



Producer: **Danfoss**

Line: **MTZ**

Model: **MTZ080-4**

Cooling capacity [kW]: **10.47**

Displacement [m<sup>3</sup>/h]: **23.6**

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]	23.6
Swept volume	[cm <sup>3</sup> ]	135.78
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]	40.27
Gross weight	[kg]	42.75

### Electrical data

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	18.5
Locked rotor amperage	[A]	80.0
Revolutions per minute	[RPM]	2900
Motor resistance main	[Ω]	1.94

### 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 1/8
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	MTZ80-4VI, MTZ80-4VM
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

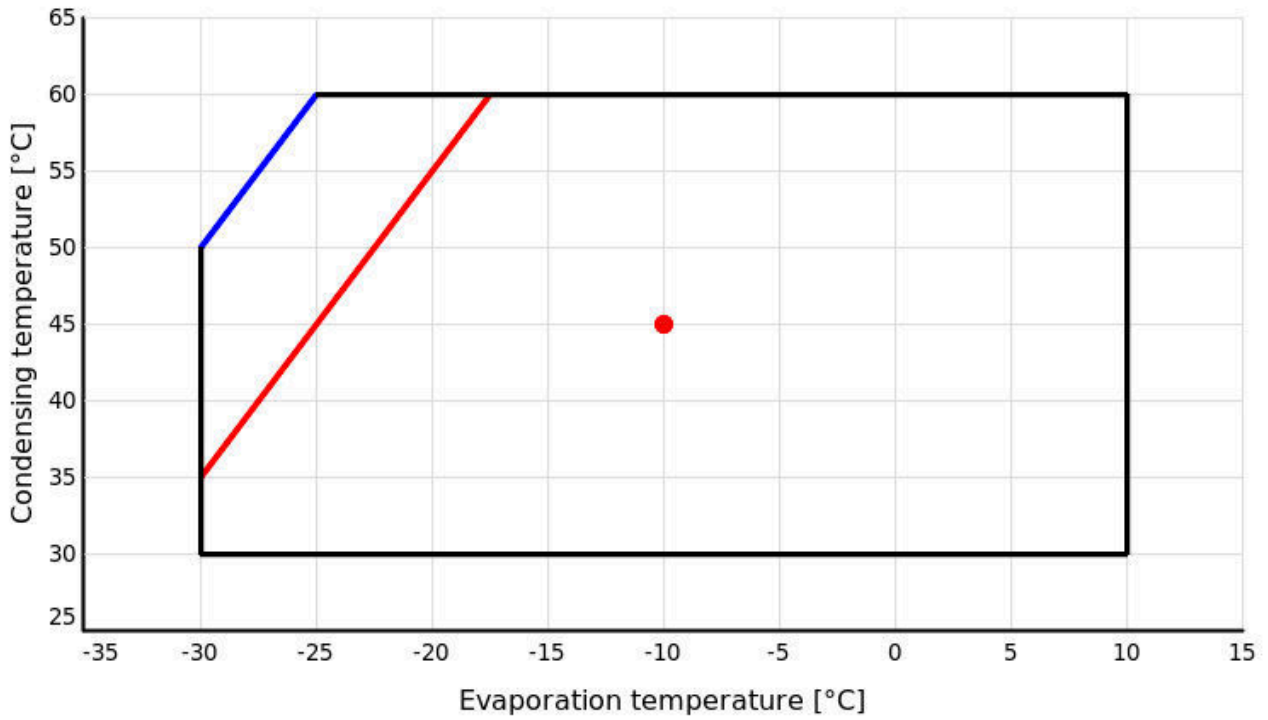
### Cooling capacity

		Evaporation temperature [°C]								
		-30	-25	-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	30	4.90	6.63	8.75	11.30	14.34	17.90	22.04	26.81	32.26
	35	4.29	5.91	7.86	10.22	13.02	16.32	20.16	24.60	29.68
	40	3.72	5.21	7.00	9.16	11.73	14.77	18.31	22.41	27.12
	45	3.18	4.53	6.17	8.13	<b>10.47</b>	13.23	16.47	20.24	24.58
	50	2.65	3.87	5.34	7.11	9.22	11.71	14.65	18.08	22.05
	55		3.23	4.53	6.10	7.97	10.20	12.84	15.93	19.53
	60		2.59	3.73	5.09	6.73	8.69	11.03	13.78	17.01

### Power consumption

		Evaporation temperature [°C]								
		-30	-25	-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	30	3.16	3.67	4.13	4.55	4.94	5.30	5.64	5.95	6.26
	35	3.18	3.75	4.26	4.73	5.17	5.57	5.94	6.29	6.62
	40	3.18	3.81	4.38	4.91	5.39	5.84	6.25	6.64	7.01
	45	3.15	3.85	4.48	5.07	<b>5.61</b>	6.11	6.57	7.01	7.41
	50	3.09	3.86	4.57	5.22	5.82	6.38	6.89	7.38	7.83
	55		3.85	4.63	5.35	6.02	6.64	7.21	7.75	8.25
	60		3.80	4.66	5.46	6.20	6.89	7.52	8.12	8.68

**Application range**



**Legend**

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

Dimensions

