

# Model: MTZ 144 HV

## Data

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Type: Hermetic piston compressors

Producer: Maneurop

Series: MTZ

## Model: MTZ 144 HV

### Technical data

Nominal motor power [kW]:	16,31
Cylinder count:	4
Displacement [m <sup>3</sup> /h]:	42,09
Cylinder capacity [cm <sup>3</sup> ]:	241,87
RPM [min <sup>-1</sup> ]:	2900
Weight [kg]:	67
Oil charge [dm <sup>3</sup> ]:	3,9

### Connections

	<u>milimeters</u>	<u>inches</u>
Króciec ssawny:	28	1 1/8"
Discharge line:	19	3/4"

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## Capacity

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R404A/R507

### Cooling capacity [W]

$t_c \setminus t_e$	10	5	0	-5	-10	-15	-20	-25	-30
30	56 360	46 700	38 300	31 080	24 940	19 780	15 500	12 020	9 230
40	47 830	39 360	32 030	25 740	20 390	15 890	12 150	9 070	6 560
50	38 480	31 400	25 310	20 120	15 740	12 080	9 040	6 530	4 470
60	28 310	22 820	18 170	14 270	11 040	8 380	6 210	4 450	0

### Power input [kW]

$t_c \setminus t_e$	10	5	0	-5	-10	-15	-20	-25	-30
30	10.10	9.91	9.58	9.13	8.58	7.95	7.26	6.53	5.79
40	11.69	11.26	10.72	10.08	9.37	8.61	7.81	7.01	6.22
50	13.36	12.66	11.86	11.00	10.09	9.16	8.22	7.30	6.42
60	15.11	14.09	13.00	11.88	10.74	9.59	8.48	7.40	0.00

Operating conditions: 11.1K suction superheat, 8.3K subcooling

$t_c$  - Condensing temperature [°C]

$t_e$  - Evaporating temperature [°C]