



Producer: **Danfoss**

Line: **MTZ**

Model: **MTZ050-4**

Cooling capacity [kW]: **6.26**

Displacement [m<sup>3</sup>/h]: **14.9**

Refrigerant: **R134a, R404A, R407A, R407C, R407F, R448A, R449A, R452A, R513A**

Capacity control: **None**

Power supply: **400V/3Ph/50Hz**

## Data

### Technical data

Displacement	[m <sup>3</sup> /h]	14.9
Swept volume	[cm <sup>3</sup> ]	85.64
Cylinders quantity		2
Oil charge	[l]	1.80
Oil type		175PZ
Internal free volume (suction)	[dm <sup>3</sup> ]	16.5
Internal free volume (discharge)	[dm <sup>3</sup> ]	0.6
Net weight	[kg]	31.51
Gross weight	[kg]	34.00

### Electrical data

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	12.0
Locked rotor amperage	[A]	47.0
Revolutions per minute	[RPM]	2900
Motor resistance main	[Ω]	3.42

### Limits

Maximum suction pressure	[bar]	22.6
Maximum discharge pressure	[bar]	29.4
Maximum suction temperature	[°C]	50.0
Minimum suction temperature	[°C]	-35.0
Maximum discharge temperature	[°C]	150.0
Minimal discharge temperature	[°C]	-35.0

## Dimensions

Suction valve diameter	[inch]	7/8
Discharge valve diameter	[inch]	3/4
Suction connection thread diameter	[inch]	1 3/4
Discharge connection thread diameter	[inch]	1 1/4
Diameter	[mm]	288
Height	[mm]	413
Oil equalization		3/8" Flare SAE

## Other

Product codes	MTZ50-4VI, MTZ50-4VM
Approved refrigerants	R134a, R404A, R407A, R407C, R407F, R448A, R449A, R452A, R513A
Capacity control	None
Protection rating <sup>1</sup>	IP55
Glass mounting	Threaded

## Shipped equipment

Motor protection	Internal overload protector
Shipped fittings	Suction and discharge solder sleeves, rotolock nuts and gaskets
Shipped mounting	Mounting kit with grommets, bolts, nuts, sleeves and washers

<sup>1</sup> With cable gland.

## Performance

Nominal conditions: refrigerant: R404A, evaporation: -10°C (dew point), condensation: 45°C (dew point), superheating: 10K, subcooling: 0°C

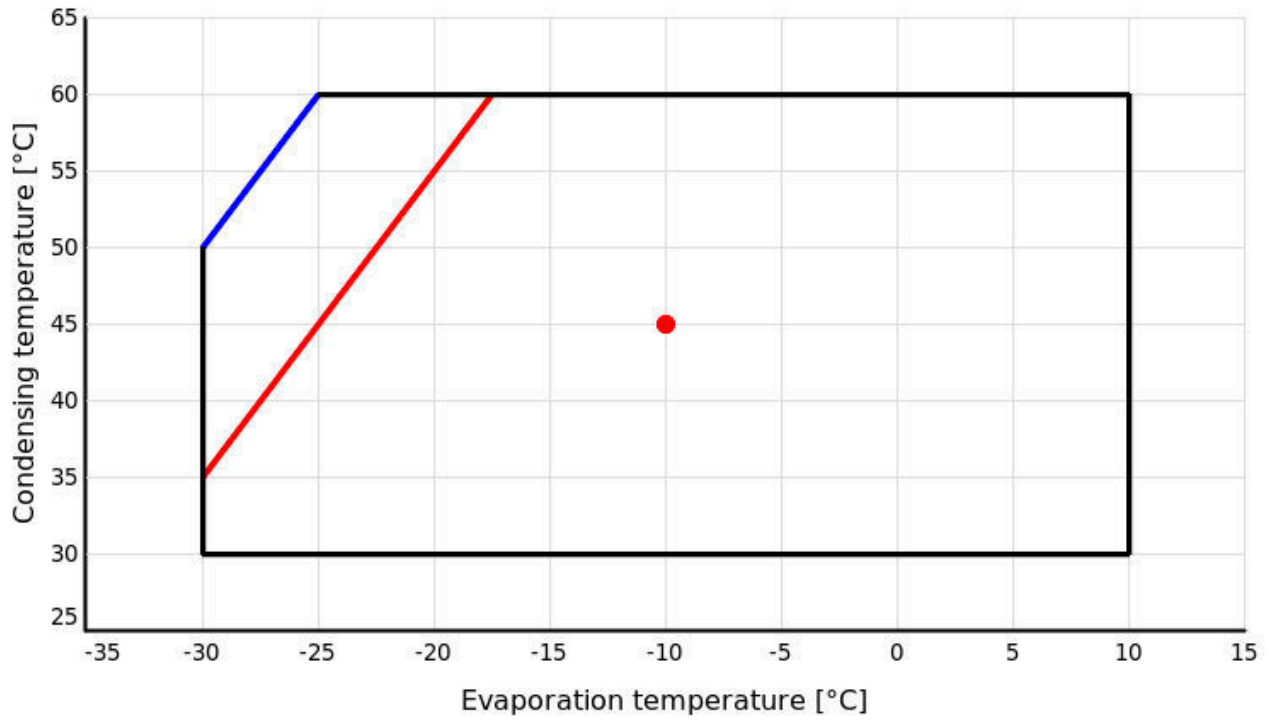
### Cooling capacity

		Evaporation temperature [°C]								
		-30	-25	-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	30	2.75	3.84	5.20	6.88	8.90	11.30	14.12	17.39	21.14
	35	2.37	3.37	4.61	6.14	7.99	10.19	12.78	15.80	19.28
	40	2.02	2.92	4.05	5.43	7.11	9.11	11.48	14.26	17.46
	45	1.70	2.50	3.51	4.75	<b>6.26</b>	8.07	10.22	12.74	15.68
	50	1.39	2.11	3.00	4.09	5.43	7.05	8.98	11.26	13.93
	55		1.73	2.50	3.46	4.63	6.06	7.77	9.81	12.21
	60		1.37	2.03	2.84	3.85	5.09	6.58	8.38	10.51



### Power consumption

		Evaporation temperature [°C]								
		-30	-25	-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	30	1.93	2.20	2.44	2.66	2.85	3.01	3.13	3.22	3.28
	35	1.95	2.24	2.51	2.75	2.97	3.16	3.32	3.45	3.54
	40	1.95	2.27	2.57	2.85	3.10	3.32	3.52	3.68	3.80
	45	1.94	2.29	2.62	2.93	<b>3.22</b>	3.48	3.71	3.91	4.07
	50	1.91	2.29	2.66	3.01	3.33	3.63	3.90	4.14	4.35
	55		2.28	2.69	3.07	3.44	3.78	4.09	4.37	4.62
	60		2.26	2.70	3.13	3.53	3.91	4.27	4.60	4.89

Application range



Legend

-  Suction gas superheating: 11 K
-  Suction gas superheating: 30 K

**Dimensions**

