

Reciprocating compressor MTZ036-4



Producer: **Danfoss**

Line: **MTZ**

Model: **MTZ036-4**

Cooling capacity [kW]: **4.67**

Displacement [m³/h]: **10.5**

Refrigerant: **R134a, R404A, R407A, R407C, R407F, R448A, R449A, R452A, R454A, R454C, R455A, R513A**

Capacity control: **None**

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

Data

Technical data

Displacement	[m ³ /h]	10.5
Swept volume	[cm ³]	60.47
Cylinders quantity		1
Oil type		POE 175PZ
Oil charge	[l]	0.95
Internal free volume (suction)	[dm ³]	7.5
Internal free volume (discharge)	[dm ³]	0.3
Net weight	[kg]	26.83
Gross weight	[kg]	28.08

Electrical data

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	9.0
Locked rotor amperage	[A]	38.0
Revolutions per minute	[RPM]	2900
Motor resistance main	[Ω]	5.92

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]	5/8
Discharge valve diameter	[inch]	1/2
Suction connection thread diameter	[inch]	1 1/4
Discharge connection thread diameter	[inch]	1
Diameter	[mm]	224
Height	[mm]	356
Oil equalization		3/8" Flare SAE

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Other

Product codes	MTZ36-4VI, MTZ36-4VM
Alternative name	MTZ36JG4BVE
Approved refrigerants	R134a, R404A, R407A, R407C, R407F, R448A, R449A, R452A, R454A, R454C, R455A, R513A
Capacity control	None
Protection rating ¹	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

¹ With cable gland.

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Performance

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

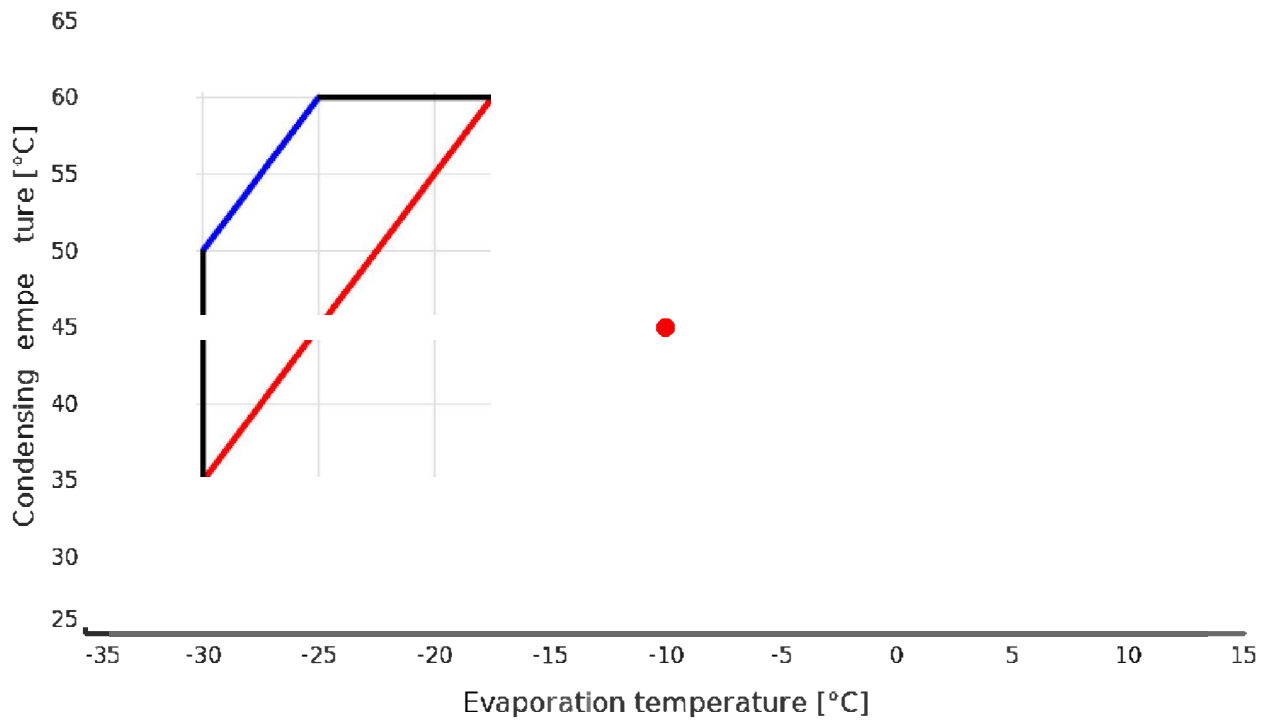
Cooling capacity [kW]

		Evaporation temperature [°C]								
		-30	-25	-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	30	2.06	2.86	3.83	5.00	6.38	8.01	9.90	12.08	14.56
	35	1.81	2.55	3.45	4.53	5.82	7.32	9.08	11.09	13.40
	40	1.55	2.24	3.07	4.07	5.25	6.63	8.24	10.10	12.23
	45	1.30	1.93	2.69	3.60	4.67	5.93	7.40	9.10	11.05
	50	1.05	1.62	2.31	3.13	4.09	5.23	6.55	8.09	9.87
	55		1.31	1.93	2.65	3.50	4.51	5.70	7.08	8.67
	60		1.00	1.54	2.17	2.91	3.80	4.84	6.05	7.47




Power consumption [kW]

		Evaporation temperature [°C]								
		-30	-25	-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	30	1.47	1.69	1.88	2.06	2.22	2.35	2.45	2.51	2.54
	35	1.50	1.73	1.95	2.16	2.34	2.51	2.64	2.74	2.81
	40	1.50	1.76	2.01	2.25	2.47	2.66	2.83	2.97	3.08
	45	1.50	1.78	2.06	2.33	2.58	2.81	3.01	3.19	3.34
	50	1.48	1.79	2.10	2.39	2.68	2.94	3.19	3.41	3.60
	55		1.78	2.12	2.45	2.76	3.07	3.35	3.61	3.85
	60		1.75	2.12	2.48	2.84	3.18	3.51	3.81	4.09

Application range



Legend

-  Suction gas superheating: 11 K
-  Suction gas superheating: 30 K
-  Current operating conditions

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Dimensions

