



Producer: **Danfoss**

Line: **MTZ**

Model: **MTZ028-4**

Cooling capacity [kW]: **3.43**

Displacement [m<sup>3</sup>/h]: **8.4**

Refrigerant: **R134a, R404A, R407A, R407C, R407F, R448A, R449A, R452A, R454C, R455A, R513A**

Capacity control: **None**

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

## Data

### Technical data

Displacement	[m <sup>3</sup> /h]	8.4
Swept volume	[cm <sup>3</sup> ]	48.06
Cylinders quantity		1
Oil charge	[l]	0.95
Oil type		175PZ
Internal free volume (suction)	[dm <sup>3</sup> ]	7.5
Internal free volume (discharge)	[dm <sup>3</sup> ]	0.3
Net weight	[kg]	24.09
Gross weight	[kg]	25.94

### Electrical data

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	7.5
Locked rotor amperage	[A]	29.0
Revolutions per minute	[RPM]	2900
Motor resistance main	[Ω]	6.30

### 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]	1/2
Discharge valve diameter	[inch]	3/8
Suction connection thread diameter	[inch]	1
Discharge connection thread diameter	[inch]	1
Diameter	[mm]	224
Height	[mm]	333
Oil equalization		3/8" Flare SAE

## Other

Product codes	MTZ28-4VI, MTZ28-4VM
Approved refrigerants	R134a, R404A, R407A, R407C, R407F, R448A, R449A, R452A, R454C, R455A, 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

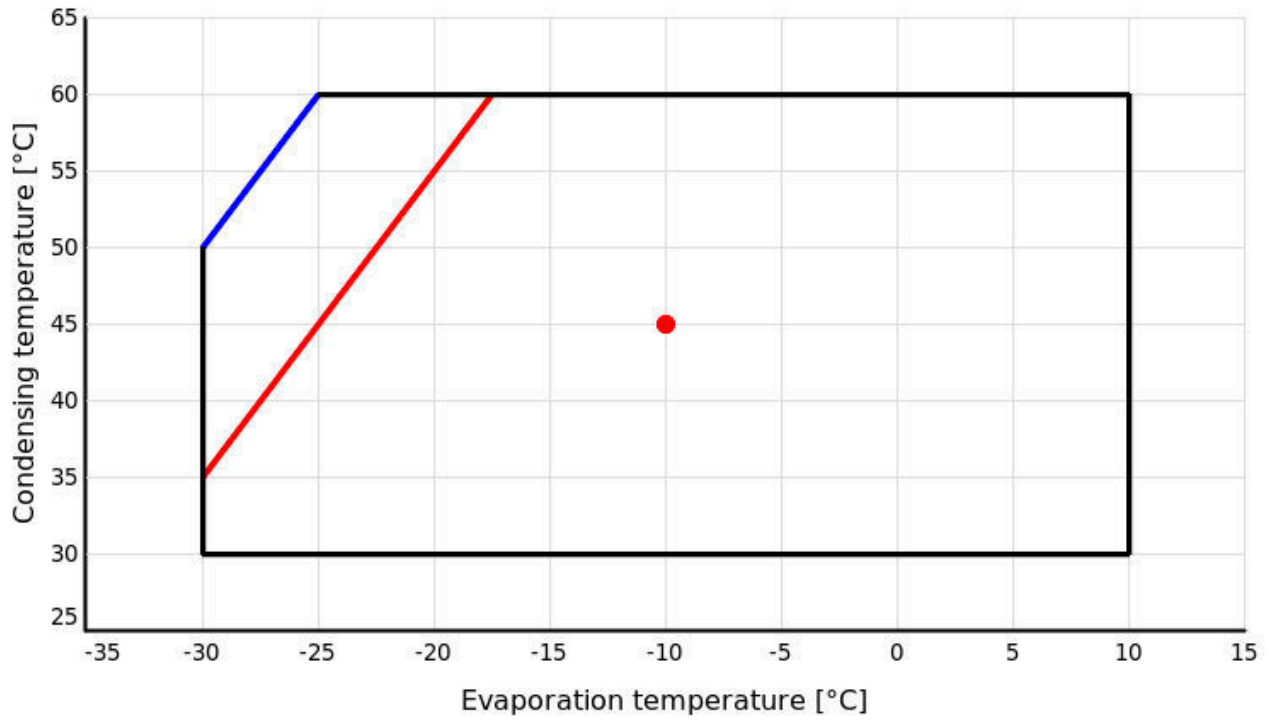
### Cooling capacity

		Evaporation temperature [°C]								
		-30	-25	-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	30	1.42	2.05	2.83	3.76	4.87	6.17	7.68	9.43	11.42
	35	1.18	1.77	2.49	3.35	4.38	5.59	7.00	8.62	10.49
	40	0.96	1.50	2.16	2.95	3.90	5.01	6.32	7.83	9.56
	45	0.76	1.25	1.85	2.57	<b>3.43</b>	4.45	5.64	7.04	8.64
	50	0.57	1.01	1.55	2.19	2.97	3.89	4.98	6.25	7.73
	55		0.79	1.26	1.83	2.52	3.35	4.33	5.48	6.82
	60		0.58	0.99	1.48	2.09	2.81	3.68	4.71	5.92

### Power consumption

		Evaporation temperature [°C]								
		-30	-25	-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	30	1.11	1.29	1.46	1.61	1.75	1.86	1.94	2.00	2.02
	35	1.09	1.30	1.49	1.66	1.82	1.95	2.06	2.14	2.20
	40	1.08	1.30	1.51	1.71	1.89	2.05	2.18	2.30	2.38
	45	1.05	1.30	1.53	1.75	<b>1.96</b>	2.14	2.31	2.45	2.56
	50	1.02	1.28	1.54	1.79	2.02	2.23	2.43	2.60	2.74
	55		1.26	1.55	1.82	2.08	2.32	2.55	2.75	2.93
	60		1.23	1.54	1.84	2.13	2.40	2.66	2.90	3.11

Application range



Legend

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

Dimensions

