

# Model: MTZ56

## Data

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**Type:** Hermetic piston compressors  
**Producer:** Danfoss-Maneurop  
**Series:** MTZ

## Model: MTZ56

### Technical data

Cylinder count:	2
Displacement [m <sup>3</sup> /h]:	16,73
Cylinder capacity [cm <sup>3</sup> ]:	96,1
RPM [min <sup>-1</sup> ]:	2900
Weight [kg]:	37
Oil charge [dm <sup>3</sup> ]:	2
Oil type:	160PZ
Crankcase heater type:	PTC 35 W
Maximum system test pressure low side / high side:	25 / 30
Maximum number of starts without softstart [1/h]:	12
Refrigerant charge limit [dm <sup>3</sup> ]:	5
Refrigerant:	R134a, 404A/R507, R407C
Sound power [dB]:	81
Sound power with acoustic hood [dB]:	74

### Connections

	<u>inches</u>
Suction Rotolock valve connection:	1 3/4"
Discharge Rotolock valve connection:	1 1/4"
Suction connection with supplied sleeve:	7/8"
Discharge connection with supplied sleeve:	3/4"

### Approvals

CCC	-
CE	+
UL	+

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## Capacity

R404A/R507

### Cooling capacity [W]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5	10
30	3 487	4 805	6 438	8 424	10 801	13 608	16 883	20 664	24 991
35	2 894	4 170	5 733	7 620	9 871	12 523	15 616	19 187	23 275
40	2 366	3 581	5 053	6 823	8 928	11 406	14 297	17 638	21 468
45	1 912	3 045	4 408	6 041	7 980	10 265	12 934	16 025	19 578
50	1 539	2 572	3 806	5 281	7 036	9 107	11 535	14 358	17 613
55	-	2 169	3 255	4 554	6 104	7 943	10 110	12 643	15 582
60	-	1 845	2 764	3 866	5 192	6 779	8 666	10 891	13 493

### Power input [W]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5	10
30	2 204	2 563	2 908	3 225	3 501	3 724	3 881	3 958	3 943
35	2 302	2 672	3 034	3 375	3 682	3 942	4 143	4 272	4 315
40	2 369	2 753	3 137	3 506	3 849	4 152	4 402	4 587	4 692
45	2 404	2 808	3 219	3 622	4 004	4 354	4 658	4 904	5 077
50	2 410	2 838	3 280	3 721	4 149	4 551	4 913	5 224	5 469
55	-	2 844	3 322	3 806	4 284	4 742	5 168	5 549	5 871
60	-	2 828	3 346	3 878	4 410	4 929	5 424	5 879	6 284

### Current [A]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5	10
30	4.78	5.20	5.61	5.98	6.31	6.58	6.77	6.88	6.89
35	4.95	5.38	5.81	6.22	6.59	6.91	7.17	7.34	7.43
40	5.06	5.52	5.98	6.42	6.84	7.22	7.55	7.80	7.97
45	5.13	5.61	6.11	6.60	7.07	7.52	7.92	8.26	8.52
50	5.14	5.66	6.20	6.74	7.28	7.80	8.28	8.71	9.07
55	-	5.66	6.25	6.85	7.46	8.05	8.62	9.15	9.62
60	-	5.62	6.26	6.93	7.62	8.30	8.96	9.59	10.17

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## Capacity

### Mass flow [kg/s]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5	10
30	98.16	133.72	175.27	223.54	279.25	343.12	415.87	498.21	590.88
35	85.95	122.40	164.71	213.59	269.77	333.96	406.89	489.27	581.84
40	75.77	112.54	155.02	203.93	259.99	323.93	396.47	478.32	570.20
45	67.58	104.09	146.17	194.53	249.91	313.02	384.58	465.32	555.95
50	61.37	97.04	138.14	185.39	239.50	301.20	371.22	450.26	539.06
55	-	91.37	130.91	176.46	228.73	288.45	356.34	433.12	519.51
60	-	87.06	124.46	167.73	217.59	274.75	339.93	413.86	497.27

### C.O.P. [W/W]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5	10
30	1.58	1.87	2.21	2.61	3.08	3.65	4.35	5.22	6.34
35	1.26	1.56	1.89	2.26	2.68	3.18	3.77	4.49	5.39
40	1.00	1.30	1.61	1.95	2.32	2.75	3.25	3.85	4.57
45	0.80	1.08	1.37	1.67	1.99	2.36	2.78	3.27	3.86
50	0.64	0.91	1.16	1.42	1.70	2.00	2.35	2.75	3.22
55	-	0.76	0.98	1.20	1.42	1.68	1.96	2.28	2.65
60	-	0.65	0.83	1.00	1.18	1.38	1.60	1.85	2.15

Operating conditions: suction superheat: 11.1 K, subcooling: 8.3 K

$t_c$  - Condensing temperature [°C]

$t_e$  - Evaporating temperature [°C]

### Application range

