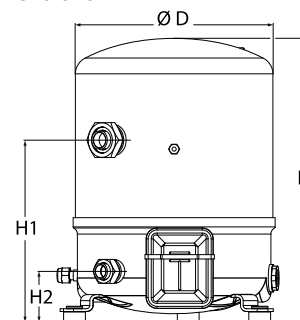
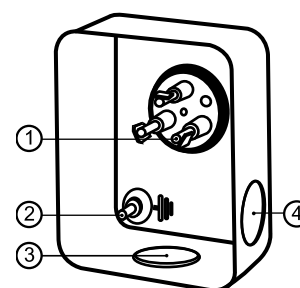


General Characteristics

Model number (on compressor nameplate)		MTZ64HM3AVE
Code number for Singlepack*		MTZ64-3VI
Code number for Industrial pack**		MTZ64-3VM
Drawing number		8502012g
Suction and discharge connections		Rotolock
Suction connection		1-3/4" Rotolock
Discharge connection		1-1/4" Rotolock
Suction connection with supplied sleeve		7/8" ODF
Discharge connection with supplied sleeve		3/4" ODF
Oil sight glass		Threaded
Oil equalization connection		3/8" flare SAE
Oil drain connection		None
LP gauge port		Schrader
IPR valve		435 psi / 115 psi
Cylinders	2	
Swept volume	6.57 in ³ /rev	
Displacement @ Nominal speed	799 cfh @ 3500 rpm	
Net weight	82 lbs	
Oil charge	61 oz, POE - 175PZ	
Maximum system test pressure Low Side / High side	363 psi / 435 psi	
Maximum differential test pressure	435 psi	
Maximum number of starts per hour	12	
Refrigerant charge limit	11 lbs	
Approved refrigerants	R404A, R134a, R407A/C/F, R448A, R449A, R452A, R513A	

Dimensions


D=11.3 inch, H=16.3 inch,
H1=10.4 inch, H2=2.9 inch, H3=- inch

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")

Electrical Characteristics

Nominal voltage	200-230V/3/60Hz
Voltage range	180-253 V
Winding resistance (between phases) +/- 7% at 77°F	0.58 Ω
Maximum Continuous Current (MCC)	29 A
Locked Rotor Amps (LRA)	137 A
Motor protection	Internal overload protector

Recommended Installation torques

Oil sight glass	37 ft.lbs
Power connections / Earth connection	1 ft.lbs / 1 ft.lbs
Mounting bolts	11 ft.lbs

Parts shipped with compressor

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

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

*Singlepack: Compressor in cardboard box

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

Rotolock accessories, suction side

Code no.

Solder sleeve, P07 (1-3/4" Rotolock, 7/8" ODF)	8153013
Rotolock valve, V07 (1-3/4" Rotolock, 7/8" ODF)	8168032
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side

Code no.

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

Rotolock accessories, sets

Code no.

Valve set, V07 (1-3/4"~7/8"), V04 (1-1/4"~3/4")	7703006
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

Oil / lubricants

Code no.

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

Crankcase heaters

Code no.

PTC heater 27W, CE mark, UL	120Z0459
Belt type crankcase heater, 65 W, 110 V, CE mark, UL	7773109
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	7773107

Miscellaneous accessories

Code no.

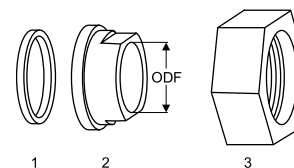
Acoustic hood for 2 cylinder compressor	120Z0472
Oil equalisation nut	8153127

Spare parts

Code no.

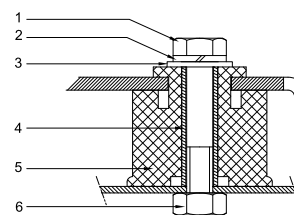
Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts	8156001
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (black chloroprene)	8156145
Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp	8156134

Gaskets, sleeves and nuts



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

Mounting kit



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

Performance data at 60 Hz, ARI rating conditions
R134a

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-10	0	10	20	30	40	50	60	65

Cooling capacity in Btu/h

100	8 628	13 079	18 875	26 295	35 618	47 123	61 086	77 783	87 242
110	7 329	11 478	16 864	23 769	32 475	43 259	56 400	72 173	81 134
120	6 097	9 945	14 923	21 315	29 404	39 469	51 790	66 644	75 107
130	-	-	13 055	18 936	26 409	35 758	47 262	61 200	69 168
140	-	-	-	16 635	23 496	32 131	42 822	55 849	63 326
150	-	-	-	-	-	28 593	38 477	50 601	57 591
160	-	-	-	-	-	-	34 238	45 470	51 980
165	-	-	-	-	-	-	32 162	42 955	49 228

Power input in W

100	1 757	2 180	2 557	2 884	3 161	3 385	3 555	3 669	3 705
110	1 697	2 174	2 604	2 986	3 318	3 598	3 824	3 995	4 059
120	1 609	2 144	2 633	3 075	3 467	3 808	4 095	4 329	4 424
130	-	-	2 638	3 145	3 603	4 010	4 365	4 666	4 796
140	-	-	-	3 191	3 720	4 200	4 628	5 002	5 169
150	-	-	-	-	-	4 372	4 878	5 331	5 537
160	-	-	-	-	-	-	5 110	5 647	5 896
165	-	-	-	-	-	-	5 217	5 799	6 070

Current consumption in A

100	11.98	12.19	12.51	12.90	13.33	13.76	14.17	14.52	14.66
110	11.76	12.10	12.54	13.03	13.55	14.05	14.51	14.90	15.05
120	11.42	11.94	12.54	13.17	13.81	14.43	14.98	15.45	15.63
130	-	-	12.46	13.28	14.08	14.85	15.54	16.12	16.36
140	-	-	-	13.30	14.32	15.28	16.14	16.88	17.19
150	-	-	-	-	-	15.66	16.74	17.67	18.08
160	-	-	-	-	-	-	17.30	18.47	18.98
165	-	-	-	-	-	-	17.55	18.85	19.43

Mass flow in lbs/h

100	132	196	277	376	497	643	818	1 023	1 138
110	119	182	260	358	477	621	793	995	1 109
120	105	166	243	339	456	597	767	967	1 079
130	-	-	226	319	434	573	740	937	1 048
140	-	-	-	299	412	548	713	907	1 017
150	-	-	-	-	-	523	684	876	984
160	-	-	-	-	-	-	655	844	950
165	-	-	-	-	-	-	640	828	933

Energy Efficiency Ratio (E.E.R.)

100	4.91	6.00	7.38	9.12	11.27	13.92	17.18	21.20	23.55
110	4.32	5.28	6.48	7.96	9.79	12.02	14.75	18.07	19.99
120	3.79	4.64	5.67	6.93	8.48	10.37	12.65	15.40	16.98
130	-	-	4.95	6.02	7.33	8.92	10.83	13.12	14.42
140	-	-	-	5.21	6.32	7.65	9.25	11.16	12.25
150	-	-	-	-	-	6.54	7.89	9.49	10.40
160	-	-	-	-	-	-	6.70	8.05	8.82
165	-	-	-	-	-	-	6.16	7.41	8.11

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	41 223	Btu/h	Current consumption	15.21	A
Power input	4 194	W	Mass flow	653	lbs/h
E.E.R.	9.83				

Pressure switch settings

Maximum HP switch setting	293	psi(g)
Minimum LP switch setting	1	psi(g)
LP pump down setting	6	psi(g)

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T 0 : Evaporating temperature at dew point
T C : Condensing temperature at dew point
Rating conditions : Superheat = 20 °F , Subcooling = 15 °F
Tolerance according EN12900

Sound power data

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

Datasheet, performance data
Maneurop reciprocating compressor. MTZ064-3
Performance data at 60 Hz, ARI rating conditions
R404A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-20	-10	0	10	20	30	40	45	50

Cooling capacity in Btu/h

90	15 398	21 962	30 064	39 923	51 758	65 789	82 235	91 433	101 316
100	13 051	19 150	26 643	35 751	46 693	59 689	74 957	83 512	92 718
110	10 696	16 286	23 128	31 443	41 449	53 366	67 413	75 305	83 811
120	8 364	13 402	19 551	27 029	36 056	46 852	59 635	66 841	74 626
130	-	10 532	15 943	22 542	30 547	40 179	51 656	58 155	65 197
140	-	7 706	12 338	18 014	24 955	33 379	43 506	49 277	55 555

Power input in W

90	3 137	3 670	4 138	4 555	4 933	5 285	5 623	5 791	5 960
100	3 118	3 736	4 282	4 767	5 206	5 609	5 990	6 177	6 363
110	3 033	3 748	4 381	4 946	5 455	5 921	6 357	6 567	6 774
120	2 872	3 694	4 425	5 080	5 671	6 210	6 710	6 950	7 184
130	-	3 562	4 403	5 159	5 842	6 465	7 040	7 314	7 581
140	-	3 341	4 302	5 170	5 956	6 673	7 335	7 649	7 954

Current consumption in A

90	12.08	13.43	14.75	16.00	17.18	18.26	19.22	19.65	20.04
100	12.08	13.57	15.01	16.38	17.65	18.82	19.86	20.32	20.74
110	11.93	13.61	15.23	16.77	18.20	19.51	20.68	21.20	21.68
120	11.59	13.51	15.36	17.12	18.76	20.26	21.61	22.22	22.78
130	-	13.19	15.33	17.36	19.26	21.01	22.60	23.32	24.00
140	-	12.61	15.08	17.44	19.65	21.71	23.59	24.45	25.26

Mass flow in lbs/h

90	319	442	588	758	957	1 186	1 449	1 595	1 750
100	294	418	563	733	929	1 156	1 417	1 561	1 714
110	265	389	534	702	897	1 121	1 379	1 521	1 672
120	231	355	499	666	859	1 081	1 335	1 475	1 625
130	-	316	459	625	815	1 034	1 285	1 423	1 570
140	-	272	414	577	765	981	1 228	1 364	1 509

Energy Efficiency Ratio (E.E.R.)

90	4.91	5.98	7.26	8.76	10.49	12.45	14.62	15.79	17.00
100	4.19	5.13	6.22	7.50	8.97	10.64	12.51	13.52	14.57
110	3.53	4.35	5.28	6.36	7.60	9.01	10.61	11.47	12.37
120	2.91	3.63	4.42	5.32	6.36	7.54	8.89	9.62	10.39
130	-	2.96	3.62	4.37	5.23	6.22	7.34	7.95	8.60
140	-	2.31	2.87	3.48	4.19	5.00	5.93	6.44	6.98

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	36 056	Btu/h	Current consumption	18.76	A
Power input	5 671	W	Mass flow	859	lbs/h
E.E.R.	6.36				

Pressure switch settings

Maximum HP switch setting	402	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	19	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 0 °F

Tolerance according EN12900

Sound power data

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

Datasheet, performance data
Maneurop reciprocating compressor. MTZ064-3
Performance data at 60 Hz, ARI rating conditions
R407A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-20	-10	0	10	20	30	40	45	50

Cooling capacity in Btu/h

90	10 956	16 884	24 435	33 878	45 480	59 508	76 231	85 686	95 914
100	9 156	14 698	21 746	30 570	41 438	54 618	70 376	79 306	88 980
110	7 354	12 475	18 988	27 160	37 261	49 558	64 318	72 706	81 809
120	-	10 267	16 210	23 697	32 996	44 377	58 106	65 935	74 451
130	-	-	13 461	20 229	28 694	39 125	51 789	59 043	66 955
140	-	-	-	16 806	24 403	33 851	45 417	52 078	59 370

Power input in W

90	2 282	2 811	3 308	3 764	4 171	4 520	4 800	4 912	5 004
100	2 228	2 816	3 377	3 901	4 380	4 804	5 164	5 318	5 452
110	2 137	2 791	3 421	4 018	4 574	5 079	5 524	5 721	5 900
120	-	2 731	3 435	4 111	4 749	5 339	5 874	6 118	6 344
130	-	-	3 417	4 176	4 901	5 583	6 213	6 505	6 782
140	-	-	-	4 210	5 027	5 805	6 535	6 879	7 208

Current consumption in A

90	10.92	11.76	12.70	13.66	14.58	15.36	15.93	16.11	16.21
100	10.97	11.83	12.83	13.90	14.95	15.90	16.67	16.96	17.18
110	10.94	11.85	12.94	14.12	15.32	16.46	17.46	17.88	18.23
120	-	11.79	12.98	14.31	15.68	17.03	18.27	18.83	19.33
130	-	-	12.96	14.44	16.02	17.60	19.10	19.80	20.46
140	-	-	-	14.51	16.30	18.13	19.92	20.78	21.60

Mass flow in lbs/h

90	170	258	365	495	651	836	1 053	1 175	1 306
100	151	238	344	473	628	811	1 027	1 148	1 278
110	130	215	320	447	600	782	996	1 116	1 245
120	-	191	293	418	569	749	961	1 079	1 207
130	-	-	264	386	535	712	920	1 038	1 164
140	-	-	-	351	496	670	876	991	1 116

Energy Efficiency Ratio (E.E.R.)

90	4.80	6.01	7.39	9.00	10.90	13.17	15.88	17.44	19.17
100	4.11	5.22	6.44	7.84	9.46	11.37	13.63	14.91	16.32
110	3.44	4.47	5.55	6.76	8.15	9.76	11.64	12.71	13.87
120	-	3.76	4.72	5.76	6.95	8.31	9.89	10.78	11.74
130	-	-	3.94	4.84	5.85	7.01	8.34	9.08	9.87
140	-	-	-	3.99	4.85	5.83	6.95	7.57	8.24

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	32 996	Btu/h	Current consumption	15.68	A
Power input	4 749	W	Mass flow	569	lbs/h
E.E.R.	6.95				

Pressure switch settings

Maximum HP switch setting	374	psi(g)
Minimum LP switch setting	13	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 0 °F

Tolerance according EN12900

Sound power data

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

Performance data at 60 Hz, ARI rating conditions
R407C

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	10	20	25	30	35	40	45	50	55

Cooling capacity in Btu/h

100	30 318	41 118	47 269	53 966	61 244	69 135	77 675	86 898	96 837
110	27 840	38 126	43 961	50 302	57 185	64 642	72 708	81 417	90 804
120	-	34 929	40 416	46 370	52 826	59 817	67 377	75 542	84 344
130	-	31 602	36 709	42 244	48 241	54 734	61 757	69 345	77 531
140	-	-	32 913	37 998	43 504	49 468	55 922	62 901	70 439
150	-	-	-	-	38 690	44 092	49 945	56 284	63 142

Power input in W

100	3 698	4 080	4 250	4 410	4 562	4 710	4 855	5 000	5 149
110	3 881	4 350	4 558	4 752	4 935	5 109	5 277	5 442	5 606
120	-	4 587	4 842	5 080	5 302	5 512	5 712	5 905	6 094
130	-	4 778	5 089	5 379	5 650	5 905	6 147	6 377	6 600
140	-	-	5 286	5 637	5 966	6 275	6 567	6 844	7 110
150	-	-	-	-	6 236	6 609	6 960	7 293	7 610

Current consumption in A

100	13.89	14.71	15.07	15.40	15.72	16.03	16.33	16.62	16.93
110	14.38	15.49	15.99	16.46	16.90	17.32	17.73	18.13	18.53
120	-	16.14	16.79	17.40	17.98	18.53	19.07	19.59	20.10
130	-	16.64	17.46	18.22	18.95	19.65	20.32	20.97	21.61
140	-	-	17.98	18.92	19.81	20.67	21.49	22.28	23.06
150	-	-	-	-	20.54	21.57	22.55	23.51	24.43

Mass flow in lbs/h

100	399	531	606	686	772	864	964	1 070	1 184
110	385	518	592	672	757	849	947	1 052	1 165
120	-	501	575	653	738	828	925	1 029	1 139
130	-	482	554	631	714	803	898	999	1 108
140	-	-	530	606	687	773	866	965	1 071
150	-	-	-	-	656	740	830	926	1 028

Energy Efficiency Ratio (E.E.R.)

100	8.20	10.08	11.12	12.24	13.42	14.68	16.00	17.38	18.81
110	7.17	8.76	9.64	10.59	11.59	12.65	13.78	14.96	16.20
120	-	7.61	8.35	9.13	9.96	10.85	11.80	12.79	13.84
130	-	6.61	7.21	7.85	8.54	9.27	10.05	10.87	11.75
140	-	-	6.23	6.74	7.29	7.88	8.52	9.19	9.91
150	-	-	-	-	6.20	6.67	7.18	7.72	8.30

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	61 757	Btu/h	Current consumption	20.32	A
Power input	6 147	W	Mass flow	898	lbs/h
E.E.R.	10.05				

Pressure switch settings

Maximum HP switch setting	426	psi(g)
Minimum LP switch setting	20	psi(g)
LP pump down setting	25	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

Sound power data

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

Datasheet, performance data
Maneurop reciprocating compressor. MTZ064-3
Performance data at 60 Hz, ARI rating conditions
R407F

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-20	-10	0	10	20	30	40	45	50

Cooling capacity in Btu/h

90	-	18 227	26 563	37 015	49 897	65 524	84 208	94 796	106 265
100	-	15 559	23 102	32 566	44 265	58 515	75 629	85 358	95 921
110	-	13 309	20 195	28 807	39 460	52 470	68 150	77 090	86 815
120	-	-	17 729	25 626	35 371	47 277	61 660	69 878	78 834
130	-	-	-	22 910	31 883	42 823	56 045	63 611	71 866
140	-	-	-	-	-	-	-	-	-

Power input in W

90	-	2 975	3 492	3 971	4 386	4 708	4 910	4 958	4 965
100	-	2 994	3 565	4 117	4 623	5 055	5 385	5 503	5 586
110	-	3 020	3 634	4 247	4 832	5 361	5 807	5 990	6 142
120	-	-	3 720	4 382	5 034	5 649	6 199	6 441	6 656
130	-	-	-	4 544	5 252	5 940	6 582	6 877	7 150
140	-	-	-	-	-	-	-	-	-

Current consumption in A

90	-	11.87	12.88	13.92	14.89	15.69	16.20	16.32	16.33
100	-	12.03	13.10	14.24	15.36	16.34	17.09	17.34	17.50
110	-	12.08	13.22	14.49	15.77	16.97	17.98	18.38	18.69
120	-	-	13.32	14.73	16.20	17.64	18.93	19.49	19.97
130	-	-	-	15.04	16.73	18.43	20.03	20.76	21.42
140	-	-	-	-	-	-	-	-	-

Mass flow in lbs/h

90	-	246	352	483	640	828	1 049	1 173	1 307
100	-	221	323	447	598	778	990	1 110	1 238
110	-	201	299	419	564	737	942	1 057	1 182
120	-	-	280	396	537	706	905	1 017	1 138
130	-	-	-	380	518	683	878	987	1 105
140	-	-	-	-	-	-	-	-	-

Energy Efficiency Ratio (E.E.R.)

90	-	6.13	7.61	9.32	11.38	13.92	17.15	19.12	21.40
100	-	5.20	6.48	7.91	9.57	11.58	14.04	15.51	17.17
110	-	4.41	5.56	6.78	8.17	9.79	11.74	12.87	14.13
120	-	-	4.77	5.85	7.03	8.37	9.95	10.85	11.84
130	-	-	-	5.04	6.07	7.21	8.51	9.25	10.05
140	-	-	-	-	-	-	-	-	-

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	35 371	Btu/h	Current consumption	16.20	A
Power input	5 034	W	Mass flow	537	lbs/h
E.E.R.	7.03				

Pressure switch settings

Maximum HP switch setting	348	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	18	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 0 °F

Tolerance according EN12900

Sound power data

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

Datasheet, performance data
Maneurop reciprocating compressor. MTZ064-3
Performance data at 60 Hz, ARI rating conditions
R448A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-20	-10	0	10	20	30	40	45	50

Cooling capacity in Btu/h

50	20 419	28 410	38 514	50 958	-	-	-	-	-
60	18 289	25 837	35 378	47 142	61 358	-	-	-	-
70	16 221	23 313	32 281	43 353	56 759	72 726	-	-	-
80	14 225	20 850	29 233	39 602	52 186	67 214	84 912	-	-
100	10 495	16 151	23 329	32 256	43 163	56 277	71 827	80 586	90 040
120	-	11 828	17 753	25 193	34 375	45 529	58 884	66 458	74 668
140	-	-	-	-	25 911	35 059	46 173	52 538	59 481

Power input in W

50	2 309	2 586	2 781	2 876	-	-	-	-	-
60	2 409	2 743	3 006	3 179	3 245	-	-	-	-
70	2 482	2 875	3 206	3 458	3 612	3 652	-	-	-
80	2 531	2 982	3 382	3 712	3 956	4 094	4 110	-	-
100	2 554	3 124	3 663	4 153	4 576	4 914	5 150	5 224	5 266
120	-	3 176	3 856	4 507	5 112	5 652	6 110	6 303	6 468
140	-	-	-	-	5 569	6 313	6 995	7 307	7 598

Current consumption in A

50	17.68	18.25	18.55	18.47	-	-	-	-	-
60	15.37	16.08	16.60	16.82	16.64	-	-	-	-
70	13.75	14.57	15.27	15.76	15.92	15.68	-	-	-
80	12.73	13.62	14.47	15.19	15.66	15.81	15.51	-	-
100	12.11	13.03	14.07	15.14	16.13	16.95	17.49	17.62	17.65
120	-	13.54	14.63	15.91	17.28	18.62	19.85	20.40	20.87
140	-	-	-	-	18.32	20.06	21.84	22.72	23.57

Mass flow in lbs/h

50	251	344	458	594	-	-	-	-	-
60	235	328	440	574	734	-	-	-	-
70	219	310	421	553	711	896	-	-	-
80	202	292	400	531	686	869	1 081	-	-
100	168	252	357	482	632	809	1 015	1 130	1 252
120	-	212	310	429	573	743	941	1 052	1 171
140	-	-	-	-	509	671	861	968	1 082

Energy Efficiency Ratio (E.E.R.)

50	8.84	10.99	13.85	17.72	-	-	-	-	-
60	7.59	9.42	11.77	14.83	18.91	-	-	-	-
70	6.53	8.11	10.07	12.54	15.71	19.92	-	-	-
80	5.62	6.99	8.64	10.67	13.19	16.42	20.66	-	-
100	4.11	5.17	6.37	7.77	9.43	11.45	13.95	15.42	17.10
120	-	3.72	4.60	5.59	6.72	8.06	9.64	10.54	11.54
140	-	-	-	-	4.65	5.55	6.60	7.19	7.83

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	34 375	Btu/h	Current consumption	17.28	A
Power input	5 112	W	Mass flow	573	lbs/h
E.E.R.	6.72				

Pressure switch settings

Maximum HP switch setting	402	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	19	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 0 °F

Tolerance according EN12900

Sound power data

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

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Datasheet, performance data
Maneurop reciprocating compressor. MTZ064-3
Performance data at 60 Hz, ARI rating conditions
R449A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-20	-10	0	10	20	30	40	45	50

Cooling capacity in Btu/h

50	20 421	28 412	38 516	50 961	-	-	-	-	-
60	18 291	25 838	35 380	47 145	61 362	-	-	-	-
70	16 222	23 315	32 283	43 356	56 763	72 730	-	-	-
80	14 226	20 852	29 235	39 605	52 190	67 218	84 918	-	-
100	10 496	16 153	23 331	32 259	43 167	56 282	71 833	80 593	90 047
120	-	11 829	17 756	25 196	34 379	45 535	58 891	66 465	74 675
140	-	-	-	-	25 915	35 064	46 179	52 545	59 488

Power input in W

50	2 309	2 586	2 781	2 876	-	-	-	-	-
60	2 409	2 743	3 006	3 179	3 245	-	-	-	-
70	2 482	2 875	3 206	3 458	3 612	3 652	-	-	-
80	2 531	2 982	3 382	3 712	3 956	4 094	4 110	-	-
100	2 554	3 124	3 663	4 153	4 576	4 914	5 150	5 224	5 266
120	-	3 176	3 856	4 507	5 112	5 652	6 110	6 303	6 468
140	-	-	-	-	5 569	6 313	6 995	7 307	7 598

Current consumption in A

50	17.68	18.25	18.55	18.47	-	-	-	-	-
60	15.37	16.08	16.60	16.82	16.64	-	-	-	-
70	13.75	14.57	15.27	15.76	15.92	15.68	-	-	-
80	12.73	13.62	14.47	15.19	15.66	15.81	15.51	-	-
100	12.11	13.03	14.07	15.14	16.13	16.95	17.49	17.62	17.65
120	-	13.54	14.63	15.91	17.28	18.62	19.85	20.40	20.87
140	-	-	-	-	18.32	20.06	21.84	22.72	23.57

Mass flow in lbs/h

50	252	350	468	608	-	-	-	-	-
60	237	333	449	587	750	-	-	-	-
70	221	315	429	565	726	914	-	-	-
80	205	297	408	542	701	886	1 101	-	-
100	171	258	364	493	646	825	1 035	1 151	1 276
120	-	217	317	439	586	759	961	1 074	1 195
140	-	-	-	-	521	687	881	990	1 108

Energy Efficiency Ratio (E.E.R.)

50	8.84	10.99	13.85	17.72	-	-	-	-	-
60	7.59	9.42	11.77	14.83	18.91	-	-	-	-
70	6.54	8.11	10.07	12.54	15.72	19.92	-	-	-
80	5.62	6.99	8.64	10.67	13.19	16.42	20.66	-	-
100	4.11	5.17	6.37	7.77	9.43	11.45	13.95	15.43	17.10
120	-	3.72	4.60	5.59	6.73	8.06	9.64	10.55	11.54
140	-	-	-	-	4.65	5.55	6.60	7.19	7.83

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	34 379	Btu/h	Current consumption	17.28	A
Power input	5 112	W	Mass flow	586	lbs/h
E.E.R.	6.73				

Pressure switch settings

Maximum HP switch setting	402	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	19	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 0 °F

Tolerance according EN12900

Sound power data

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

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Performance data at 60 Hz, ARI rating conditions
R452A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-20	-10	0	10	20	30	40	45	50

Cooling capacity in Btu/h

50	23 962	32 058	42 276	54 845	-	-	-	-	-
60	21 594	29 333	39 057	50 996	65 378	-	-	-	-
70	19 270	26 621	35 820	47 095	60 676	76 793	-	-	-
80	16 996	23 927	32 568	43 148	55 897	71 043	88 816	-	-
100	12 621	18 617	26 046	35 140	46 127	59 237	74 700	83 386	92 745
120	8 515	13 447	19 537	27 015	36 113	47 059	60 085	67 449	75 419
140	-	-	-	18 821	25 901	34 557	45 018	50 998	57 515

Power input in W

50	3 091	3 476	3 829	4 163	-	-	-	-	-
60	3 055	3 456	3 817	4 148	4 463	-	-	-	-
70	3 034	3 467	3 849	4 192	4 508	4 811	-	-	-
80	3 020	3 500	3 918	4 287	4 620	4 929	5 227	-	-
100	2 984	3 600	4 134	4 599	5 009	5 375	5 709	5 869	6 025
120	2 883	3 692	4 401	5 021	5 565	6 045	6 475	6 674	6 866
140	-	-	-	5 486	6 223	6 877	7 459	7 728	7 984

Current consumption in A

50	18.95	20.21	21.29	22.23	-	-	-	-	-
60	16.20	17.42	18.47	19.39	20.20	-	-	-	-
70	14.34	15.55	16.59	17.51	18.33	19.10	-	-	-
80	13.22	14.43	15.49	16.43	17.29	18.10	18.90	-	-
100	12.54	13.84	15.00	16.07	17.07	18.04	19.02	19.52	20.04
120	12.89	14.37	15.74	17.02	18.26	19.49	20.74	21.39	22.06
140	-	-	-	18.04	19.61	21.19	22.82	23.66	24.52

Mass flow in lbs/h

50	375	496	642	815	-	-	-	-	-
60	358	480	625	797	1 000	-	-	-	-
70	340	462	607	778	978	1 211	-	-	-
80	321	442	586	755	954	1 185	1 451	-	-
100	276	395	536	702	896	1 121	1 381	1 524	1 678
120	224	340	477	638	826	1 044	1 296	1 435	1 584
140	-	-	-	563	743	954	1 196	1 330	1 474

Energy Efficiency Ratio (E.E.R.)

50	7.75	9.22	11.04	13.17	-	-	-	-	-
60	7.07	8.49	10.23	12.29	14.65	-	-	-	-
70	6.35	7.68	9.31	11.24	13.46	15.96	-	-	-
80	5.63	6.84	8.31	10.06	12.10	14.41	16.99	-	-
100	4.23	5.17	6.30	7.64	9.21	11.02	13.08	14.21	15.39
120	2.95	3.64	4.44	5.38	6.49	7.78	9.28	10.11	10.98
140	-	-	-	3.43	4.16	5.03	6.04	6.60	7.20

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	36 113	Btu/h	Current consumption	18.26	A
Power input	5 565	W	Mass flow	826	lbs/h
E.E.R.	6.49				

Pressure switch settings

Maximum HP switch setting	402	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	19	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 0 °F

Tolerance according EN12900

Sound power data

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

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Datasheet, performance data
Maneurop reciprocating compressor. MTZ064-3
Performance data at 60 Hz, ARI rating conditions
R513A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-20	-10	0	10	20	30	40	45	50

Cooling capacity in Btu/h

50	-	16 723	23 079	31 035	40 770	52 461	-	-	-
60	-	15 043	21 118	28 702	37 971	49 104	62 278	-	-
70	-	13 385	19 166	26 363	35 154	45 716	58 226	65 267	-
80	-	11 764	17 238	24 035	32 333	42 310	54 143	60 811	68 009
100	-	8 691	13 510	19 467	26 739	35 506	45 944	51 846	58 232
120	-	5 942	10 052	15 114	21 307	28 810	37 800	42 908	48 454
140	-	-	-	-	16 156	22 340	29 827	34 115	38 795

Power input in W

50	-	1 792	1 929	2 033	2 112	2 172	-	-	-
60	-	1 890	2 068	2 207	2 316	2 400	2 469	-	-
70	-	1 963	2 189	2 370	2 514	2 629	2 722	2 763	-
80	-	2 008	2 287	2 516	2 702	2 854	2 978	3 032	3 083
100	-	1 996	2 401	2 745	3 034	3 278	3 483	3 574	3 658
120	-	1 824	2 381	2 864	3 283	3 644	3 955	4 095	4 224
140	-	-	-	-	3 418	3 921	4 364	4 565	4 753

Current consumption in A

50	-	10.83	11.16	11.44	11.66	11.77	-	-	-
60	-	10.93	11.31	11.66	11.95	12.15	12.22	-	-
70	-	11.02	11.47	11.90	12.27	12.56	12.74	12.77	-
80	-	11.09	11.62	12.13	12.60	13.00	13.29	13.39	13.45
100	-	11.13	11.84	12.56	13.25	13.89	14.44	14.68	14.88
120	-	10.92	11.87	12.84	13.80	14.72	15.58	15.97	16.34
140	-	-	-	-	14.14	15.39	16.60	17.17	17.72

Mass flow in lbs/h

50	-	241	326	428	548	689	-	-	-
60	-	228	313	414	534	674	836	-	-
70	-	214	299	400	519	657	818	907	-
80	-	199	284	384	502	640	799	887	982
100	-	167	251	350	466	601	757	843	935
120	-	133	216	314	427	559	710	794	884
140	-	-	-	-	386	514	661	743	830

Energy Efficiency Ratio (E.E.R.)

50	-	9.33	11.96	15.26	19.31	24.15	-	-	-
60	-	7.96	10.21	13.00	16.40	20.46	25.22	-	-
70	-	6.82	8.76	11.13	13.99	17.39	21.39	23.62	-
80	-	5.86	7.54	9.55	11.97	14.83	18.18	20.05	22.06
100	-	4.35	5.63	7.09	8.81	10.83	13.19	14.51	15.92
120	-	3.26	4.22	5.28	6.49	7.91	9.56	10.48	11.47
140	-	-	-	-	4.73	5.70	6.83	7.47	8.16

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	21 307	Btu/h	Current consumption	13.80	A
Power input	3 283	W	Mass flow	427	lbs/h
E.E.R.	6.49				

Pressure switch settings

Maximum HP switch setting	402	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	19	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 0 °F

Tolerance according EN12900

Sound power data

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

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