

# Model: MTZ64

## Data

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

## Model: MTZ64

### Technical data

Cylinder count:	2
Displacement [m <sup>3</sup> /h]:	18,74
Cylinder capacity [cm <sup>3</sup> ]:	107,7
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]:	80
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	4 239	5 730	7 568	9 797	12 457	15 590	19 239	23 444	28 249
35	3 534	4 979	6 741	8 862	11 385	14 350	17 800	21 777	26 322
40	2 925	4 303	5 967	7 960	10 324	13 100	16 331	20 057	24 322
45	2 407	3 696	5 242	7 085	9 269	11 835	14 825	18 280	22 243
50	1 974	3 154	4 560	6 233	8 216	10 551	13 278	16 441	20 081
55	-	2 672	3 917	5 398	7 159	9 241	11 686	14 535	17 832
60	-	2 245	3 308	4 577	6 094	7 903	10 043	12 558	15 489

### Power input [W]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5	10
30	2 509	2 904	3 287	3 646	3 966	4 237	4 443	4 574	4 615
35	2 629	3 035	3 435	3 818	4 171	4 480	4 733	4 917	5 019
40	2 715	3 136	3 560	3 973	4 362	4 716	5 020	5 262	5 429
45	2 765	3 207	3 658	4 106	4 538	4 940	5 300	5 606	5 843
50	2 777	3 244	3 728	4 216	4 695	5 151	5 573	5 947	6 260
55	-	3 246	3 768	4 300	4 831	5 347	5 835	6 282	6 675
60	-	3 211	3 775	4 357	4 945	5 524	6 084	6 609	7 088

### Current [A]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5	10
30	5.83	6.30	6.75	7.18	7.57	7.90	8.17	8.36	8.45
35	5.97	6.45	6.93	7.40	7.83	8.22	8.55	8.81	8.98
40	6.06	6.57	7.08	7.59	8.07	8.52	8.92	9.27	9.53
45	6.12	6.65	7.20	7.75	8.30	8.82	9.29	9.72	10.08
50	6.13	6.70	7.29	7.90	8.51	9.10	9.66	10.19	10.65
55	-	6.71	7.36	8.03	8.71	9.38	10.03	10.66	11.23
60	-	6.69	7.40	8.14	8.90	9.66	10.41	11.14	11.83

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## Capacity

### Mass flow [kg/s]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5	10
30	117.64	157.63	204.23	258.23	320.42	391.58	472.50	563.95	666.72
35	104.87	145.87	193.34	248.06	310.81	382.37	463.53	555.07	657.78
40	94.09	135.54	183.29	238.14	300.86	372.23	453.06	544.11	646.17
45	85.23	126.53	173.98	228.37	290.47	361.09	440.99	530.96	631.78
50	78.18	118.74	165.31	218.65	279.56	348.82	427.22	515.52	614.53
55	-	112.09	157.19	208.91	268.03	335.35	411.65	497.71	594.32
60	-	106.48	149.51	199.02	255.78	320.58	394.20	477.43	571.05

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

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5	10
30	1.69	1.97	2.30	2.69	3.14	3.68	4.33	5.13	6.12
35	1.34	1.64	1.96	2.32	2.73	3.20	3.76	4.43	5.24
40	1.08	1.37	1.68	2.00	2.37	2.78	3.25	3.81	4.48
45	0.87	1.15	1.43	1.73	2.04	2.40	2.80	3.26	3.81
50	0.71	0.97	1.22	1.48	1.75	2.05	2.38	2.76	3.21
55	-	0.82	1.04	1.26	1.48	1.73	2.00	2.31	2.67
60	-	0.70	0.88	1.05	1.23	1.43	1.65	1.90	2.19

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

$t_c$  - Condensing temperature [°C]

$t_e$  - Evaporating temperature [°C]

### Application range

