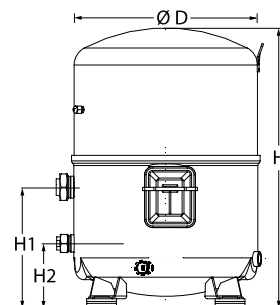
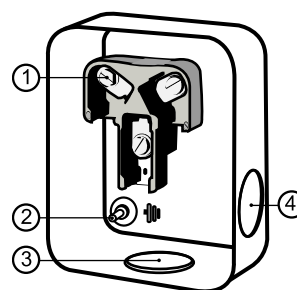


General Characteristics

Model number (on compressor nameplate)		MTZ125HU3VE
Code number for Singlepack*		MTZ125-3VI
Code number for Industrial pack**		MTZ125-3VM
Drawing number		8504010f
Suction and discharge connections		Rotolock
Suction connection		1-3/4 " Rotolock
Discharge connection		1-1/4 " Rotolock
Suction connection with supplied sleeve		1-1/8 " ODF
Discharge connection with supplied sleeve		3/4 " ODF
Oil sight glass		Threaded
Oil equalization connection		3/8" flare SAE
Oil drain connection		None
LP gauge port		Schrader
IPR valve		435 psi / 115 psi
Cylinders	4	
Swept volume	13.15 in3/rev	
Displacement @ Nominal speed	1598 cfh @ 3500 rpm	
Net weight	141 lbs	
Oil charge	132 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	22 lbs	
Approved refrigerants	R404A, R134a, R407C, R407A/F, R448A, R449A, R452A	

Dimensions


D=13.9 inch, H=20.4 inch,
H1=9.2 inch, H2=4.9 inch, H3=- inch

Terminal box


IP54 (with cable gland)

- 1: Screw connectors 10-32 UNF x 9.5
- 2: Earth M4-12
- 3: Knock-out Ø 29 mm (1.14")
- 4: Knock-out Ø 25.5 mm (1.00")

Electrical Characteristics

Nominal voltage	200-230V/3/60Hz
Voltage range	180-253 V
Winding resistance (between phases) +/- 7% at 77°F	0.39 Ω
Maximum Continuous Current (MCC)	54 A
Locked Rotor Amps (LRA)	210 A
Motor protection	Internal overload protector

Recommended Installation torques

Oil sight glass	37 ft.lbs
Power connections / Earth connection	2 ft.lbs / 1 ft.lbs
Mounting bolts	37 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, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
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, V02 (1-3/4"~1-1/8"), V04 (1-1/4"~3/4")	7703009
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

Oil / lubricants

Code no.

POE lubricant, 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, 75 W, 110 V, CE mark, UL	7773110
Belt type crankcase heater, 75 W, 230 V, CE mark, UL	7773108

Miscellaneous accessories

Code no.

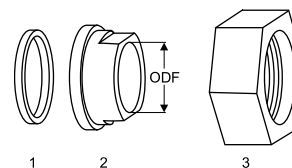
Acoustic hood for 4 cylinder compressor	120Z0473
Oil equalisation nut	8153127

Spare parts

Code no.

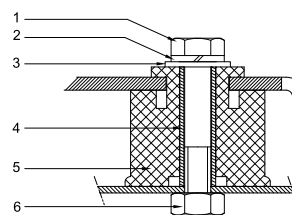
Mounting kit for 4 cylinder compressor & MS, including 4 grommets, 4 bolts	8156007
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (black chloroprene)	8156145
Service kit for terminal box 96 x 115 mm, including 1 cover, 1 clamp	8156135
T block connector 2.1" x 2.3"	8173230

Gaskets, sleeves and nuts



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

Mounting kit



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

Datasheet, performance data

Maneurop reciprocating compressor. MTZ125-3

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	17 568	26 339	37 528	51 557	68 849	89 825	114 904	144 503	161 127
110	14 890	23 131	33 597	46 717	62 914	82 610	106 227	134 182	149 917
120	12 239	19 914	29 625	41 800	56 867	75 250	97 371	123 651	138 481
130	-	-	25 668	36 864	50 766	67 801	88 394	112 967	126 878
140	-	-	-	31 966	44 669	60 324	79 357	102 193	115 170
150	-	-	-	-	-	52 875	70 319	91 392	103 423
160	-	-	-	-	-	-	61 342	80 629	91 704
165	-	-	-	-	-	-	56 897	75 284	85 879

Power input in W

100	3 246	3 923	4 583	5 194	5 723	6 138	6 405	6 493	6 459
110	3 260	3 978	4 697	5 382	6 002	6 523	6 913	7 140	7 181
120	3 192	3 963	4 750	5 520	6 241	6 879	7 403	7 779	7 901
130	-	-	4 740	5 606	6 438	7 204	7 872	8 407	8 616
140	-	-	-	5 636	6 590	7 494	8 316	9 022	9 322
150	-	-	-	-	-	7 747	8 733	9 620	10 017
160	-	-	-	-	-	-	9 120	10 199	10 697
165	-	-	-	-	-	-	9 301	10 479	11 030

Current consumption in A

100	14.31	15.50	16.66	17.76	18.73	19.54	20.12	20.43	20.46
110	14.28	15.56	16.85	18.11	19.29	20.33	21.18	21.79	22.00
120	14.11	15.50	16.95	18.39	19.79	21.09	22.24	23.18	23.56
130	-	-	16.93	18.59	20.23	21.81	23.27	24.57	25.14
140	-	-	-	18.67	20.58	22.47	24.27	25.94	26.71
150	-	-	-	-	-	23.05	25.22	27.29	28.27
160	-	-	-	-	-	-	26.09	28.58	29.79
165	-	-	-	-	-	-	26.49	29.21	30.53

Mass flow in lbs/h

100	269	395	549	737	961	1 227	1 538	1 900	2 102
110	241	366	518	703	924	1 186	1 493	1 850	2 049
120	211	333	483	664	882	1 139	1 442	1 794	1 989
130	-	-	444	622	835	1 087	1 384	1 730	1 922
140	-	-	-	574	782	1 029	1 320	1 659	1 848
150	-	-	-	-	-	966	1 250	1 581	1 766
160	-	-	-	-	-	-	1 173	1 496	1 677
165	-	-	-	-	-	-	1 132	1 451	1 630

Energy Efficiency Ratio (E.E.R.)

100	5.41	6.71	8.19	9.93	12.03	14.63	17.94	22.26	24.95
110	4.57	5.81	7.15	8.68	10.48	12.66	15.37	18.79	20.88
120	3.83	5.02	6.24	7.57	9.11	10.94	13.15	15.90	17.53
130	-	-	5.41	6.58	7.89	9.41	11.23	13.44	14.73
140	-	-	-	5.67	6.78	8.05	9.54	11.33	12.35
150	-	-	-	-	-	6.83	8.05	9.50	10.33
160	-	-	-	-	-	-	6.73	7.91	8.57
165	-	-	-	-	-	-	6.12	7.18	7.79

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

Cooling capacity	77 627	Btu/h	Current consumption	22.56	A
Power input	7 552	W	Mass flow	1 230	lbs/h
E.E.R.	10.28				

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. MTZ125-3
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	32 316	44 215	58 714	76 194	97 036	121 620	150 327	166 345	183 537
100	27 702	38 773	52 220	68 423	87 765	110 623	137 381	152 340	168 417
110	23 102	33 260	45 570	60 413	78 169	99 218	123 942	137 800	152 720
120	18 563	27 724	38 813	52 210	68 297	87 452	110 057	122 773	136 493
130	-	22 213	31 996	43 863	58 195	75 372	95 775	107 305	119 784
140	-	16 772	25 166	35 419	47 912	63 026	81 141	91 443	102 639

Power input in W

90	6 645	7 529	8 324	9 015	9 589	10 033	10 331	10 422	10 472
100	6 683	7 707	8 652	9 506	10 254	10 883	11 380	11 573	11 729
110	6 646	7 812	8 912	9 932	10 857	11 675	12 372	12 670	12 934
120	6 511	7 823	9 079	10 268	11 374	12 384	13 284	13 689	14 061
130	-	7 713	9 130	10 490	11 780	12 986	14 093	14 605	15 088
140	-	7 459	9 040	10 575	12 052	13 456	14 773	15 395	15 990

Current consumption in A

90	21.08	23.24	25.12	26.83	28.46	30.11	31.86	32.80	33.81
100	21.19	23.76	26.03	28.10	30.06	32.01	34.04	35.12	36.25
110	20.99	24.02	26.72	29.19	31.53	33.82	36.17	37.40	38.67
120	20.47	23.99	27.16	30.08	32.83	35.51	38.22	39.62	41.06
130	-	23.67	27.35	30.74	33.95	37.07	40.18	41.76	43.38
140	-	23.02	27.25	31.17	34.88	38.46	42.01	43.81	45.63

Mass flow in lbs/h

90	669	890	1 148	1 448	1 794	2 192	2 649	2 900	3 168
100	623	846	1 103	1 402	1 747	2 143	2 597	2 846	3 113
110	572	794	1 051	1 348	1 691	2 085	2 535	2 783	3 047
120	513	735	991	1 286	1 627	2 017	2 464	2 710	2 972
130	-	667	922	1 215	1 552	1 940	2 382	2 626	2 885
140	-	591	843	1 134	1 468	1 852	2 289	2 530	2 787

Energy Efficiency Ratio (E.E.R.)

90	4.86	5.87	7.05	8.45	10.12	12.12	14.55	15.96	17.53
100	4.15	5.03	6.04	7.20	8.56	10.16	12.07	13.16	14.36
110	3.48	4.26	5.11	6.08	7.20	8.50	10.02	10.88	11.81
120	2.85	3.54	4.27	5.08	6.00	7.06	8.28	8.97	9.71
130	-	2.88	3.50	4.18	4.94	5.80	6.80	7.35	7.94
140	-	2.25	2.78	3.35	3.98	4.68	5.49	5.94	6.42

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

Cooling capacity	68 297	Btu/h	Current consumption	32.83	A
Power input	11 374	W	Mass flow	1 627	lbs/h
E.E.R.	6.00				

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	86	dB(A)
With acoustic hood	80	dB(A)

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	22 672	34 430	49 229	67 510	89 711	116 269	147 621	165 232	184 204
100	19 008	29 897	43 617	60 607	81 305	106 150	135 578	152 148	170 028
110	15 506	25 490	38 092	53 753	72 912	96 007	123 476	138 987	155 755
120	-	21 269	32 718	47 014	64 596	85 904	111 376	125 810	141 448
130	-	-	27 557	40 450	56 420	75 904	99 342	112 680	127 171
140	-	-	-	34 127	48 446	66 070	87 437	99 662	112 987

Power input in W

90	4 789	5 744	6 643	7 466	8 193	8 805	9 281	9 462	9 601
100	4 752	5 815	6 837	7 799	8 680	9 461	10 122	10 401	10 643
110	4 663	5 834	6 981	8 083	9 120	10 072	10 920	11 298	11 643
120	-	5 810	7 083	8 326	9 520	10 644	11 680	12 158	12 607
130	-	-	7 148	8 534	9 887	11 185	12 410	12 989	13 542
140	-	-	-	8 715	10 227	11 701	13 117	13 797	14 455

Current consumption in A

90	18.06	19.86	21.66	23.39	24.96	26.27	27.25	27.58	27.80
100	18.22	20.13	22.11	24.08	25.95	27.64	29.06	29.64	30.12
110	18.31	20.35	22.53	24.76	26.96	29.04	30.92	31.75	32.50
120	-	20.47	22.87	25.38	27.93	30.42	32.77	33.87	34.89
130	-	-	23.07	25.89	28.80	31.72	34.56	35.93	37.25
140	-	-	-	26.22	29.51	32.88	36.24	37.89	39.51

Mass flow in lbs/h

90	353	526	735	987	1 285	1 634	2 040	2 266	2 508
100	315	484	690	938	1 232	1 578	1 979	2 203	2 442
110	275	440	642	886	1 175	1 516	1 913	2 134	2 371
120	-	395	592	831	1 115	1 451	1 842	2 060	2 294
130	-	-	540	773	1 052	1 381	1 766	1 981	2 212
140	-	-	-	713	986	1 308	1 687	1 898	2 125

Energy Efficiency Ratio (E.E.R.)

90	4.73	5.99	7.41	9.04	10.95	13.21	15.91	17.46	19.19
100	4.00	5.14	6.38	7.77	9.37	11.22	13.39	14.63	15.98
110	3.33	4.37	5.46	6.65	8.00	9.53	11.31	12.30	13.38
120	-	3.66	4.62	5.65	6.79	8.07	9.54	10.35	11.22
130	-	-	3.86	4.74	5.71	6.79	8.00	8.68	9.39
140	-	-	-	3.92	4.74	5.65	6.67	7.22	7.82

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

Cooling capacity	64 596	Btu/h	Current consumption	27.93	A
Power input	9 520	W	Mass flow	1 115	lbs/h
E.E.R.	6.79				

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	86	dB(A)
With acoustic hood	80	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	66 705	87 784	99 848	113 018	127 362	142 949	159 846	178 122	197 844
110	60 384	80 056	91 256	103 456	116 724	131 128	146 735	163 614	181 834
120	-	72 422	82 821	94 112	106 365	119 647	134 026	149 571	166 349
130	-	64 788	74 447	84 892	96 192	108 414	121 627	135 899	151 297
140	-	-	66 041	75 702	86 110	97 334	109 443	122 503	136 584
150	-	-	-	-	76 026	86 314	97 380	109 291	122 116

Power input in W

100	7 898	8 723	9 100	9 456	9 792	10 111	10 415	10 705	10 984
110	8 241	9 207	9 651	10 073	10 472	10 853	11 216	11 564	11 898
120	-	9 659	10 178	10 672	11 143	11 593	12 024	12 437	12 835
130	-	10 085	10 687	11 262	11 812	12 339	12 844	13 330	13 799
140	-	-	11 186	11 849	12 486	13 097	13 685	14 252	14 799
150	-	-	-	-	13 172	13 875	14 553	15 208	15 842

Current consumption in A

100	24.37	26.59	27.60	28.52	29.36	30.12	30.79	31.36	31.84
110	25.33	27.99	29.19	30.31	31.33	32.25	33.06	33.78	34.37
120	-	29.25	30.76	32.17	33.46	34.65	35.72	36.67	37.50
130	-	30.14	32.06	33.86	35.53	37.09	38.51	39.81	40.96
140	-	-	32.84	35.14	37.30	39.32	41.20	42.94	44.53
150	-	-	-	-	38.50	41.10	43.54	45.83	47.95

Mass flow in lbs/h

100	878	1 135	1 280	1 436	1 605	1 788	1 984	2 194	2 420
110	837	1 089	1 230	1 382	1 546	1 722	1 912	2 115	2 332
120	-	1 040	1 178	1 327	1 486	1 657	1 841	2 037	2 247
130	-	988	1 124	1 269	1 425	1 591	1 769	1 959	2 163
140	-	-	1 065	1 208	1 360	1 522	1 696	1 880	2 077
150	-	-	-	-	1 291	1 450	1 619	1 799	1 990

Energy Efficiency Ratio (E.E.R.)

100	8.45	10.06	10.97	11.95	13.01	14.14	15.35	16.64	18.01
110	7.33	8.70	9.46	10.27	11.15	12.08	13.08	14.15	15.28
120	-	7.50	8.14	8.82	9.55	10.32	11.15	12.03	12.96
130	-	6.42	6.97	7.54	8.14	8.79	9.47	10.19	10.96
140	-	-	5.90	6.39	6.90	7.43	8.00	8.60	9.23
150	-	-	-	-	5.77	6.22	6.69	7.19	7.71

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

Cooling capacity	121 627	Btu/h	Current consumption	38.51	A
Power input	12 844	W	Mass flow	1 769	lbs/h
E.E.R.	9.47				

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	89	dB(A)
With acoustic hood	83	dB(A)

Datasheet, performance data
Maneurop reciprocating compressor. MTZ125-3
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	-	37 011	53 399	73 697	98 431	128 123	163 299	183 107	204 482
100	-	31 540	46 240	64 487	86 808	113 728	145 769	163 874	183 456
110	-	27 142	40 451	56 944	77 149	101 590	130 793	147 343	165 280
120	-	-	35 797	50 832	69 217	91 476	118 136	133 279	149 719
130	-	-	-	45 916	62 777	83 151	107 564	121 448	136 539
140	-	-	-	-	-	-	-	-	-

Power input in W

90	-	6 100	7 019	7 880	8 628	9 209	9 567	9 646	9 648
100	-	6 214	7 229	8 225	9 149	9 946	10 561	10 783	10 939
110	-	6 349	7 436	8 546	9 624	10 614	11 463	11 817	12 115
120	-	-	7 684	8 885	10 093	11 255	12 315	12 790	13 219
130	-	-	-	9 282	10 599	11 910	13 159	13 744	14 292
140	-	-	-	-	-	-	-	-	-

Current consumption in A

90	-	20.05	21.98	23.84	25.49	26.82	27.70	27.92	27.99
100	-	20.47	22.57	24.68	26.67	28.42	29.79	30.30	30.67
110	-	20.74	23.03	25.41	27.75	29.94	31.84	32.64	33.32
120	-	-	23.46	26.13	28.86	31.50	33.95	35.05	36.06
130	-	-	-	26.96	30.09	33.22	36.23	37.65	38.99
140	-	-	-	-	-	-	-	-	-

Mass flow in lbs/h

90	-	500	709	961	1 263	1 619	2 035	2 266	2 515
100	-	450	647	886	1 173	1 511	1 908	2 130	2 368
110	-	411	600	828	1 102	1 427	1 808	2 021	2 250
120	-	-	566	787	1 052	1 366	1 733	1 939	2 160
130	-	-	-	763	1 021	1 327	1 685	1 885	2 100
140	-	-	-	-	-	-	-	-	-

Energy Efficiency Ratio (E.E.R.)

90	-	6.07	7.61	9.35	11.41	13.91	17.07	18.98	21.19
100	-	5.08	6.40	7.84	9.49	11.43	13.80	15.20	16.77
110	-	4.28	5.44	6.66	8.02	9.57	11.41	12.47	13.64
120	-	-	4.66	5.72	6.86	8.13	9.59	10.42	11.33
130	-	-	-	4.95	5.92	6.98	8.17	8.84	9.55
140	-	-	-	-	-	-	-	-	-

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

Cooling capacity	69 217	Btu/h	Current consumption	28.86	A
Power input	10 093	W	Mass flow	1 052	lbs/h
E.E.R.	6.86				

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	86	dB(A)
With acoustic hood	80	dB(A)

Datasheet, performance data
Maneurop reciprocating compressor. MTZ125-3
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	42 291	59 355	81 303	108 710	-	-	-	-	-
60	37 949	53 917	74 467	100 174	131 614	-	-	-	-
70	33 782	48 658	67 814	91 827	121 270	156 717	-	-	-
80	29 793	43 581	61 348	83 670	111 121	144 275	183 706	-	-
100	22 365	33 991	48 992	67 945	91 425	120 006	154 263	173 699	194 769
120	-	25 175	37 428	53 029	72 554	96 579	125 680	142 313	160 430
140	-	-	-	-	54 538	74 025	97 988	111 827	127 000

Power input in W

50	4 867	5 328	5 599	5 633	-	-	-	-	-
60	5 156	5 759	6 204	6 443	6 427	-	-	-	-
70	5 368	6 104	6 712	7 145	7 355	7 293	-	-	-
80	5 513	6 372	7 134	7 751	8 176	8 360	8 256	-	-
100	5 651	6 723	7 762	8 717	9 543	10 189	10 609	10 719	10 754
120	-	6 903	8 177	9 431	10 616	11 685	12 589	12 964	13 280
140	-	-	-	-	11 486	12 936	14 284	14 904	15 480

Current consumption in A

50	23.96	25.59	26.89	27.72	-	-	-	-	-
60	22.84	24.43	25.77	26.73	27.19	-	-	-	-
70	22.16	23.73	25.13	26.24	26.93	27.08	-	-	-
80	21.84	23.40	24.88	26.16	27.10	27.59	27.48	-	-
100	21.86	23.46	25.15	26.82	28.32	29.54	30.34	30.55	30.60
120	-	23.84	25.82	27.94	30.08	32.10	33.88	34.64	35.29
140	-	-	-	-	31.60	34.50	37.33	38.68	39.97

Mass flow in lbs/h

50	520	720	966	1 267	-	-	-	-	-
60	489	684	926	1 220	1 575	-	-	-	-
70	457	647	883	1 172	1 519	1 931	-	-	-
80	424	609	840	1 121	1 461	1 865	2 339	-	-
100	357	531	749	1 016	1 339	1 725	2 180	2 435	2 710
120	-	450	653	904	1 209	1 575	2 009	2 253	2 516
140	-	-	-	-	1 072	1 417	1 828	2 059	2 310

Energy Efficiency Ratio (E.E.R.)

50	8.69	11.14	14.52	19.30	-	-	-	-	-
60	7.36	9.36	12.00	15.55	20.48	-	-	-	-
70	6.29	7.97	10.10	12.85	16.49	21.49	-	-	-
80	5.40	6.84	8.60	10.79	13.59	17.26	22.25	-	-
100	3.96	5.06	6.31	7.79	9.58	11.78	14.54	16.20	18.11
120	-	3.65	4.58	5.62	6.83	8.27	9.98	10.98	12.08
140	-	-	-	-	4.75	5.72	6.86	7.50	8.20

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

Cooling capacity	72 554	Btu/h	Current consumption	30.08	A
Power input	10 616	W	Mass flow	1 209	lbs/h
E.E.R.	6.83				

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	87	dB(A)
With acoustic hood	81	dB(A)

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Datasheet, performance data
Maneurop reciprocating compressor. MTZ125-3
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	42 294	59 359	81 308	108 716	-	-	-	-	-
60	37 952	53 921	74 472	100 181	131 622	-	-	-	-
70	33 785	48 662	67 819	91 833	121 278	156 727	-	-	-
80	29 796	43 585	61 354	83 676	111 129	144 285	183 719	-	-
100	22 367	33 995	48 998	67 952	91 433	120 016	154 276	173 713	194 785
120	-	25 178	37 433	53 035	72 563	96 590	125 693	142 328	160 446
140	-	-	-	-	54 547	74 036	98 001	111 841	127 016

Power input in W

50	4 867	5 328	5 599	5 633	-	-	-	-	-
60	5 156	5 759	6 204	6 443	6 427	-	-	-	-
70	5 368	6 104	6 712	7 145	7 355	7 293	-	-	-
80	5 513	6 372	7 134	7 751	8 176	8 360	8 256	-	-
100	5 651	6 723	7 762	8 717	9 543	10 189	10 609	10 719	10 754
120	-	6 903	8 177	9 431	10 616	11 685	12 589	12 964	13 280
140	-	-	-	-	11 486	12 936	14 284	14 904	15 480

Current consumption in A

50	23.96	25.59	26.89	27.72	-	-	-	-	-
60	22.84	24.43	25.77	26.73	27.19	-	-	-	-
70	22.16	23.73	25.13	26.24	26.93	27.08	-	-	-
80	21.84	23.40	24.88	26.16	27.10	27.59	27.48	-	-
100	21.86	23.46	25.15	26.82	28.32	29.54	30.34	30.55	30.60
120	-	23.84	25.82	27.94	30.08	32.10	33.88	34.64	35.29
140	-	-	-	-	31.60	34.50	37.33	38.68	39.97

Mass flow in lbs/h

50	502	721	985	1 300	-	-	-	-	-
60	475	686	943	1 249	1 614	-	-	-	-
70	447	651	899	1 198	1 554	1 973	-	-	-
80	419	615	856	1 146	1 493	1 904	2 384	-	-
100	360	541	765	1 038	1 368	1 760	2 221	2 480	2 758
120	-	462	669	925	1 236	1 609	2 051	2 300	2 568
140	-	-	-	-	1 096	1 450	1 871	2 110	2 367

Energy Efficiency Ratio (E.E.R.)

50	8.69	11.14	14.52	19.30	-	-	-	-	-
60	7.36	9.36	12.00	15.55	20.48	-	-	-	-
70	6.29	7.97	10.10	12.85	16.49	21.49	-	-	-
80	5.40	6.84	8.60	10.80	13.59	17.26	22.25	-	-
100	3.96	5.06	6.31	7.79	9.58	11.78	14.54	16.21	18.11
120	-	3.65	4.58	5.62	6.83	8.27	9.98	10.98	12.08
140	-	-	-	-	4.75	5.72	6.86	7.50	8.21

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

Cooling capacity	72 563	Btu/h	Current consumption	30.08	A
Power input	10 616	W	Mass flow	1 236	lbs/h
E.E.R.	6.83				

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	87	dB(A)
With acoustic hood	81	dB(A)

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Datasheet, performance data
Maneurop reciprocating compressor. MTZ125-3
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	48 122	64 758	86 086	112 635	-	-	-	-	-
60	43 807	59 670	79 899	105 020	135 561	-	-	-	-
70	39 475	54 518	73 598	97 243	125 981	160 337	-	-	-
80	35 133	49 307	67 190	89 312	116 198	148 376	186 371	-	-
100	26 444	38 737	54 084	73 012	96 051	123 728	156 569	175 090	195 099
120	17 797	28 017	40 633	56 176	75 175	98 158	125 653	141 257	158 186
140	-	-	-	38 859	53 626	71 724	93 683	106 276	120 031

Power input in W

50	5 091	5 503	5 793	5 963	-	-	-	-	-
60	5 504	6 036	6 442	6 725	6 883	-	-	-	-
70	5 868	6 534	7 070	7 479	7 760	7 915	-	-	-
80	6 167	6 979	7 659	8 207	8 624	8 912	9 070	-	-
100	6 495	7 642	8 649	9 518	10 247	10 840	11 296	11 473	11 616
120	6 346	7 883	9 272	10 514	11 611	12 563	13 371	13 721	14 036
140	-	-	-	11 055	12 573	13 939	15 153	15 704	16 217

Current consumption in A

50	23.06	23.86	24.52	25.03	-	-	-	-	-
60	22.26	23.14	23.90	24.50	24.91	-	-	-	-
70	21.86	22.87	23.76	24.50	25.05	25.39	-	-	-
80	21.73	22.91	23.98	24.90	25.65	26.17	26.46	-	-
100	21.81	23.47	25.03	26.45	27.70	28.74	29.55	29.85	30.09
120	21.52	23.84	26.06	28.15	30.08	31.82	33.32	33.98	34.57
140	-	-	-	29.03	31.82	34.42	36.80	37.90	38.93

Mass flow in lbs/h

50	761	1 012	1 318	1 687	-	-	-	-	-
60	731	981	1 284	1 649	2 082	-	-	-	-
70	699	947	1 248	1 608	2 035	2 536	-	-	-
80	664	911	1 208	1 563	1 983	2 476	3 049	-	-
100	579	823	1 114	1 459	1 865	2 341	2 894	3 201	3 530
120	468	709	993	1 327	1 720	2 178	2 710	3 005	3 321
140	-	-	-	1 161	1 540	1 980	2 490	2 773	3 076

Energy Efficiency Ratio (E.E.R.)

50	9.45	11.77	14.86	18.89	-	-	-	-	-
60	7.96	9.89	12.40	15.62	19.69	-	-	-	-
70	6.73	8.34	10.41	13.00	16.24	20.26	-	-	-
80	5.70	7.06	8.77	10.88	13.47	16.65	20.55	-	-
100	4.07	5.07	6.25	7.67	9.37	11.41	13.86	15.26	16.80
120	2.80	3.55	4.38	5.34	6.47	7.81	9.40	10.30	11.27
140	-	-	-	3.51	4.27	5.15	6.18	6.77	7.40

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

Cooling capacity	75 175	Btu/h	Current consumption	30.08	A
Power input	11 611	W	Mass flow	1 720	lbs/h
E.E.R.	6.47				

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	87	dB(A)
With acoustic hood	81	dB(A)

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