3.81	3.94	3.99	3.95
35	-	2.99	3.23	3.49	3.73	3.95	4.12	4.22	4.24
40	-	3.02	3.27	3.55	3.83	4.09	4.31	4.47	4.55
45	-	3.02	3.30	3.61	3.93	4.23	4.51	4.74	4.90
50	-	-	3.32	3.67	4.03	4.39	4.74	5.04	5.28
55	-	-	-	3.72	4.14	4.57	4.98	5.37	5.70
60	-	-	-	-	-	-	-	-	-

### Mass flow in kg/h

30	-	43	61	82	106	134	167	204	246
35	-	39	56	76	99	126	157	193	233
40	-	35	51	70	93	119	149	183	223
45	-	31	47	66	88	113	142	176	214
50	-	-	44	62	84	109	137	170	207
55	-	-	-	60	81	105	133	165	201
60	-	-	-	-	-	-	-	-	-

### Coefficient of performance (C.O.P.)

30	-	1.87	2.30	2.78	3.33	3.99	4.80	5.82	7.15
35	-	1.61	1.99	2.40	2.85	3.38	4.01	4.78	5.73
40	-	1.38	1.73	2.08	2.47	2.91	3.41	4.01	4.73
45	-	1.17	1.50	1.82	2.16	2.52	2.94	3.41	3.98
50	-	-	1.30	1.60	1.89	2.21	2.55	2.94	3.40
55	-	-	-	1.40	1.66	1.94	2.23	2.56	2.93
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	4 186	W
Power input	1 941	W
Current consumption	3.93	A
Mass flow	88	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

### 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	70	dB(A)
With acoustic hood	63	dB(A)

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions**
**R134a**

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

**Cooling capacity in W**

35	941	1 350	2 530	3 357	4 379	5 623	7 118	8 891	10 969
40	806	1 196	2 306	3 082	4 041	5 212	6 622	8 299	10 271
45	669	1 039	2 076	2 799	3 694	4 790	6 115	7 695	9 560
50	534	882	1 843	2 511	3 341	4 361	5 599	7 081	8 836
55	-	-	1 611	2 223	2 986	3 929	5 077	6 460	8 105
60	-	-	-	1 937	2 632	3 495	4 554	5 836	7 369
65	-	-	-	-	2 282	3 064	4 032	5 211	6 631
75	-	-	-	-	-	-	3 004	3 975	5 163

**Power input in W**

35	744	889	1 173	1 299	1 408	1 494	1 551	1 574	1 557
40	763	913	1 214	1 353	1 476	1 579	1 655	1 699	1 706
45	770	927	1 248	1 400	1 540	1 661	1 758	1 825	1 858
50	765	930	1 274	1 442	1 599	1 740	1 859	1 951	2 011
55	-	-	1 292	1 476	1 652	1 815	1 958	2 077	2 165
60	-	-	-	1 504	1 700	1 886	2 055	2 201	2 319
65	-	-	-	-	1 742	1 952	2 148	2 324	2 474
75	-	-	-	-	-	-	2 324	2 563	2 780

**Current consumption in A**

35	2.90	3.02	3.25	3.35	3.44	3.51	3.56	3.57	3.56
40	2.91	3.04	3.29	3.41	3.52	3.61	3.68	3.72	3.73
45	2.92	3.05	3.33	3.47	3.59	3.70	3.80	3.87	3.91
50	2.91	3.05	3.36	3.51	3.66	3.80	3.92	4.02	4.10
55	-	-	3.37	3.55	3.72	3.88	4.03	4.17	4.28
60	-	-	-	3.57	3.77	3.96	4.14	4.31	4.46
65	-	-	-	-	3.80	4.03	4.24	4.44	4.63
75	-	-	-	-	-	-	4.40	4.68	4.95

**Mass flow in kg/h**

35	24	34	60	78	99	125	156	191	233
40	22	31	58	75	96	122	152	187	228
45	19	29	55	72	93	118	147	182	222
50	16	26	52	68	89	113	142	176	216
55	-	-	48	64	84	108	137	170	209
60	-	-	-	60	80	103	131	163	202
65	-	-	-	-	74	97	124	156	194
75	-	-	-	-	-	-	109	139	175

**Coefficient of performance (C.O.P.)**

35	1.27	1.52	2.16	2.58	3.11	3.76	4.59	5.65	7.05
40	1.06	1.31	1.90	2.28	2.74	3.30	4.00	4.88	6.02
45	0.87	1.12	1.66	2.00	2.40	2.88	3.48	4.22	5.15
50	0.70	0.95	1.45	1.74	2.09	2.51	3.01	3.63	4.39
55	-	-	1.25	1.51	1.81	2.16	2.59	3.11	3.74
60	-	-	-	1.29	1.55	1.85	2.22	2.65	3.18
65	-	-	-	-	1.31	1.57	1.88	2.24	2.68
75	-	-	-	-	-	-	1.29	1.55	1.86

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

Cooling capacity	4 361	W
Power input	1 740	W
Current consumption	3.80	A
Mass flow	113	kg/h
C.O.P.	2.51	

**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)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 50 Hz, ARI rating conditions**
**R134a**

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

**Cooling capacity in W**

35	1 023	1 465	2 736	3 624	4 720	6 052	7 650	9 541	11 756
40	882	1 305	2 507	3 344	4 377	5 636	7 149	8 947	11 056
45	737	1 141	2 270	3 054	4 023	5 207	6 636	8 337	10 340
50	-	976	2 029	2 759	3 662	4 770	6 112	7 715	9 611
55	-	-	1 788	2 461	3 298	4 328	5 581	7 086	8 872
60	-	-	-	2 164	2 932	3 883	5 046	6 451	8 127
65	-	-	-	-	-	3 440	4 512	5 816	7 380
75	-	-	-	-	-	-	3 457	4 555	5 896

**Power input in W**

35	744	889	1 173	1 299	1 408	1 494	1 551	1 574	1 557
40	763	913	1 214	1 353	1 476	1 579	1 655	1 699	1 706
45	770	927	1 248	1 400	1 540	1 661	1 758	1 825	1 858
50	-	930	1 274	1 442	1 599	1 740	1 859	1 951	2 011
55	-	-	1 292	1 476	1 652	1 815	1 958	2 077	2 165
60	-	-	-	1 504	1 700	1 886	2 055	2 201	2 319
65	-	-	-	-	-	1 952	2 148	2 324	2 474
75	-	-	-	-	-	-	2 324	2 563	2 780

**Current consumption in A**

35	2.90	3.02	3.25	3.35	3.44	3.51	3.56	3.57	3.56
40	2.91	3.04	3.29	3.41	3.52	3.61	3.68	3.72	3.73
45	2.92	3.05	3.33	3.47	3.59	3.70	3.80	3.87	3.91
50	-	3.05	3.36	3.51	3.66	3.80	3.92	4.02	4.10
55	-	-	3.37	3.55	3.72	3.88	4.03	4.17	4.28
60	-	-	-	3.57	3.77	3.96	4.14	4.31	4.46
65	-	-	-	-	-	4.03	4.24	4.44	4.63
75	-	-	-	-	-	-	4.40	4.68	4.95

**Mass flow in kg/h**

35	24	34	60	78	99	125	155	190	232
40	22	31	57	75	96	121	151	186	227
45	19	29	55	72	92	117	147	181	221
50	-	26	51	68	88	113	142	176	215
55	-	-	48	64	84	108	136	169	208
60	-	-	-	60	79	102	130	163	201
65	-	-	-	-	-	96	123	155	192
75	-	-	-	-	-	-	108	139	174

**Coefficient of performance (C.O.P.)**

35	1.38	1.65	2.33	2.79	3.35	4.05	4.93	6.06	7.55
40	1.16	1.43	2.07	2.47	2.97	3.57	4.32	5.26	6.48
45	0.96	1.23	1.82	2.18	2.61	3.14	3.77	4.57	5.57
50	-	1.05	1.59	1.91	2.29	2.74	3.29	3.95	4.78
55	-	-	1.38	1.67	2.00	2.38	2.85	3.41	4.10
60	-	-	-	1.44	1.72	2.06	2.46	2.93	3.50
65	-	-	-	-	-	1.76	2.10	2.50	2.98
75	-	-	-	-	-	-	1.49	1.78	2.12

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

Cooling capacity	4 908	W
Power input	1 871	W
Current consumption	3.94	A
Mass flow	120	kg/h
C.O.P.	2.62	

**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)

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

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# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

## 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	3 135	4 200	5 458	6 931	8 644	10 620	12 882	-	-
40	2 809	3 815	4 997	6 377	7 980	9 827	11 943	-	-
45	2 480	3 428	4 534	5 821	7 313	9 032	11 003	-	-
50	-	3 040	4 071	5 265	6 646	8 238	10 063	-	-
55	-	-	3 609	4 710	5 981	7 445	9 125	-	-
60	-	-	-	4 159	5 320	6 656	8 191	-	-
65	-	-	-	3 614	4 664	5 873	7 263	-	-

### Power input in W

35	1 449	1 615	1 749	1 857	1 942	2 011	2 068	-	-
40	1 487	1 689	1 856	1 991	2 101	2 190	2 262	-	-
45	1 503	1 748	1 953	2 124	2 265	2 381	2 476	-	-
50	-	1 786	2 038	2 250	2 429	2 579	2 704	-	-
55	-	-	2 103	2 365	2 588	2 779	2 940	-	-
60	-	-	-	2 463	2 738	2 976	3 181	-	-
65	-	-	-	2 539	2 873	3 165	3 421	-	-

### Current consumption in A

35	3.29	3.47	3.64	3.78	3.91	4.01	4.10	-	-
40	3.34	3.57	3.78	3.95	4.11	4.24	4.35	-	-
45	3.38	3.66	3.91	4.13	4.33	4.50	4.65	-	-
50	-	3.72	4.04	4.32	4.57	4.79	4.98	-	-
55	-	-	4.14	4.49	4.80	5.08	5.33	-	-
60	-	-	-	4.65	5.04	5.39	5.71	-	-
65	-	-	-	4.79	5.27	5.70	6.09	-	-

### Mass flow in kg/h

35	68	90	115	143	176	213	255	-	-
40	64	86	110	138	170	207	248	-	-
45	60	81	105	133	164	200	240	-	-
50	-	76	100	127	158	192	231	-	-
55	-	-	94	121	151	184	222	-	-
60	-	-	-	114	144	176	213	-	-
65	-	-	-	107	136	168	203	-	-

### Coefficient of performance (C.O.P.)

35	2.16	2.60	3.12	3.73	4.45	5.28	6.23	-	-
40	1.89	2.26	2.69	3.20	3.80	4.49	5.28	-	-
45	1.65	1.96	2.32	2.74	3.23	3.79	4.44	-	-
50	-	1.70	2.00	2.34	2.74	3.19	3.72	-	-
55	-	-	1.72	1.99	2.31	2.68	3.10	-	-
60	-	-	-	1.69	1.94	2.24	2.58	-	-
65	-	-	-	1.42	1.62	1.86	2.12	-	-

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

Cooling capacity	6 646	W
Power input	2 429	W
Current consumption	4.57	A
Mass flow	158	kg/h
C.O.P.	2.74	



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	1.4	bar(g)
LP pump down setting	1.7	bar(g)

### Sound power data

Sound power level	74	dB(A)
With acoustic hood	67	dB(A)

Tolerance according EN12900

**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	3 375	4 515	5 860	7 434	9 261	11 366	13 773	-	-
40	3 040	4 124	5 393	6 875	8 591	10 568	12 830	-	-
45	2 701	3 728	4 923	6 312	7 919	9 768	11 884	-	-
50	-	3 330	4 452	5 748	7 245	8 967	10 939	-	-
55	-	-	3 980	5 186	6 573	8 168	9 996	-	-
60	-	-	-	4 626	5 905	7 374	9 058	-	-
65	-	-	-	4 072	5 244	6 587	8 129	-	-

**Power input in W**

35	1 449	1 615	1 749	1 857	1 942	2 011	2 068	-	-
40	1 487	1 689	1 856	1 991	2 101	2 190	2 262	-	-
45	1 503	1 748	1 953	2 124	2 265	2 381	2 476	-	-
50	-	1 786	2 038	2 250	2 429	2 579	2 704	-	-
55	-	-	2 103	2 365	2 588	2 779	2 940	-	-
60	-	-	-	2 463	2 738	2 976	3 181	-	-
65	-	-	-	2 539	2 873	3 165	3 421	-	-

**Current consumption in A**

35	3.29	3.47	3.64	3.78	3.91	4.01	4.10	-	-
40	3.34	3.57	3.78	3.95	4.11	4.24	4.35	-	-
45	3.38	3.66	3.91	4.13	4.33	4.50	4.65	-	-
50	-	3.72	4.04	4.32	4.57	4.79	4.98	-	-
55	-	-	4.14	4.49	4.80	5.08	5.33	-	-
60	-	-	-	4.65	5.04	5.39	5.71	-	-
65	-	-	-	4.79	5.27	5.70	6.09	-	-

**Mass flow in kg/h**

35	68	89	114	142	175	212	254	-	-
40	64	85	110	137	169	205	246	-	-
45	59	81	105	132	163	198	238	-	-
50	-	76	100	126	157	191	230	-	-
55	-	-	94	120	150	183	221	-	-
60	-	-	-	114	143	175	212	-	-
65	-	-	-	107	135	167	202	-	-

**Coefficient of performance (C.O.P.)**

35	2.33	2.80	3.35	4.00	4.77	5.65	6.66	-	-
40	2.04	2.44	2.91	3.45	4.09	4.83	5.67	-	-
45	1.80	2.13	2.52	2.97	3.50	4.10	4.80	-	-
50	-	1.86	2.18	2.55	2.98	3.48	4.05	-	-
55	-	-	1.89	2.19	2.54	2.94	3.40	-	-
60	-	-	-	1.88	2.16	2.48	2.85	-	-
65	-	-	-	1.60	1.83	2.08	2.38	-	-

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

Cooling capacity	7 335	W
Power input	2 655	W
Current consumption	4.90	A
Mass flow	165	kg/h
C.O.P.	2.76	

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	74	dB(A)
With acoustic hood	67	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

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

# R448A

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

### Cooling capacity in W

10	-	2 899	3 768	4 860	6 207	-	-	-	-
20	-	2 585	3 373	4 357	5 565	7 029	8 780	-	-
30	-	2 226	2 931	3 803	4 871	6 164	7 712	9 548	11 709
40	-	-	2 452	3 209	4 134	5 254	6 598	8 195	10 078
50	-	-	-	2 585	3 365	4 309	5 446	6 802	8 407
60	-	-	-	-	2 570	3 338	4 267	5 382	6 707

### Power input in W

10	-	1 341	1 402	1 436	1 443	-	-	-	-
20	-	1 264	1 356	1 431	1 483	1 510	1 508	-	-
30	-	1 259	1 389	1 507	1 610	1 694	1 756	1 793	1 802
40	-	-	1 457	1 624	1 782	1 928	2 059	2 171	2 262
50	-	-	-	1 739	1 956	2 169	2 373	2 565	2 743
60	-	-	-	-	2 092	2 375	2 657	2 934	3 203

### Current consumption in A

10	-	2.51	2.65	2.76	2.85	-	-	-	-
20	-	2.67	2.80	2.93	3.03	3.10	3.13	-	-
30	-	2.82	2.97	3.13	3.28	3.41	3.50	3.54	3.52
40	-	-	3.12	3.33	3.55	3.75	3.94	4.08	4.18
50	-	-	-	3.49	3.80	4.10	4.40	4.67	4.91
60	-	-	-	-	3.98	4.42	4.85	5.27	5.66

### Mass flow in kg/h

10	-	48	62	80	102	-	-	-	-
20	-	46	60	77	99	126	158	-	-
30	-	42	56	73	94	120	151	190	237
40	-	-	51	68	87	112	142	179	224
50	-	-	-	60	79	103	131	166	208
60	-	-	-	-	69	91	118	150	191

### Coefficient of performance (C.O.P.)

10	-	2.16	2.69	3.38	4.30	-	-	-	-
20	-	2.05	2.49	3.05	3.75	4.66	5.82	-	-
30	-	1.77	2.11	2.52	3.03	3.64	4.39	5.32	6.50
40	-	-	1.68	1.98	2.32	2.73	3.20	3.77	4.46
50	-	-	-	1.49	1.72	1.99	2.29	2.65	3.07
60	-	-	-	-	1.23	1.41	1.61	1.83	2.09

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

Cooling capacity	3 753	W
Power input	1 871	W
Current consumption	3.68	A
Mass flow	84	kg/h
C.O.P.	2.01	

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 data

Sound power level	73	dB(A)
With acoustic hood	66	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

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

# R448A

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

### Cooling capacity in W

10	2 234	2 913	3 789	4 890	6 247	-	-	-	-
20	1 946	2 568	3 359	4 348	5 564	7 037	8 796	-	-
30	1 620	2 181	2 884	3 757	4 831	6 133	7 694	9 543	11 709
40	1 267	1 764	2 376	3 131	4 058	5 187	6 547	8 168	10 078
50	-	1 329	1 846	2 480	3 258	4 210	5 367	6 756	8 407
60	-	-	1 307	1 816	2 442	3 215	4 164	5 318	6 707

### Power input in W

10	1 259	1 341	1 402	1 436	1 443	-	-	-	-
20	1 156	1 264	1 356	1 431	1 483	1 510	1 508	-	-
30	1 120	1 259	1 389	1 507	1 610	1 694	1 756	1 793	1 802
40	1 112	1 285	1 457	1 624	1 782	1 928	2 059	2 171	2 262
50	-	1 301	1 519	1 739	1 956	2 169	2 373	2 565	2 743
60	-	-	1 532	1 809	2 092	2 375	2 657	2 934	3 203

### Current consumption in A

10	2.37	2.51	2.65	2.76	2.85	-	-	-	-
20	2.55	2.67	2.80	2.93	3.03	3.10	3.13	-	-
30	2.69	2.82	2.97	3.13	3.28	3.41	3.50	3.54	3.52
40	2.77	2.93	3.12	3.33	3.55	3.75	3.94	4.08	4.18
50	-	2.94	3.20	3.49	3.80	4.10	4.40	4.67	4.91
60	-	-	3.18	3.57	3.98	4.42	4.85	5.27	5.66

### Mass flow in kg/h

10	43	56	71	89	112	-	-	-	-
20	41	53	68	86	108	135	167	-	-
30	37	49	64	82	103	129	159	195	237
40	32	44	59	76	96	120	150	184	224
50	-	38	52	68	87	110	138	170	208
60	-	-	43	58	76	98	124	155	191

### Coefficient of performance (C.O.P.)

10	1.77	2.17	2.70	3.40	4.33	-	-	-	-
20	1.68	2.03	2.48	3.04	3.75	4.66	5.83	-	-
30	1.45	1.73	2.08	2.49	3.00	3.62	4.38	5.32	6.50
40	1.14	1.37	1.63	1.93	2.28	2.69	3.18	3.76	4.46
50	-	1.02	1.22	1.43	1.67	1.94	2.26	2.63	3.07
60	-	-	0.85	1.00	1.17	1.35	1.57	1.81	2.09

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

Cooling capacity	3 661	W
Power input	1 871	W
Current consumption	3.68	A
Mass flow	92	kg/h
C.O.P.	1.96	

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 level	73	dB(A)
With acoustic hood	66	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

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

# R449A

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

### Cooling capacity in W

10	-	2 904	3 774	4 866	6 212	-	-	-	-
20	-	2 590	3 379	4 363	5 571	7 035	8 784	-	-
30	-	2 232	2 937	3 810	4 878	6 170	7 717	9 551	11 709
40	-	-	2 458	3 216	4 141	5 261	6 603	8 198	10 078
50	-	-	-	2 592	3 371	4 315	5 451	6 805	8 407
60	-	-	-	-	2 577	3 344	4 272	5 385	6 707

### Power input in W

10	-	1 341	1 402	1 436	1 443	-	-	-	-
20	-	1 264	1 356	1 431	1 483	1 510	1 508	-	-
30	-	1 259	1 389	1 507	1 610	1 694	1 756	1 793	1 802
40	-	-	1 457	1 624	1 782	1 928	2 059	2 171	2 262
50	-	-	-	1 739	1 956	2 169	2 373	2 565	2 743
60	-	-	-	-	2 092	2 375	2 657	2 934	3 203

### Current consumption in A

10	-	2.51	2.65	2.76	2.85	-	-	-	-
20	-	2.67	2.80	2.93	3.03	3.10	3.13	-	-
30	-	2.82	2.97	3.13	3.28	3.41	3.50	3.54	3.52
40	-	-	3.12	3.33	3.55	3.75	3.94	4.08	4.18
50	-	-	-	3.49	3.80	4.10	4.40	4.67	4.91
60	-	-	-	-	3.98	4.42	4.85	5.27	5.66

### Mass flow in kg/h

10	-	49	64	83	106	-	-	-	-
20	-	46	61	79	101	128	162	-	-
30	-	43	57	75	96	122	154	193	241
40	-	-	52	69	89	114	145	182	228
50	-	-	-	62	81	105	134	169	213
60	-	-	-	-	71	93	121	154	195

### Coefficient of performance (C.O.P.)

10	-	2.17	2.69	3.39	4.31	-	-	-	-
20	-	2.05	2.49	3.05	3.76	4.66	5.83	-	-
30	-	1.77	2.11	2.53	3.03	3.64	4.39	5.33	6.50
40	-	-	1.69	1.98	2.32	2.73	3.21	3.78	4.46
50	-	-	-	1.49	1.72	1.99	2.30	2.65	3.07
60	-	-	-	-	1.23	1.41	1.61	1.84	2.09

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

Cooling capacity	3 760	W
Power input	1 871	W
Current consumption	3.68	A
Mass flow	86	kg/h
C.O.P.	2.01	

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 data

Sound power level	73	dB(A)
With acoustic hood	66	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

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

# R449A

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

### Cooling capacity in W

10	2 234	2 913	3 789	4 890	6 247	-	-	-	-
20	1 946	2 568	3 359	4 348	5 564	7 037	8 796	-	-
30	1 620	2 181	2 884	3 757	4 831	6 133	7 694	9 543	11 709
40	1 267	1 764	2 376	3 131	4 058	5 187	6 547	8 168	10 078
50	-	1 329	1 846	2 480	3 258	4 210	5 367	6 756	8 407
60	-	-	1 307	1 816	2 442	3 215	4 164	5 318	6 707

### Power input in W

10	1 259	1 341	1 402	1 436	1 443	-	-	-	-
20	1 156	1 264	1 356	1 431	1 483	1 510	1 508	-	-
30	1 120	1 259	1 389	1 507	1 610	1 694	1 756	1 793	1 802
40	1 112	1 285	1 457	1 624	1 782	1 928	2 059	2 171	2 262
50	-	1 301	1 519	1 739	1 956	2 169	2 373	2 565	2 743
60	-	-	1 532	1 809	2 092	2 375	2 657	2 934	3 203

### Current consumption in A

10	2.37	2.51	2.65	2.76	2.85	-	-	-	-
20	2.55	2.67	2.80	2.93	3.03	3.10	3.13	-	-
30	2.69	2.82	2.97	3.13	3.28	3.41	3.50	3.54	3.52
40	2.77	2.93	3.12	3.33	3.55	3.75	3.94	4.08	4.18
50	-	2.94	3.20	3.49	3.80	4.10	4.40	4.67	4.91
60	-	-	3.18	3.57	3.98	4.42	4.85	5.27	5.66

### Mass flow in kg/h

10	44	57	73	92	116	-	-	-	-
20	41	54	70	88	111	138	170	-	-
30	38	50	65	83	105	131	162	198	241
40	33	45	60	77	98	123	153	187	228
50	-	39	53	69	89	113	141	174	213
60	-	-	44	59	78	100	127	158	195

### Coefficient of performance (C.O.P.)

10	1.77	2.17	2.70	3.40	4.33	-	-	-	-
20	1.68	2.03	2.48	3.04	3.75	4.66	5.83	-	-
30	1.45	1.73	2.08	2.49	3.00	3.62	4.38	5.32	6.50
40	1.14	1.37	1.63	1.93	2.28	2.69	3.18	3.76	4.46
50	-	1.02	1.22	1.43	1.67	1.94	2.26	2.63	3.07
60	-	-	0.85	1.00	1.17	1.35	1.57	1.81	2.09

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

Cooling capacity	3 661	W
Power input	1 871	W
Current consumption	3.68	A
Mass flow	94	kg/h
C.O.P.	1.96	

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 level	73	dB(A)
With acoustic hood	66	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

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

## R452A

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

### Cooling capacity in W

10	-	3 329	4 252	5 387	6 754	-	-	-	-
20	-	2 946	3 797	4 833	6 074	7 540	9 253	-	-
30	-	2 508	3 276	4 203	5 306	6 605	8 120	9 875	11 895
40	-	2 028	2 703	3 508	4 462	5 583	6 890	8 402	10 141
50	-	-	2 089	2 762	3 556	4 489	5 577	6 836	8 285
60	-	-	-	1 976	2 601	3 336	4 196	5 194	6 342

### Power input in W

10	-	1 710	1 770	1 800	1 797	-	-	-	-
20	-	1 475	1 574	1 647	1 693	1 708	1 689	-	-
30	-	1 408	1 553	1 677	1 779	1 854	1 902	1 917	1 899
40	-	1 417	1 615	1 798	1 963	2 106	2 226	2 320	2 384
50	-	-	1 669	1 917	2 152	2 370	2 571	2 749	2 904
60	-	-	-	1 942	2 254	2 555	2 842	3 113	3 365

### Current consumption in A

10	-	1.79	1.80	1.82	1.84	-	-	-	-
20	-	2.56	2.61	2.67	2.73	2.77	2.79	-	-
30	-	2.97	3.07	3.19	3.31	3.43	3.52	3.57	3.57
40	-	3.10	3.28	3.48	3.69	3.90	4.08	4.23	4.34
50	-	-	3.34	3.64	3.96	4.27	4.57	4.85	5.07
60	-	-	-	3.76	4.20	4.65	5.09	5.50	5.87

### Mass flow in kg/h

10	-	68	87	111	139	-	-	-	-
20	-	65	85	108	136	170	211	-	-
30	-	61	80	103	131	164	204	251	308
40	-	55	73	96	123	155	194	240	294
50	-	-	65	86	112	143	180	224	277
60	-	-	-	73	98	127	162	204	255

### Coefficient of performance (C.O.P.)

10	-	1.95	2.40	2.99	3.76	-	-	-	-
20	-	2.00	2.41	2.93	3.59	4.42	5.48	-	-
30	-	1.78	2.11	2.51	2.98	3.56	4.27	5.15	6.26
40	-	1.43	1.67	1.95	2.27	2.65	3.09	3.62	4.25
50	-	-	1.25	1.44	1.65	1.89	2.17	2.49	2.85
60	-	-	-	1.02	1.15	1.31	1.48	1.67	1.88

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

Cooling capacity	4 016	W
Power input	2 062	W
Current consumption	3.83	A
Mass flow	118	kg/h
C.O.P.	1.95	

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 data

Sound power level	73	dB(A)
With acoustic hood	66	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

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

## R452A

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

### Cooling capacity in W

10	2 514	3 241	4 163	5 303	6 682	-	-	-	-
20	2 144	2 819	3 664	4 701	5 952	7 438	9 182	-	-
30	1 739	2 350	3 105	4 026	5 135	6 455	8 007	9 813	11 895
40	1 314	1 848	2 500	3 294	4 250	5 391	6 739	8 315	10 141
50	884	1 330	1 868	2 521	3 312	4 262	5 393	6 726	8 285
60	-	811	1 223	1 724	2 337	3 083	3 985	5 064	6 342

### Power input in W

10	1 623	1 710	1 770	1 800	1 797	-	-	-	-
20	1 354	1 475	1 574	1 647	1 693	1 708	1 689	-	-
30	1 246	1 408	1 553	1 677	1 779	1 854	1 902	1 917	1 899
40	1 207	1 417	1 615	1 798	1 963	2 106	2 226	2 320	2 384
50	1 144	1 410	1 669	1 917	2 152	2 370	2 571	2 749	2 904
60	-	1 295	1 621	1 942	2 254	2 555	2 842	3 113	3 365

### Current consumption in A

10	1.80	1.79	1.80	1.82	1.84	-	-	-	-
20	2.54	2.56	2.61	2.67	2.73	2.77	2.79	-	-
30	2.90	2.97	3.07	3.19	3.31	3.43	3.52	3.57	3.57
40	2.96	3.10	3.28	3.48	3.69	3.90	4.08	4.23	4.34
50	2.83	3.07	3.34	3.64	3.96	4.27	4.57	4.85	5.07
60	-	2.95	3.34	3.76	4.20	4.65	5.09	5.50	5.87

### Mass flow in kg/h

10	62	79	100	124	153	-	-	-	-
20	59	76	97	121	150	183	222	-	-
30	54	71	91	116	144	177	215	258	308
40	47	64	84	108	135	167	204	246	294
50	38	54	74	97	123	154	189	230	277
60	-	42	61	82	108	137	171	210	255

### Coefficient of performance (C.O.P.)

10	1.55	1.90	2.35	2.95	3.72	-	-	-	-
20	1.58	1.91	2.33	2.85	3.52	4.36	5.44	-	-
30	1.40	1.67	2.00	2.40	2.89	3.48	4.21	5.12	6.26
40	1.09	1.30	1.55	1.83	2.17	2.56	3.03	3.58	4.25
50	0.77	0.94	1.12	1.32	1.54	1.80	2.10	2.45	2.85
60	-	0.63	0.75	0.89	1.04	1.21	1.40	1.63	1.88

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

Cooling capacity	3 787	W
Power input	2 062	W
Current consumption	3.83	A
Mass flow	130	kg/h
C.O.P.	1.84	

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	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	73	dB(A)
With acoustic hood	66	dB(A)

Tolerance according EN12900

**Performance data at 60 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	3 813	4 972	6 385	8 088	10 120	12 516	15 315	-	-
40	3 564	4 656	5 978	7 566	9 457	11 687	14 294	-	-
45	3 294	4 322	5 554	7 027	8 779	10 844	13 260	-	-
50	-	3 968	5 111	6 471	8 084	9 986	12 213	-	-
55	-	-	4 650	5 898	7 374	9 113	11 153	-	-
60	-	-	-	5 308	6 647	8 225	10 078	-	-
65	-	-	-	4 699	5 903	7 320	8 986	-	-

**Power input in W**

35	1 758	1 930	2 087	2 228	2 351	2 456	2 542	-	-
40	1 855	2 051	2 233	2 397	2 544	2 671	2 779	-	-
45	1 941	2 165	2 374	2 565	2 738	2 892	3 025	-	-
50	-	2 269	2 508	2 729	2 932	3 115	3 277	-	-
55	-	-	2 632	2 887	3 123	3 338	3 532	-	-
60	-	-	-	3 036	3 308	3 559	3 788	-	-
65	-	-	-	3 173	3 485	3 775	4 043	-	-

**Current consumption in A**

35	3.11	3.29	3.46	3.62	3.78	3.91	4.03	-	-
40	3.23	3.44	3.63	3.82	3.99	4.14	4.26	-	-
45	3.32	3.57	3.81	4.02	4.22	4.39	4.53	-	-
50	-	3.69	3.97	4.23	4.47	4.67	4.84	-	-
55	-	-	4.12	4.43	4.72	4.96	5.17	-	-
60	-	-	-	4.62	4.96	5.27	5.52	-	-
65	-	-	-	4.79	5.20	5.57	5.88	-	-

**Mass flow in kg/h**

35	83	106	134	167	206	251	303	-	-
40	81	104	132	164	202	246	296	-	-
45	79	102	129	160	197	240	289	-	-
50	-	99	126	156	192	233	281	-	-
55	-	-	122	151	186	226	272	-	-
60	-	-	-	146	179	218	262	-	-
65	-	-	-	140	172	209	251	-	-

**Coefficient of performance (C.O.P.)**

35	2.17	2.58	3.06	3.63	4.30	5.10	6.03	-	-
40	1.92	2.27	2.68	3.16	3.72	4.38	5.14	-	-
45	1.70	2.00	2.34	2.74	3.21	3.75	4.38	-	-
50	-	1.75	2.04	2.37	2.76	3.21	3.73	-	-
55	-	-	1.77	2.04	2.36	2.73	3.16	-	-
60	-	-	-	1.75	2.01	2.31	2.66	-	-
65	-	-	-	1.48	1.69	1.94	2.22	-	-

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

Cooling capacity	8 084	W
Power input	2 932	W
Current consumption	4.47	A
Mass flow	192	kg/h
C.O.P.	2.76	

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	1.4	bar(g)
LP pump down setting	1.7	bar(g)

**Sound power data**

Sound power level	77	dB(A)
With acoustic hood	70	dB(A)

Tolerance according EN12900

**Performance data at 60 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	4 104	5 345	6 855	8 675	10 842	13 396	16 374	-	-
40	3 857	5 032	6 452	8 156	10 182	12 569	15 355	-	-
45	3 588	4 700	6 031	7 620	9 506	11 727	14 323	-	-
50	-	4 346	5 590	7 066	8 813	10 871	13 277	-	-
55	-	-	5 129	6 494	8 104	9 999	12 217	-	-
60	-	-	-	5 904	7 378	9 112	11 144	-	-
65	-	-	-	5 295	6 636	8 210	10 057	-	-

**Power input in W**

35	1 758	1 930	2 087	2 228	2 351	2 456	2 542	-	-
40	1 855	2 051	2 233	2 397	2 544	2 671	2 779	-	-
45	1 941	2 165	2 374	2 565	2 738	2 892	3 025	-	-
50	-	2 269	2 508	2 729	2 932	3 115	3 277	-	-
55	-	-	2 632	2 887	3 123	3 338	3 532	-	-
60	-	-	-	3 036	3 308	3 559	3 788	-	-
65	-	-	-	3 173	3 485	3 775	4 043	-	-

**Current consumption in A**

35	3.11	3.29	3.46	3.62	3.78	3.91	4.03	-	-
40	3.23	3.44	3.63	3.82	3.99	4.14	4.26	-	-
45	3.32	3.57	3.81	4.02	4.22	4.39	4.53	-	-
50	-	3.69	3.97	4.23	4.47	4.67	4.84	-	-
55	-	-	4.12	4.43	4.72	4.96	5.17	-	-
60	-	-	-	4.62	4.96	5.27	5.52	-	-
65	-	-	-	4.79	5.20	5.57	5.88	-	-

**Mass flow in kg/h**

35	82	106	133	166	205	250	302	-	-
40	81	104	131	163	201	244	295	-	-
45	79	102	128	160	196	238	287	-	-
50	-	99	125	155	191	232	279	-	-
55	-	-	121	151	185	224	270	-	-
60	-	-	-	145	178	216	260	-	-
65	-	-	-	139	171	208	250	-	-

**Coefficient of performance (C.O.P.)**

35	2.33	2.77	3.28	3.89	4.61	5.45	6.44	-	-
40	2.08	2.45	2.89	3.40	4.00	4.71	5.53	-	-
45	1.85	2.17	2.54	2.97	3.47	4.06	4.74	-	-
50	-	1.92	2.23	2.59	3.01	3.49	4.05	-	-
55	-	-	1.95	2.25	2.60	3.00	3.46	-	-
60	-	-	-	1.94	2.23	2.56	2.94	-	-
65	-	-	-	1.67	1.90	2.17	2.49	-	-

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

Cooling capacity	8 995	W
Power input	3 196	W
Current consumption	4.80	A
Mass flow	202	kg/h
C.O.P.	2.81	

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	77	dB(A)
With acoustic hood	70	dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions**
**R134a**

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

**Cooling capacity in W**

35	1 129	1 620	3 036	4 029	5 255	6 748	8 542	10 669	13 162
40	967	1 436	2 768	3 698	4 849	6 254	7 947	9 959	12 326
45	803	1 247	2 492	3 359	4 433	5 748	7 338	9 234	11 471
50	641	1 059	2 212	3 014	4 010	5 234	6 718	8 497	10 604
55	-	-	1 933	2 668	3 584	4 714	6 093	7 752	9 726
60	-	-	-	2 324	3 158	4 194	5 465	7 003	8 842
65	-	-	-	-	2 738	3 677	4 838	6 253	7 957
75	-	-	-	-	-	-	3 605	4 770	6 196

**Power input in W**

35	892	1 067	1 407	1 559	1 690	1 793	1 861	1 889	1 868
40	915	1 096	1 457	1 623	1 771	1 894	1 986	2 039	2 047
45	924	1 113	1 497	1 680	1 848	1 993	2 109	2 190	2 229
50	918	1 116	1 529	1 730	1 918	2 088	2 231	2 341	2 413
55	-	-	1 550	1 771	1 983	2 178	2 350	2 492	2 597
60	-	-	-	1 804	2 040	2 263	2 466	2 641	2 783
65	-	-	-	-	2 091	2 343	2 578	2 788	2 968
75	-	-	-	-	-	-	2 788	3 075	3 337

**Current consumption in A**

35	3.02	3.15	3.39	3.50	3.59	3.66	3.71	3.73	3.71
40	3.04	3.17	3.44	3.56	3.67	3.76	3.84	3.88	3.89
45	3.04	3.18	3.47	3.61	3.75	3.86	3.96	4.04	4.08
50	3.03	3.18	3.50	3.66	3.82	3.96	4.09	4.19	4.27
55	-	-	3.52	3.70	3.88	4.05	4.21	4.35	4.46
60	-	-	-	3.73	3.93	4.13	4.32	4.50	4.65
65	-	-	-	-	3.97	4.20	4.42	4.64	4.83
75	-	-	-	-	-	-	4.59	4.89	5.17

**Mass flow in kg/h**

35	29	40	72	94	119	150	187	230	280
40	26	38	69	90	116	146	182	224	274
45	23	35	66	87	112	141	177	219	267
50	20	31	62	82	107	136	171	212	260
55	-	-	58	77	101	130	164	204	251
60	-	-	-	72	96	124	157	196	242
65	-	-	-	-	89	116	149	187	232
75	-	-	-	-	-	-	131	167	210

**Coefficient of performance (C.O.P.)**

35	1.27	1.52	2.16	2.58	3.11	3.76	4.59	5.65	7.05
40	1.06	1.31	1.90	2.28	2.74	3.30	4.00	4.88	6.02
45	0.87	1.12	1.66	2.00	2.40	2.88	3.48	4.22	5.15
50	0.70	0.95	1.45	1.74	2.09	2.51	3.01	3.63	4.39
55	-	-	1.25	1.51	1.81	2.16	2.59	3.11	3.74
60	-	-	-	1.29	1.55	1.85	2.22	2.65	3.18
65	-	-	-	-	1.31	1.57	1.88	2.24	2.68
75	-	-	-	-	-	-	1.29	1.55	1.86

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

Cooling capacity	5 234	W
Power input	2 088	W
Current consumption	3.96	A
Mass flow	136	kg/h
C.O.P.	2.51	

**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)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 60 Hz, ARI rating conditions**
**R134a**

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

**Cooling capacity in W**

35	1 228	1 758	3 283	4 349	5 664	7 262	9 179	11 450	14 107
40	1 058	1 566	3 008	4 012	5 252	6 763	8 579	10 736	13 267
45	884	1 370	2 724	3 665	4 828	6 249	7 963	10 004	12 408
50	-	1 171	2 435	3 310	4 395	5 724	7 334	9 258	11 533
55	-	-	2 145	2 953	3 957	5 193	6 697	8 503	10 646
60	-	-	-	2 597	3 519	4 660	6 056	7 741	9 753
65	-	-	-	-	-	4 128	5 414	6 979	8 856
75	-	-	-	-	-	-	4 148	5 466	7 075

**Power input in W**

35	892	1 067	1 407	1 559	1 690	1 793	1 861	1 889	1 868
40	915	1 096	1 457	1 623	1 771	1 894	1 986	2 039	2 047
45	924	1 113	1 497	1 680	1 848	1 993	2 109	2 190	2 229
50	-	1 116	1 529	1 730	1 918	2 088	2 231	2 341	2 413
55	-	-	1 550	1 771	1 983	2 178	2 350	2 492	2 597
60	-	-	-	1 804	2 040	2 263	2 466	2 641	2 783
65	-	-	-	-	-	2 343	2 578	2 788	2 968
75	-	-	-	-	-	-	2 788	3 075	3 337

**Current consumption in A**

35	3.02	3.15	3.39	3.50	3.59	3.66	3.71	3.73	3.71
40	3.04	3.17	3.44	3.56	3.67	3.76	3.84	3.88	3.89
45	3.04	3.18	3.47	3.61	3.75	3.86	3.96	4.04	4.08
50	-	3.18	3.50	3.66	3.82	3.96	4.09	4.19	4.27
55	-	-	3.52	3.70	3.88	4.05	4.21	4.35	4.46
60	-	-	-	3.73	3.93	4.13	4.32	4.50	4.65
65	-	-	-	-	-	4.20	4.42	4.64	4.83
75	-	-	-	-	-	-	4.59	4.89	5.17

**Mass flow in kg/h**

35	28	40	72	93	119	149	186	228	278
40	26	38	69	90	115	145	181	223	272
45	23	35	66	86	111	141	176	217	265
50	-	31	62	82	106	135	170	211	258
55	-	-	57	77	101	129	163	203	250
60	-	-	-	72	95	123	156	195	241
65	-	-	-	-	-	116	148	186	231
75	-	-	-	-	-	-	130	166	209

**Coefficient of performance (C.O.P.)**

35	1.38	1.65	2.33	2.79	3.35	4.05	4.93	6.06	7.55
40	1.16	1.43	2.07	2.47	2.97	3.57	4.32	5.26	6.48
45	0.96	1.23	1.82	2.18	2.61	3.14	3.77	4.57	5.57
50	-	1.05	1.59	1.91	2.29	2.74	3.29	3.95	4.78
55	-	-	1.38	1.67	2.00	2.38	2.85	3.41	4.10
60	-	-	-	1.44	1.72	2.06	2.46	2.93	3.50
65	-	-	-	-	-	1.76	2.10	2.50	2.98
75	-	-	-	-	-	-	1.49	1.78	2.12

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

Cooling capacity	5 889	W
Power input	2 245	W
Current consumption	4.11	A
Mass flow	145	kg/h
C.O.P.	2.62	

**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)

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

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# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

## Performance data at 60 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	2 006	2 784	3 754	4 943	6 375	8 076	10 072	12 387	15 049
35	1 795	2 523	3 422	4 518	5 837	7 403	9 243	11 382	13 845
40	1 578	2 257	3 085	4 090	5 296	6 729	8 414	10 377	12 643
45	1 353	1 983	2 742	3 656	4 751	6 051	7 583	9 371	11 440
50	1 116	1 699	2 389	3 214	4 198	5 367	6 745	8 359	10 233
55	-	1 401	2 024	2 760	3 635	4 672	5 899	7 339	9 020
60	-	1 088	1 645	2 293	3 058	3 966	5 041	6 309	7 796

### Power input in W

30	1 474	1 716	1 945	2 155	2 341	2 498	2 621	2 705	2 744
35	1 501	1 767	2 021	2 258	2 472	2 658	2 812	2 927	2 999
40	1 520	1 811	2 092	2 356	2 600	2 817	3 002	3 150	3 257
45	1 523	1 841	2 150	2 444	2 718	2 967	3 185	3 368	3 510
50	1 506	1 852	2 191	2 515	2 821	3 103	3 356	3 575	3 754
55	-	1 838	2 207	2 564	2 903	3 220	3 508	3 764	3 981
60	-	1 792	2 193	2 583	2 957	3 310	3 636	3 930	4 187

### Current consumption in A

30	2.86	3.07	3.30	3.54	3.78	4.00	4.17	4.30	4.35
35	2.88	3.11	3.37	3.64	3.91	4.15	4.36	4.51	4.59
40	2.90	3.16	3.46	3.76	4.06	4.33	4.57	4.76	4.87
45	2.91	3.21	3.54	3.88	4.21	4.52	4.80	5.03	5.18
50	2.89	3.23	3.60	3.98	4.36	4.71	5.03	5.30	5.49
55	-	3.22	3.63	4.06	4.48	4.88	5.24	5.56	5.80
60	-	3.15	3.62	4.09	4.56	5.01	5.43	5.79	6.08

### Mass flow in kg/h

30	63	86	112	144	182	225	275	332	398
35	61	83	110	141	177	220	268	324	387
40	58	80	107	137	173	214	261	315	376
45	54	77	103	134	168	208	254	306	366
50	50	73	99	129	163	202	247	298	355
55	-	68	94	124	157	196	239	289	344
60	-	61	88	118	151	188	231	279	333

### Coefficient of performance (C.O.P.)

30	1.36	1.62	1.93	2.29	2.72	3.23	3.84	4.58	5.48
35	1.20	1.43	1.69	2.00	2.36	2.78	3.29	3.89	4.62
40	1.04	1.25	1.48	1.74	2.04	2.39	2.80	3.29	3.88
45	0.89	1.08	1.28	1.50	1.75	2.04	2.38	2.78	3.26
50	0.74	0.92	1.09	1.28	1.49	1.73	2.01	2.34	2.73
55	-	0.76	0.92	1.08	1.25	1.45	1.68	1.95	2.27
60	-	0.61	0.75	0.89	1.03	1.20	1.39	1.61	1.86

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

Cooling capacity	4 751	W
Power input	2 718	W
Current consumption	4.21	A
Mass flow	168	kg/h
C.O.P.	1.75	

### 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	73	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

## Performance data at 60 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	2 233	3 090	4 157	5 460	7 025	8 881	11 052	13 567	16 451
35	2 020	2 829	3 826	5 038	6 491	8 212	10 229	12 568	15 256
40	1 799	2 563	3 492	4 613	5 955	7 544	9 407	11 572	14 064
45	1 568	2 288	3 150	4 184	5 416	6 874	8 585	10 577	12 876
50	1 322	2 000	2 799	3 746	4 871	6 200	7 762	9 583	11 692
55	-	1 698	2 436	3 301	4 320	5 524	6 939	8 594	10 516
60	-	1 376	2 059	2 846	3 766	4 849	6 123	7 616	9 359

### Power input in W

30	1 474	1 716	1 945	2 155	2 341	2 498	2 621	2 705	2 744
35	1 501	1 767	2 021	2 258	2 472	2 658	2 812	2 927	2 999
40	1 520	1 811	2 092	2 356	2 600	2 817	3 002	3 150	3 257
45	1 523	1 841	2 150	2 444	2 718	2 967	3 185	3 368	3 510
50	1 506	1 852	2 191	2 515	2 821	3 103	3 356	3 575	3 754
55	-	1 838	2 207	2 564	2 903	3 220	3 508	3 764	3 981
60	-	1 792	2 193	2 583	2 957	3 310	3 636	3 930	4 187

### Current consumption in A

30	2.86	3.07	3.30	3.54	3.78	4.00	4.17	4.30	4.35
35	2.88	3.11	3.37	3.64	3.91	4.15	4.36	4.51	4.59
40	2.90	3.16	3.46	3.76	4.06	4.33	4.57	4.76	4.87
45	2.91	3.21	3.54	3.88	4.21	4.52	4.80	5.03	5.18
50	2.89	3.23	3.60	3.98	4.36	4.71	5.03	5.30	5.49
55	-	3.22	3.63	4.06	4.48	4.88	5.24	5.56	5.80
60	-	3.15	3.62	4.09	4.56	5.01	5.43	5.79	6.08

### Mass flow in kg/h

30	63	85	112	143	180	224	273	330	395
35	60	83	109	140	176	218	266	322	384
40	57	80	106	137	172	213	260	313	374
45	54	77	103	133	167	207	253	304	363
50	49	72	98	128	162	201	245	296	353
55	-	67	93	123	157	195	238	287	342
60	-	61	87	117	150	187	229	277	330

### Coefficient of performance (C.O.P.)

30	1.51	1.80	2.14	2.53	3.00	3.55	4.22	5.02	6.00
35	1.35	1.60	1.89	2.23	2.63	3.09	3.64	4.29	5.09
40	1.18	1.42	1.67	1.96	2.29	2.68	3.13	3.67	4.32
45	1.03	1.24	1.47	1.71	1.99	2.32	2.70	3.14	3.67
50	0.88	1.08	1.28	1.49	1.73	2.00	2.31	2.68	3.11
55	-	0.92	1.10	1.29	1.49	1.72	1.98	2.28	2.64
60	-	0.77	0.94	1.10	1.27	1.46	1.68	1.94	2.24

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

Cooling capacity	5 416	W
Power input	2 718	W
Current consumption	4.21	A
Mass flow	167	kg/h
C.O.P.	1.99	

### 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	73	dB(A)
With acoustic hood	66	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

**Performance data at 60 Hz, EN 12900 rating conditions**
**R407A**

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

**Cooling capacity in W**

30	1 531	2 301	3 250	4 402	5 781	7 410	9 315	11 518	14 044
35	1 304	2 037	2 935	4 023	5 326	6 867	8 670	10 759	13 159
40	1 073	1 764	2 607	3 628	4 851	6 299	7 997	9 968	12 237
45	844	1 488	2 273	3 223	4 362	5 713	7 302	9 151	11 285
50	-	1 215	1 938	2 812	3 863	5 114	6 590	8 313	10 309
55	-	-	1 607	2 403	3 362	4 509	5 867	7 461	9 314
60	-	-	-	1 999	2 863	3 901	5 139	6 599	8 306

**Power input in W**

30	1 168	1 411	1 635	1 839	2 020	2 178	2 311	2 418	2 498
35	1 147	1 417	1 671	1 904	2 118	2 309	2 478	2 621	2 739
40	1 107	1 407	1 691	1 957	2 205	2 432	2 637	2 819	2 977
45	1 049	1 380	1 697	1 998	2 281	2 546	2 790	3 012	3 212
50	-	1 338	1 689	2 026	2 347	2 651	2 936	3 201	3 445
55	-	-	1 667	2 042	2 403	2 748	3 076	3 386	3 675
60	-	-	-	2 046	2 449	2 837	3 210	3 566	3 903

**Current consumption in A**

30	2.86	3.07	3.29	3.52	3.73	3.91	4.05	4.12	4.12
35	2.87	3.08	3.31	3.56	3.80	4.01	4.19	4.31	4.36
40	2.87	3.09	3.35	3.62	3.89	4.14	4.36	4.54	4.65
45	2.84	3.09	3.37	3.67	3.98	4.28	4.56	4.79	4.97
50	-	3.05	3.37	3.71	4.07	4.42	4.76	5.06	5.31
55	-	-	3.33	3.72	4.13	4.54	4.95	5.33	5.66
60	-	-	-	3.68	4.15	4.63	5.11	5.57	6.00

**Mass flow in kg/h**

30	36	54	75	99	128	161	199	242	292
35	33	50	71	95	124	157	194	238	287
40	28	46	66	91	119	151	189	232	280
45	24	41	62	85	113	146	183	225	273
50	-	36	56	80	107	139	175	217	264
55	-	-	50	73	100	131	167	208	255
60	-	-	-	66	92	123	158	198	244

**Coefficient of performance (C.O.P.)**

30	1.31	1.63	1.99	2.39	2.86	3.40	4.03	4.76	5.62
35	1.14	1.44	1.76	2.11	2.51	2.97	3.50	4.10	4.80
40	0.97	1.25	1.54	1.85	2.20	2.59	3.03	3.54	4.11
45	0.80	1.08	1.34	1.61	1.91	2.24	2.62	3.04	3.51
50	-	0.91	1.15	1.39	1.65	1.93	2.24	2.60	2.99
55	-	-	0.96	1.18	1.40	1.64	1.91	2.20	2.53
60	-	-	-	0.98	1.17	1.38	1.60	1.85	2.13

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

Cooling capacity	4 362	W
Power input	2 281	W
Current consumption	3.98	A
Mass flow	113	kg/h
C.O.P.	1.91	

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	73	dB(A)
With acoustic hood	66	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

## Performance data at 60 Hz, ARI rating conditions

# R407A

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

### Cooling capacity in W

30	1 656	2 485	3 505	4 741	6 218	7 961	9 995	12 345	15 036
35	1 419	2 212	3 183	4 357	5 759	7 414	9 349	11 587	14 155
40	1 176	1 928	2 846	3 954	5 277	6 842	8 673	10 796	13 235
45	932	1 640	2 500	3 538	4 779	6 249	7 973	9 976	12 285
50	-	1 352	2 151	3 115	4 270	5 641	7 254	9 135	11 309
55	-	-	1 805	2 691	3 756	5 025	6 524	8 279	10 316
60	-	-	-	2 272	3 243	4 407	5 789	7 416	9 312

### Power input in W

30	1 168	1 411	1 635	1 839	2 020	2 178	2 311	2 418	2 498
35	1 147	1 417	1 671	1 904	2 118	2 309	2 478	2 621	2 739
40	1 107	1 407	1 691	1 957	2 205	2 432	2 637	2 819	2 977
45	1 049	1 380	1 697	1 998	2 281	2 546	2 790	3 012	3 212
50	-	1 338	1 689	2 026	2 347	2 651	2 936	3 201	3 445
55	-	-	1 667	2 042	2 403	2 748	3 076	3 386	3 675
60	-	-	-	2 046	2 449	2 837	3 210	3 566	3 903

### Current consumption in A

30	2.86	3.07	3.29	3.52	3.73	3.91	4.05	4.12	4.12
35	2.87	3.08	3.31	3.56	3.80	4.01	4.19	4.31	4.36
40	2.87	3.09	3.35	3.62	3.89	4.14	4.36	4.54	4.65
45	2.84	3.09	3.37	3.67	3.98	4.28	4.56	4.79	4.97
50	-	3.05	3.37	3.71	4.07	4.42	4.76	5.06	5.31
55	-	-	3.33	3.72	4.13	4.54	4.95	5.33	5.66
60	-	-	-	3.68	4.15	4.63	5.11	5.57	6.00

### Mass flow in kg/h

30	36	54	74	98	127	160	198	241	290
35	32	50	70	95	123	156	193	236	285
40	28	46	66	90	118	151	188	230	279
45	24	41	61	85	113	145	182	224	271
50	-	36	56	79	106	138	174	216	263
55	-	-	50	73	100	131	166	207	253
60	-	-	-	66	92	122	157	197	243

### Coefficient of performance (C.O.P.)

30	1.42	1.76	2.14	2.58	3.08	3.65	4.32	5.10	6.02
35	1.24	1.56	1.91	2.29	2.72	3.21	3.77	4.42	5.17
40	1.06	1.37	1.68	2.02	2.39	2.81	3.29	3.83	4.45
45	0.89	1.19	1.47	1.77	2.09	2.45	2.86	3.31	3.82
50	-	1.01	1.27	1.54	1.82	2.13	2.47	2.85	3.28
55	-	-	1.08	1.32	1.56	1.83	2.12	2.45	2.81
60	-	-	-	1.11	1.32	1.55	1.80	2.08	2.39

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

Cooling capacity	4 779	W
Power input	2 281	W
Current consumption	3.98	A
Mass flow	113	kg/h
C.O.P.	2.09	

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	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	73	dB(A)
With acoustic hood	66	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

## Performance data at 60 Hz, EN 12900 rating conditions

# R407F

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

### Cooling capacity in W

30	-	2 540	3 615	4 915	6 468	8 302	10 445	12 924	15 768
35	-	2 170	3 154	4 344	5 768	7 454	9 430	11 723	14 362
40	-	1 852	2 758	3 850	5 158	6 709	8 530	10 650	13 096
45	-	1 577	2 417	3 425	4 630	6 058	7 738	9 697	11 963
50	-	-	2 122	3 059	4 172	5 490	7 041	8 852	10 951
55	-	-	-	2 741	3 776	4 997	6 431	8 107	10 051
60	-	-	-	-	-	-	-	-	-

### Power input in W

30	-	1 454	1 681	1 890	2 073	2 220	2 321	2 367	2 349
35	-	1 456	1 707	1 948	2 170	2 363	2 519	2 627	2 677
40	-	1 456	1 727	1 995	2 252	2 488	2 693	2 858	2 973
45	-	1 464	1 750	2 042	2 329	2 603	2 853	3 071	3 246
50	-	-	1 786	2 096	2 409	2 716	3 007	3 273	3 505
55	-	-	-	2 168	2 503	2 838	3 166	3 476	3 758
60	-	-	-	-	-	-	-	-	-

### Current consumption in A

30	-	3.07	3.31	3.56	3.78	3.98	4.11	4.16	4.12
35	-	3.12	3.37	3.63	3.89	4.11	4.29	4.40	4.42
40	-	3.15	3.41	3.70	3.99	4.26	4.49	4.66	4.75
45	-	3.15	3.44	3.76	4.09	4.41	4.70	4.94	5.11
50	-	-	3.46	3.82	4.20	4.58	4.94	5.25	5.51
55	-	-	-	3.88	4.32	4.76	5.20	5.60	5.94
60	-	-	-	-	-	-	-	-	-

### Mass flow in kg/h

30	-	52	74	99	128	162	201	246	297
35	-	47	67	91	119	152	190	233	282
40	-	42	62	85	112	144	180	222	269
45	-	38	57	80	106	137	172	212	258
50	-	-	53	75	101	131	165	205	250
55	-	-	-	72	98	127	161	199	243
60	-	-	-	-	-	-	-	-	-

### Coefficient of performance (C.O.P.)

30	-	1.75	2.15	2.60	3.12	3.74	4.50	5.46	6.71
35	-	1.49	1.85	2.23	2.66	3.15	3.74	4.46	5.36
40	-	1.27	1.60	1.93	2.29	2.70	3.17	3.73	4.40
45	-	1.08	1.38	1.68	1.99	2.33	2.71	3.16	3.69
50	-	-	1.19	1.46	1.73	2.02	2.34	2.70	3.12
55	-	-	-	1.26	1.51	1.76	2.03	2.33	2.67
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	4 630	W
Power input	2 329	W
Current consumption	4.09	A
Mass flow	106	kg/h
C.O.P.	1.99	

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	24	bar(g)
Minimum LP switch setting	1	bar(g)
LP pump down setting	1.26	bar(g)

### Sound power data

Sound power level	73	dB(A)
With acoustic hood	66	dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, ARI rating conditions**
**R407F**

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

**Cooling capacity in W**

30	-	2 723	3 871	5 257	6 911	8 863	11 141	13 773	16 790
35	-	2 336	3 392	4 667	6 190	7 991	10 100	12 544	15 354
40	-	2 005	2 981	4 158	5 564	7 228	9 181	11 450	14 066
45	-	1 718	2 630	3 722	5 023	6 564	8 374	10 483	12 918
50	-	-	2 327	3 348	4 560	5 991	7 673	9 634	11 904
55	-	-	-	3 028	4 164	5 501	7 069	8 898	11 016
60	-	-	-	-	-	-	-	-	-

**Power input in W**

30	-	1 454	1 681	1 890	2 073	2 220	2 321	2 367	2 349
35	-	1 456	1 707	1 948	2 170	2 363	2 519	2 627	2 677
40	-	1 456	1 727	1 995	2 252	2 488	2 693	2 858	2 973
45	-	1 464	1 750	2 042	2 329	2 603	2 853	3 071	3 246
50	-	-	1 786	2 096	2 409	2 716	3 007	3 273	3 505
55	-	-	-	2 168	2 503	2 838	3 166	3 476	3 758
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

30	-	3.07	3.31	3.56	3.78	3.98	4.11	4.16	4.12
35	-	3.12	3.37	3.63	3.89	4.11	4.29	4.40	4.42
40	-	3.15	3.41	3.70	3.99	4.26	4.49	4.66	4.75
45	-	3.15	3.44	3.76	4.09	4.41	4.70	4.94	5.11
50	-	-	3.46	3.82	4.20	4.58	4.94	5.25	5.51
55	-	-	-	3.88	4.32	4.76	5.20	5.60	5.94
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

30	-	52	73	98	127	161	200	244	295
35	-	47	67	91	119	151	188	231	280
40	-	42	62	84	111	143	179	220	267
45	-	38	57	79	105	136	171	211	257
50	-	-	53	75	101	130	164	203	248
55	-	-	-	72	97	126	160	198	241
60	-	-	-	-	-	-	-	-	-

**Coefficient of performance (C.O.P.)**

30	-	1.87	2.30	2.78	3.33	3.99	4.80	5.82	7.15
35	-	1.61	1.99	2.40	2.85	3.38	4.01	4.78	5.73
40	-	1.38	1.73	2.08	2.47	2.91	3.41	4.01	4.73
45	-	1.17	1.50	1.82	2.16	2.52	2.94	3.41	3.98
50	-	-	1.30	1.60	1.89	2.21	2.55	2.94	3.40
55	-	-	-	1.40	1.66	1.94	2.23	2.56	2.93
60	-	-	-	-	-	-	-	-	-

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

Cooling capacity	5 023	W
Power input	2 329	W
Current consumption	4.09	A
Mass flow	105	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

**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	73	dB(A)
With acoustic hood	66	dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions**
**R134a**

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

**Cooling capacity in W**

35	1 129	1 620	3 036	4 029	5 255	6 748	8 542	10 669	13 162
40	967	1 436	2 768	3 698	4 849	6 254	7 947	9 959	12 326
45	803	1 247	2 492	3 359	4 433	5 748	7 338	9 234	11 471
50	641	1 059	2 212	3 014	4 010	5 234	6 718	8 497	10 604
55	-	-	1 933	2 668	3 584	4 714	6 093	7 752	9 726
60	-	-	-	2 324	3 158	4 194	5 465	7 003	8 842
65	-	-	-	-	2 738	3 677	4 838	6 253	7 957
75	-	-	-	-	-	-	3 605	4 770	6 196

**Power input in W**

35	892	1 067	1 407	1 559	1 690	1 793	1 861	1 889	1 868
40	915	1 096	1 457	1 623	1 771	1 894	1 986	2 039	2 047
45	924	1 113	1 497	1 680	1 848	1 993	2 109	2 190	2 229
50	918	1 116	1 529	1 730	1 918	2 088	2 231	2 341	2 413
55	-	-	1 550	1 771	1 983	2 178	2 350	2 492	2 597
60	-	-	-	1 804	2 040	2 263	2 466	2 641	2 783
65	-	-	-	-	2 091	2 343	2 578	2 788	2 968
75	-	-	-	-	-	-	2 788	3 075	3 337

**Current consumption in A**

35	3.02	3.15	3.39	3.50	3.59	3.66	3.71	3.73	3.71
40	3.04	3.17	3.44	3.56	3.67	3.76	3.84	3.88	3.89
45	3.04	3.18	3.47	3.61	3.75	3.86	3.96	4.04	4.08
50	3.03	3.18	3.50	3.66	3.82	3.96	4.09	4.19	4.27
55	-	-	3.52	3.70	3.88	4.05	4.21	4.35	4.46
60	-	-	-	3.73	3.93	4.13	4.32	4.50	4.65
65	-	-	-	-	3.97	4.20	4.42	4.64	4.83
75	-	-	-	-	-	-	4.59	4.89	5.17

**Mass flow in kg/h**

35	29	40	72	94	119	150	187	230	280
40	26	38	69	90	116	146	182	224	274
45	23	35	66	87	112	141	177	219	267
50	20	31	62	82	107	136	171	212	260
55	-	-	58	77	101	130	164	204	251
60	-	-	-	72	96	124	157	196	242
65	-	-	-	-	89	116	149	187	232
75	-	-	-	-	-	-	131	167	210

**Coefficient of performance (C.O.P.)**

35	1.27	1.52	2.16	2.58	3.11	3.76	4.59	5.65	7.05
40	1.06	1.31	1.90	2.28	2.74	3.30	4.00	4.88	6.02
45	0.87	1.12	1.66	2.00	2.40	2.88	3.48	4.22	5.15
50	0.70	0.95	1.45	1.74	2.09	2.51	3.01	3.63	4.39
55	-	-	1.25	1.51	1.81	2.16	2.59	3.11	3.74
60	-	-	-	1.29	1.55	1.85	2.22	2.65	3.18
65	-	-	-	-	1.31	1.57	1.88	2.24	2.68
75	-	-	-	-	-	-	1.29	1.55	1.86

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

Cooling capacity	5 234	W
Power input	2 088	W
Current consumption	3.96	A
Mass flow	136	kg/h
C.O.P.	2.51	

**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)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 60 Hz, ARI rating conditions**
**R134a**

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

**Cooling capacity in W**

35	1 228	1 758	3 283	4 349	5 664	7 262	9 179	11 450	14 107
40	1 058	1 566	3 008	4 012	5 252	6 763	8 579	10 736	13 267
45	884	1 370	2 724	3 665	4 828	6 249	7 963	10 004	12 408
50	-	1 171	2 435	3 310	4 395	5 724	7 334	9 258	11 533
55	-	-	2 145	2 953	3 957	5 193	6 697	8 503	10 646
60	-	-	-	2 597	3 519	4 660	6 056	7 741	9 753
65	-	-	-	-	-	4 128	5 414	6 979	8 856
75	-	-	-	-	-	-	4 148	5 466	7 075

**Power input in W**

35	892	1 067	1 407	1 559	1 690	1 793	1 861	1 889	1 868
40	915	1 096	1 457	1 623	1 771	1 894	1 986	2 039	2 047
45	924	1 113	1 497	1 680	1 848	1 993	2 109	2 190	2 229
50	-	1 116	1 529	1 730	1 918	2 088	2 231	2 341	2 413
55	-	-	1 550	1 771	1 983	2 178	2 350	2 492	2 597
60	-	-	-	1 804	2 040	2 263	2 466	2 641	2 783
65	-	-	-	-	-	2 343	2 578	2 788	2 968
75	-	-	-	-	-	-	2 788	3 075	3 337

**Current consumption in A**

35	3.02	3.15	3.39	3.50	3.59	3.66	3.71	3.73	3.71
40	3.04	3.17	3.44	3.56	3.67	3.76	3.84	3.88	3.89
45	3.04	3.18	3.47	3.61	3.75	3.86	3.96	4.04	4.08
50	-	3.18	3.50	3.66	3.82	3.96	4.09	4.19	4.27
55	-	-	3.52	3.70	3.88	4.05	4.21	4.35	4.46
60	-	-	-	3.73	3.93	4.13	4.32	4.50	4.65
65	-	-	-	-	-	4.20	4.42	4.64	4.83
75	-	-	-	-	-	-	4.59	4.89	5.17

**Mass flow in kg/h**

35	28	40	72	93	119	149	186	228	278
40	26	38	69	90	115	145	181	223	272
45	23	35	66	86	111	141	176	217	265
50	-	31	62	82	106	135	170	211	258
55	-	-	57	77	101	129	163	203	250
60	-	-	-	72	95	123	156	195	241
65	-	-	-	-	-	116	148	186	231
75	-	-	-	-	-	-	130	166	209

**Coefficient of performance (C.O.P.)**

35	1.38	1.65	2.33	2.79	3.35	4.05	4.93	6.06	7.55
40	1.16	1.43	2.07	2.47	2.97	3.57	4.32	5.26	6.48
45	0.96	1.23	1.82	2.18	2.61	3.14	3.77	4.57	5.57
50	-	1.05	1.59	1.91	2.29	2.74	3.29	3.95	4.78
55	-	-	1.38	1.67	2.00	2.38	2.85	3.41	4.10
60	-	-	-	1.44	1.72	2.06	2.46	2.93	3.50
65	-	-	-	-	-	1.76	2.10	2.50	2.98
75	-	-	-	-	-	-	1.49	1.78	2.12

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

Cooling capacity	5 889	W
Power input	2 245	W
Current consumption	4.11	A
Mass flow	145	kg/h
C.O.P.	2.62	

**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)

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

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**Performance data at 60 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	3 813	4 972	6 385	8 088	10 120	12 516	15 315	-	-
40	3 564	4 656	5 978	7 566	9 457	11 687	14 294	-	-
45	3 294	4 322	5 554	7 027	8 779	10 844	13 260	-	-
50	-	3 968	5 111	6 471	8 084	9 986	12 213	-	-
55	-	-	4 650	5 898	7 374	9 113	11 153	-	-
60	-	-	-	5 308	6 647	8 225	10 078	-	-
65	-	-	-	4 699	5 903	7 320	8 986	-	-

**Power input in W**

35	1 758	1 930	2 087	2 228	2 351	2 456	2 542	-	-
40	1 855	2 051	2 233	2 397	2 544	2 671	2 779	-	-
45	1 941	2 165	2 374	2 565	2 738	2 892	3 025	-	-
50	-	2 269	2 508	2 729	2 932	3 115	3 277	-	-
55	-	-	2 632	2 887	3 123	3 338	3 532	-	-
60	-	-	-	3 036	3 308	3 559	3 788	-	-
65	-	-	-	3 173	3 485	3 775	4 043	-	-

**Current consumption in A**

35	3.11	3.29	3.46	3.62	3.78	3.91	4.03	-	-
40	3.23	3.44	3.63	3.82	3.99	4.14	4.26	-	-
45	3.32	3.57	3.81	4.02	4.22	4.39	4.53	-	-
50	-	3.69	3.97	4.23	4.47	4.67	4.84	-	-
55	-	-	4.12	4.43	4.72	4.96	5.17	-	-
60	-	-	-	4.62	4.96	5.27	5.52	-	-
65	-	-	-	4.79	5.20	5.57	5.88	-	-

**Mass flow in kg/h**

35	83	106	134	167	206	251	303	-	-
40	81	104	132	164	202	246	296	-	-
45	79	102	129	160	197	240	289	-	-
50	-	99	126	156	192	233	281	-	-
55	-	-	122	151	186	226	272	-	-
60	-	-	-	146	179	218	262	-	-
65	-	-	-	140	172	209	251	-	-

**Coefficient of performance (C.O.P.)**

35	2.17	2.58	3.06	3.63	4.30	5.10	6.03	-	-
40	1.92	2.27	2.68	3.16	3.72	4.38	5.14	-	-
45	1.70	2.00	2.34	2.74	3.21	3.75	4.38	-	-
50	-	1.75	2.04	2.37	2.76	3.21	3.73	-	-
55	-	-	1.77	2.04	2.36	2.73	3.16	-	-
60	-	-	-	1.75	2.01	2.31	2.66	-	-
65	-	-	-	1.48	1.69	1.94	2.22	-	-

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

Cooling capacity	8 084	W
Power input	2 932	W
Current consumption	4.47	A
Mass flow	192	kg/h
C.O.P.	2.76	

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	1.4	bar(g)
LP pump down setting	1.7	bar(g)

**Sound power data**

Sound power level	77	dB(A)
With acoustic hood	70	dB(A)

Tolerance according EN12900

**Performance data at 60 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	4 104	5 345	6 855	8 675	10 842	13 396	16 374	-	-
40	3 857	5 032	6 452	8 156	10 182	12 569	15 355	-	-
45	3 588	4 700	6 031	7 620	9 506	11 727	14 323	-	-
50	-	4 346	5 590	7 066	8 813	10 871	13 277	-	-
55	-	-	5 129	6 494	8 104	9 999	12 217	-	-
60	-	-	-	5 904	7 378	9 112	11 144	-	-
65	-	-	-	5 295	6 636	8 210	10 057	-	-

**Power input in W**

35	1 758	1 930	2 087	2 228	2 351	2 456	2 542	-	-
40	1 855	2 051	2 233	2 397	2 544	2 671	2 779	-	-
45	1 941	2 165	2 374	2 565	2 738	2 892	3 025	-	-
50	-	2 269	2 508	2 729	2 932	3 115	3 277	-	-
55	-	-	2 632	2 887	3 123	3 338	3 532	-	-
60	-	-	-	3 036	3 308	3 559	3 788	-	-
65	-	-	-	3 173	3 485	3 775	4 043	-	-

**Current consumption in A**

35	3.11	3.29	3.46	3.62	3.78	3.91	4.03	-	-
40	3.23	3.44	3.63	3.82	3.99	4.14	4.26	-	-
45	3.32	3.57	3.81	4.02	4.22	4.39	4.53	-	-
50	-	3.69	3.97	4.23	4.47	4.67	4.84	-	-
55	-	-	4.12	4.43	4.72	4.96	5.17	-	-
60	-	-	-	4.62	4.96	5.27	5.52	-	-
65	-	-	-	4.79	5.20	5.57	5.88	-	-

**Mass flow in kg/h**

35	82	106	133	166	205	250	302	-	-
40	81	104	131	163	201	244	295	-	-
45	79	102	128	160	196	238	287	-	-
50	-	99	125	155	191	232	279	-	-
55	-	-	121	151	185	224	270	-	-
60	-	-	-	145	178	216	260	-	-
65	-	-	-	139	171	208	250	-	-

**Coefficient of performance (C.O.P.)**

35	2.33	2.77	3.28	3.89	4.61	5.45	6.44	-	-
40	2.08	2.45	2.89	3.40	4.00	4.71	5.53	-	-
45	1.85	2.17	2.54	2.97	3.47	4.06	4.74	-	-
50	-	1.92	2.23	2.59	3.01	3.49	4.05	-	-
55	-	-	1.95	2.25	2.60	3.00	3.46	-	-
60	-	-	-	1.94	2.23	2.56	2.94	-	-
65	-	-	-	1.67	1.90	2.17	2.49	-	-

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

Cooling capacity	8 995	W
Power input	3 196	W
Current consumption	4.80	A
Mass flow	202	kg/h
C.O.P.	2.81	

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	77	dB(A)
With acoustic hood	70	dB(A)

Tolerance according EN12900

**Datasheet, performance data**
**Maneurop reciprocating compressor. MTZ032-4**
**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R448A**

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

**Cooling capacity in W**

10	-	3 479	4 521	5 832	7 448	-	-	-	-
20	-	3 102	4 047	5 228	6 678	8 435	10 536	-	-
30	-	2 671	3 517	4 564	5 845	7 397	9 255	11 458	14 051
40	-	-	2 942	3 851	4 961	6 305	7 917	9 833	12 093
50	-	-	-	3 102	4 037	5 171	6 535	8 162	10 088
60	-	-	-	-	3 085	4 006	5 120	6 458	8 049

**Power input in W**

10	-	1 610	1 682	1 724	1 731	-	-	-	-
20	-	1 516	1 628	1 717	1 779	1 811	1 809	-	-
30	-	1 511	1 667	1 808	1 932	2 033	2 107	2 152	2 162
40	-	-	1 749	1 948	2 138	2 313	2 470	2 605	2 714
50	-	-	-	2 086	2 348	2 603	2 848	3 079	3 291
60	-	-	-	-	2 510	2 850	3 189	3 521	3 843

**Current consumption in A**

10	-	2.62	2.76	2.88	2.97	-	-	-	-
20	-	2.78	2.92	3.05	3.16	3.24	3.26	-	-
30	-	2.94	3.10	3.27	3.42	3.55	3.65	3.69	3.67
40	-	-	3.25	3.47	3.70	3.92	4.11	4.26	4.35
50	-	-	-	3.64	3.96	4.28	4.59	4.87	5.12
60	-	-	-	-	4.15	4.61	5.06	5.50	5.91

**Mass flow in kg/h**

10	-	57	74	96	123	-	-	-	-
20	-	55	72	93	119	151	190	-	-
30	-	51	67	88	113	144	181	228	284
40	-	-	62	81	105	134	171	215	268
50	-	-	-	73	95	123	157	199	250
60	-	-	-	-	83	109	141	181	229

**Coefficient of performance (C.O.P.)**

10	-	2.16	2.69	3.38	4.30	-	-	-	-
20	-	2.05	2.49	3.05	3.75	4.66	5.82	-	-
30	-	1.77	2.11	2.52	3.03	3.64	4.39	5.32	6.50
40	-	-	1.68	1.98	2.32	2.73	3.20	3.77	4.46
50	-	-	-	1.49	1.72	1.99	2.29	2.65	3.07
60	-	-	-	-	1.23	1.41	1.61	1.83	2.09

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

Cooling capacity	4 504	W
Power input	2 246	W
Current consumption	3.83	A
Mass flow	100	kg/h
C.O.P.	2.01	

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 data**

Sound power level	74	dB(A)
With acoustic hood	67	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

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

# R448A

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

### Cooling capacity in W

10	2 681	3 496	4 547	5 868	7 496	-	-	-	-
20	2 335	3 082	4 030	5 217	6 677	8 444	10 555	-	-
30	1 944	2 617	3 461	4 509	5 797	7 360	9 233	11 452	14 051
40	1 520	2 117	2 851	3 757	4 870	6 225	7 857	9 801	12 093
50	-	1 595	2 216	2 976	3 910	5 053	6 440	8 107	10 088
60	-	-	1 568	2 179	2 930	3 858	4 996	6 382	8 049

### Power input in W

10	1 511	1 610	1 682	1 724	1 731	-	-	-	-
20	1 387	1 516	1 628	1 717	1 779	1 811	1 809	-	-
30	1 344	1 511	1 667	1 808	1 932	2 033	2 107	2 152	2 162
40	1 334	1 542	1 749	1 948	2 138	2 313	2 470	2 605	2 714
50	-	1 561	1 823	2 086	2 348	2 603	2 848	3 079	3 291
60	-	-	1 839	2 171	2 510	2 850	3 189	3 521	3 843

### Current consumption in A

10	2.47	2.62	2.76	2.88	2.97	-	-	-	-
20	2.65	2.78	2.92	3.05	3.16	3.24	3.26	-	-
30	2.81	2.94	3.10	3.27	3.42	3.55	3.65	3.69	3.67
40	2.88	3.05	3.25	3.47	3.70	3.92	4.11	4.26	4.35
50	-	3.07	3.34	3.64	3.96	4.28	4.59	4.87	5.12
60	-	-	3.31	3.72	4.15	4.61	5.06	5.50	5.91

### Mass flow in kg/h

10	52	67	85	107	135	-	-	-	-
20	49	64	82	104	130	162	200	-	-
30	45	59	77	98	124	154	191	234	284
40	39	53	70	91	115	145	179	220	268
50	-	46	62	81	105	132	165	204	250
60	-	-	51	70	91	118	149	185	229

### Coefficient of performance (C.O.P.)

10	1.77	2.17	2.70	3.40	4.33	-	-	-	-
20	1.68	2.03	2.48	3.04	3.75	4.66	5.83	-	-
30	1.45	1.73	2.08	2.49	3.00	3.62	4.38	5.32	6.50
40	1.14	1.37	1.63	1.93	2.28	2.69	3.18	3.76	4.46
50	-	1.02	1.22	1.43	1.67	1.94	2.26	2.63	3.07
60	-	-	0.85	1.00	1.17	1.35	1.57	1.81	2.09

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

Cooling capacity	4 393	W
Power input	2 246	W
Current consumption	3.83	A
Mass flow	110	kg/h
C.O.P.	1.96	

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 level	74	dB(A)
With acoustic hood	67	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

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

# R449A

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

### Cooling capacity in W

10	-	3 485	4 528	5 840	7 455	-	-	-	-
20	-	3 108	4 055	5 235	6 686	8 442	10 541	-	-
30	-	2 678	3 525	4 572	5 853	7 404	9 261	11 462	14 051
40	-	-	2 950	3 860	4 969	6 313	7 923	9 837	12 093
50	-	-	-	3 110	4 046	5 179	6 541	8 166	10 088
60	-	-	-	-	3 092	4 013	5 126	6 462	8 049

### Power input in W

10	-	1 610	1 682	1 724	1 731	-	-	-	-
20	-	1 516	1 628	1 717	1 779	1 811	1 809	-	-
30	-	1 511	1 667	1 808	1 932	2 033	2 107	2 152	2 162
40	-	-	1 749	1 948	2 138	2 313	2 470	2 605	2 714
50	-	-	-	2 086	2 348	2 603	2 848	3 079	3 291
60	-	-	-	-	2 510	2 850	3 189	3 521	3 843

### Current consumption in A

10	-	2.62	2.76	2.88	2.97	-	-	-	-
20	-	2.78	2.92	3.05	3.16	3.24	3.26	-	-
30	-	2.94	3.10	3.27	3.42	3.55	3.65	3.69	3.67
40	-	-	3.25	3.47	3.70	3.92	4.11	4.26	4.35
50	-	-	-	3.64	3.96	4.28	4.59	4.87	5.12
60	-	-	-	-	4.15	4.61	5.06	5.50	5.91

### Mass flow in kg/h

10	-	58	76	99	127	-	-	-	-
20	-	55	73	95	122	154	194	-	-
30	-	51	68	89	115	147	185	232	288
40	-	-	63	83	107	137	174	219	273
50	-	-	-	74	97	126	161	203	255
60	-	-	-	-	85	112	145	185	234

### Coefficient of performance (C.O.P.)

10	-	2.17	2.69	3.39	4.31	-	-	-	-
20	-	2.05	2.49	3.05	3.76	4.66	5.83	-	-
30	-	1.77	2.11	2.53	3.03	3.64	4.39	5.33	6.50
40	-	-	1.69	1.98	2.32	2.73	3.21	3.78	4.46
50	-	-	-	1.49	1.72	1.99	2.30	2.65	3.07
60	-	-	-	-	1.23	1.41	1.61	1.84	2.09

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

Cooling capacity	4 512	W
Power input	2 246	W
Current consumption	3.83	A
Mass flow	103	kg/h
C.O.P.	2.01	

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 data

Sound power level	74	dB(A)
With accoustic hood	67	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

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

# R449A

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

### Cooling capacity in W

10	2 681	3 496	4 547	5 868	7 496	-	-	-	-
20	2 335	3 082	4 030	5 217	6 677	8 444	10 555	-	-
30	1 944	2 617	3 461	4 509	5 797	7 360	9 233	11 452	14 051
40	1 520	2 117	2 851	3 757	4 870	6 225	7 857	9 801	12 093
50	-	1 595	2 216	2 976	3 910	5 053	6 440	8 107	10 088
60	-	-	1 568	2 179	2 930	3 858	4 996	6 382	8 049

### Power input in W

10	1 511	1 610	1 682	1 724	1 731	-	-	-	-
20	1 387	1 516	1 628	1 717	1 779	1 811	1 809	-	-
30	1 344	1 511	1 667	1 808	1 932	2 033	2 107	2 152	2 162
40	1 334	1 542	1 749	1 948	2 138	2 313	2 470	2 605	2 714
50	-	1 561	1 823	2 086	2 348	2 603	2 848	3 079	3 291
60	-	-	1 839	2 171	2 510	2 850	3 189	3 521	3 843

### Current consumption in A

10	2.47	2.62	2.76	2.88	2.97	-	-	-	-
20	2.65	2.78	2.92	3.05	3.16	3.24	3.26	-	-
30	2.81	2.94	3.10	3.27	3.42	3.55	3.65	3.69	3.67
40	2.88	3.05	3.25	3.47	3.70	3.92	4.11	4.26	4.35
50	-	3.07	3.34	3.64	3.96	4.28	4.59	4.87	5.12
60	-	-	3.31	3.72	4.15	4.61	5.06	5.50	5.91

### Mass flow in kg/h

10	51	67	87	111	139	-	-	-	-
20	48	64	83	106	134	166	204	-	-
30	44	60	78	100	126	158	195	238	288
40	40	54	72	93	118	148	183	225	273
50	-	47	63	83	107	135	169	209	255
60	-	-	53	71	93	120	152	190	234

### Coefficient of performance (C.O.P.)

10	1.77	2.17	2.70	3.40	4.33	-	-	-	-
20	1.68	2.03	2.48	3.04	3.75	4.66	5.83	-	-
30	1.45	1.73	2.08	2.49	3.00	3.62	4.38	5.32	6.50
40	1.14	1.37	1.63	1.93	2.28	2.69	3.18	3.76	4.46
50	-	1.02	1.22	1.43	1.67	1.94	2.26	2.63	3.07
60	-	-	0.85	1.00	1.17	1.35	1.57	1.81	2.09

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

Cooling capacity	4 393	W
Power input	2 246	W
Current consumption	3.83	A
Mass flow	113	kg/h
C.O.P.	1.96	

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 level	74	dB(A)
With acoustic hood	67	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

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

## R452A

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

### Cooling capacity in W

10	-	3 995	5 103	6 464	8 105	-	-	-	-
20	-	3 535	4 556	5 800	7 289	9 048	11 104	-	-
30	-	3 009	3 932	5 043	6 367	7 926	9 744	11 849	14 274
40	-	2 434	3 244	4 210	5 355	6 700	8 268	10 082	12 169
50	-	-	2 506	3 314	4 267	5 387	6 692	8 203	9 942
60	-	-	-	2 371	3 121	4 004	5 036	6 233	7 611

### Power input in W

10	-	2 052	2 124	2 160	2 156	-	-	-	-
20	-	1 770	1 888	1 977	2 031	2 049	2 027	-	-
30	-	1 690	1 863	2 013	2 135	2 225	2 282	2 301	2 279
40	-	1 701	1 938	2 158	2 355	2 527	2 671	2 784	2 861
50	-	-	2 003	2 300	2 582	2 845	3 085	3 299	3 485
60	-	-	-	2 330	2 705	3 066	3 411	3 736	4 038

### Current consumption in A

10	-	1.87	1.88	1.90	1.92	-	-	-	-
20	-	2.67	2.72	2.78	2.85	2.89	2.91	-	-
30	-	3.09	3.20	3.33	3.46	3.58	3.67	3.72	3.72
40	-	3.24	3.42	3.63	3.85	4.07	4.26	4.42	4.52
50	-	-	3.48	3.80	4.13	4.46	4.77	5.05	5.29
60	-	-	-	3.92	4.38	4.85	5.30	5.73	6.12

### Mass flow in kg/h

10	-	82	105	133	167	-	-	-	-
20	-	78	101	130	163	204	253	-	-
30	-	73	96	124	157	197	245	302	370
40	-	66	88	115	147	186	232	287	353
50	-	-	77	103	134	171	216	269	332
60	-	-	-	88	118	153	195	245	306

### Coefficient of performance (C.O.P.)

10	-	1.95	2.40	2.99	3.76	-	-	-	-
20	-	2.00	2.41	2.93	3.59	4.42	5.48	-	-
30	-	1.78	2.11	2.51	2.98	3.56	4.27	5.15	6.26
40	-	1.43	1.67	1.95	2.27	2.65	3.09	3.62	4.25
50	-	-	1.25	1.44	1.65	1.89	2.17	2.49	2.85
60	-	-	-	1.02	1.15	1.31	1.48	1.67	1.88

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

Cooling capacity	4 819	W
Power input	2 475	W
Current consumption	4.00	A
Mass flow	141	kg/h
C.O.P.	1.95	

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 data

Sound power level	74	dB(A)
With accoustic hood	67	dB(A)

Tolerance according EN12900

# Datasheet, performance data

# Maneurop reciprocating compressor. MTZ032-4

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

## R452A

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

### Cooling capacity in W

10	3 017	3 889	4 996	6 364	8 019	-	-	-	-
20	2 573	3 383	4 397	5 641	7 142	8 925	11 018	-	-
30	2 087	2 820	3 725	4 831	6 163	7 746	9 609	11 776	14 274
40	1 576	2 217	3 001	3 953	5 100	6 469	8 086	9 978	12 169
50	1 061	1 595	2 241	3 026	3 974	5 114	6 471	8 072	9 942
60	-	973	1 467	2 069	2 804	3 700	4 782	6 077	7 611

### Power input in W

10	1 947	2 052	2 124	2 160	2 156	-	-	-	-
20	1 624	1 770	1 888	1 977	2 031	2 049	2 027	-	-
30	1 495	1 690	1 863	2 013	2 135	2 225	2 282	2 301	2 279
40	1 448	1 701	1 938	2 158	2 355	2 527	2 671	2 784	2 861
50	1 373	1 692	2 003	2 300	2 582	2 845	3 085	3 299	3 485
60	-	1 554	1 945	2 330	2 705	3 066	3 411	3 736	4 038

### Current consumption in A

10	1.88	1.87	1.88	1.90	1.92	-	-	-	-
20	2.65	2.67	2.72	2.78	2.85	2.89	2.91	-	-
30	3.02	3.09	3.20	3.33	3.46	3.58	3.67	3.72	3.72
40	3.09	3.24	3.42	3.63	3.85	4.07	4.26	4.42	4.52
50	2.96	3.20	3.48	3.80	4.13	4.46	4.77	5.05	5.29
60	-	3.07	3.48	3.92	4.38	4.85	5.30	5.73	6.12

### Mass flow in kg/h

10	75	95	120	149	184	-	-	-	-
20	71	91	116	145	180	220	267	-	-
30	64	85	110	139	173	212	258	310	370
40	56	77	101	129	162	200	245	295	353
50	45	65	89	116	148	185	227	276	332
60	-	51	73	99	129	165	205	252	306

### Coefficient of performance (C.O.P.)

10	1.55	1.90	2.35	2.95	3.72	-	-	-	-
20	1.58	1.91	2.33	2.85	3.52	4.36	5.44	-	-
30	1.40	1.67	2.00	2.40	2.89	3.48	4.21	5.12	6.26
40	1.09	1.30	1.55	1.83	2.17	2.56	3.03	3.58	4.25
50	0.77	0.94	1.12	1.32	1.54	1.80	2.10	2.45	2.85
60	-	0.63	0.75	0.89	1.04	1.21	1.40	1.63	1.88

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

Cooling capacity	4 544	W
Power input	2 475	W
Current consumption	4.00	A
Mass flow	155	kg/h
C.O.P.	1.84	

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	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	74	dB(A)
With acoustic hood	67	dB(A)

Tolerance according EN12900

