

# Model: MT125

## Data

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**Type: Hermetic piston compressors**

**Producer: Maneurop**

**Series: MT**

## Model: MT125

### Technical data

Cylinder count:	4
Displacement [m <sup>3</sup> /h]:	37,49
Cylinder capacity [cm <sup>3</sup> ]:	215,4
RPM [min <sup>-1</sup> ]:	2900
Weight [kg]:	64
Oil charge [dm <sup>3</sup> ]:	4
Oil type:	160P
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> ]:	10
Refrigerant:	R22
Sound power [dB]:	84
Sound power with accoustic hood [dB]:	78

### Connections

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

### Approvals

CCC	+
CE	+
UL	+

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## Capacity

R22

### Cooling capacity [W]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
30	9 340	12 422	16 140	20 578	25 819	31 943	39 035	47 177	56 450
35	8 375	11 342	14 909	19 159	24 175	30 039	36 833	44 641	53 545
40	7 489	10 316	13 708	17 746	22 514	28 093	34 566	42 016	50 525
45	6 693	9 358	12 550	16 352	20 847	26 117	32 245	39 313	47 404
50	-	8 477	11 445	14 988	19 186	24 123	29 882	36 544	44 192
55	-	-	10 407	13 665	17 543	22 123	27 487	33 720	40 901
60	-	-	-	12 396	15 929	20 127	25 074	30 852	37 544
65	-	-	-	-	14 355	18 149	22 654	27 954	34 130

### Power input [W]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
30	4 821	5 395	5 939	6 430	6 848	7 172	7 381	7 453	7 367
35	5 081	5 689	6 276	6 822	7 305	7 705	7 999	8 168	8 189
40	5 301	5 950	6 588	7 196	7 752	8 234	8 622	8 894	9 030
45	5 476	6 173	6 870	7 547	8 182	8 754	9 243	9 626	9 884
50	-	6 352	7 115	7 868	8 590	9 259	9 856	10 358	10 744
55	-	-	7 316	8 153	8 969	9 743	10 454	11 082	11 604
60	-	-	-	8 396	9 313	10 199	11 033	11 793	12 459
65	-	-	-	-	9 617	10 622	11 585	12 485	13 301

### Current [A]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
30	8.57	9.27	9.98	10.66	11.26	11.74	12.05	12.15	11.99
35	8.90	9.65	10.44	11.21	11.92	12.53	12.99	13.26	13.29
40	9.18	10.00	10.88	11.75	12.59	13.35	13.97	14.43	14.66
45	9.40	10.31	11.28	12.28	13.26	14.18	14.98	15.63	16.08
50	-	10.56	11.65	12.78	13.91	15.00	16.00	16.86	17.54
55	-	-	11.95	13.24	14.54	15.81	17.01	18.10	19.02
60	-	-	-	13.63	15.11	16.59	18.01	19.33	20.52
65	-	-	-	-	15.64	17.32	18.98	20.55	22.01

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Capacity

## Mass flow [kg/s]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
30	191.04	251.49	322.49	405.50	501.95	613.30	741.00	886.49	1 051.23
35	176.96	237.38	308.20	390.87	486.85	597.57	724.48	869.05	1 032.71
40	164.23	223.91	293.85	375.48	470.27	579.65	705.08	848.00	1 009.87
45	153.10	211.34	279.68	359.57	452.45	559.79	683.02	823.60	982.98
50	-	199.90	265.93	343.37	433.66	538.24	658.57	796.09	952.26
55	-	-	252.87	327.14	414.12	515.24	631.96	765.72	917.98
60	-	-	-	311.13	394.08	491.03	603.43	732.73	880.37
65	-	-	-	-	373.79	465.87	573.25	697.36	839.68

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

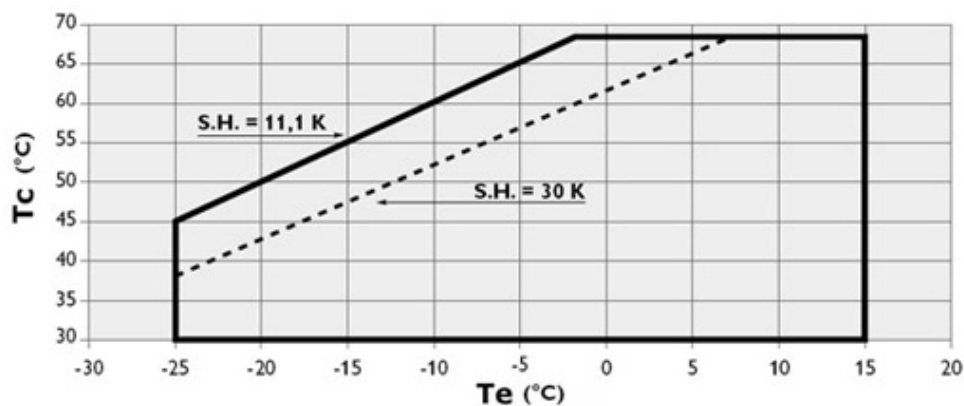
$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
30	1.94	2.30	2.72	3.20	3.77	4.45	5.29	6.33	7.66
35	1.65	1.99	2.38	2.81	3.31	3.90	4.60	5.47	6.54
40	1.41	1.73	2.08	2.47	2.90	3.41	4.01	4.72	5.60
45	1.22	1.52	1.83	2.17	2.55	2.98	3.49	4.08	4.80
50	-	1.33	1.61	1.90	2.23	2.61	3.03	3.53	4.11
55	-	-	1.42	1.68	1.96	2.27	2.63	3.04	3.52
60	-	-	-	1.48	1.71	1.97	2.27	2.62	3.01
65	-	-	-	-	1.49	1.71	1.96	2.24	2.57

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

$t_c$  - Condensing temperature [°C]

$t_e$  - Evaporating temperature [°C]

## Application range



### **Equipment**

- ▶ crankcase heater - PTC 35 W
- ▶ belt type heater - crankcase heater 75W, 230V
- ▶ Rotolock valves
  - suction: Rotolock valve connection 1 3/4", connection with supplied sleeve 1 1/8"
  - discharge: Rotolock valve connection 1 1/4", connection with supplied sleeve 3/4"
- ▶ soft-start kit - electronic softstart MCI 25C
- ▶ acoustic hood - acoustic shield of Danfoss catalogue number 7755003