



Producer: **Danfoss**  
 Line: **NTZ**  
 Model: **NTZ108-4B**  
 Cooling capacity [kW]: **7.96**  
 Displacement [m<sup>3</sup>/h]: **18.7**  
 Refrigerant: **R404A, R452A**  
 Capacity control: **None**  
 Power supply: **400V/3Ph/50Hz**

## Data

### Technical data

Displacement	[m <sup>3</sup> /h]	18.7
Swept volume	[cm <sup>3</sup> ]	108.00
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]	35.00
Gross weight	[kg]	37.50

### Electrical data

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	12.1
Locked rotor amperage	[A]	45.0
Revolutions per minute	[RPM]	2900
Motor resistance main	[Ω]	4.00

### Limits

Maximum suction pressure	[bar]	22.6
Maximum discharge pressure	[bar]	28.5
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	120F0004, 120F0011, 120F0238, 120F0239
Approved refrigerants	R404A, R452A
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: 0K

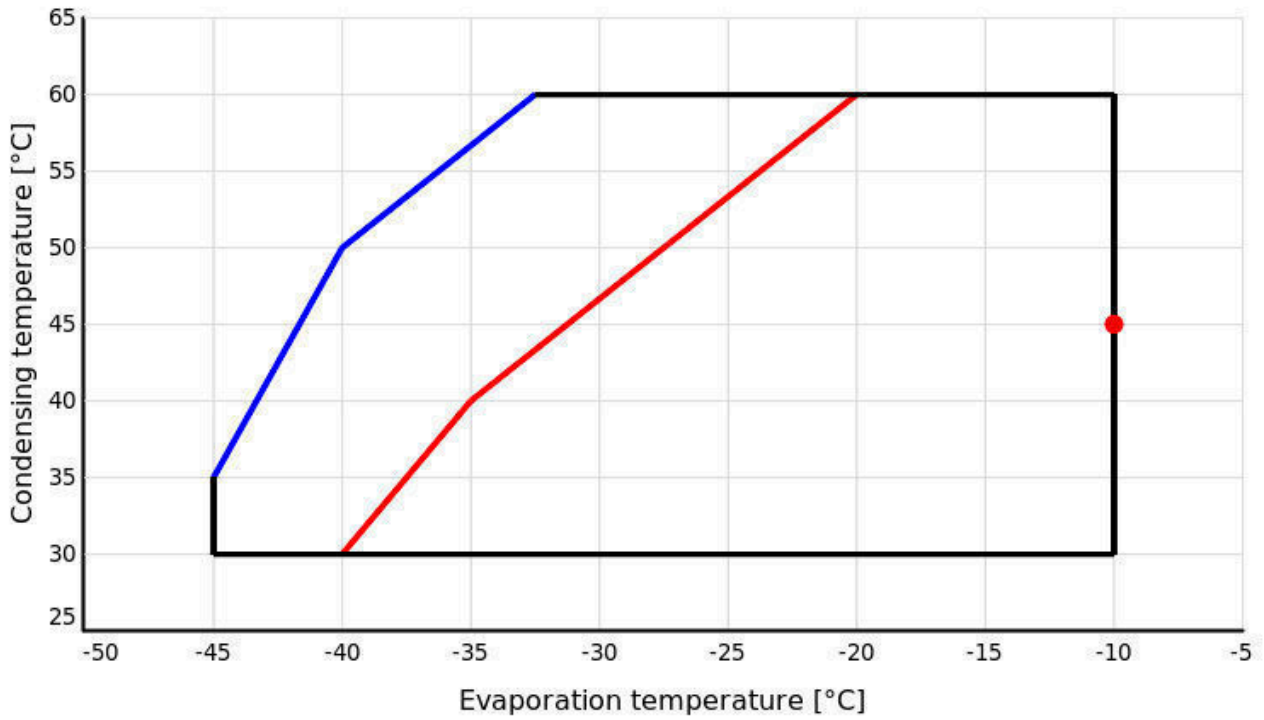
### Cooling capacity

		Evaporation temperature [°C]							
		-45	-40	-35	-30	-25	-20	-15	-10
Condensation temperature [°C]	30	1.32	2.00	2.86	3.94	5.26	6.85	8.74	10.95
	35	1.07	1.70	2.49	3.49	4.70	6.17	7.91	9.96
	40		1.40	2.13	3.04	4.14	5.48	7.08	8.97
	45		1.12	1.77	2.59	3.58	4.79	6.24	<b>7.96</b>
	50		0.84	1.42	2.14	3.03	4.10	5.40	6.95
	55			1.08	1.71	2.48	3.42	4.56	5.94
	60				1.29	1.94	2.74	3.73	4.93

### Power consumption

		Evaporation temperature [°C]							
		-45	-40	-35	-30	-25	-20	-15	-10
Condensation temperature [°C]	30	1.38	1.74	2.09	2.43	2.75	3.07	3.36	3.65
	35	1.32	1.71	2.10	2.47	2.84	3.20	3.55	3.88
	40		1.66	2.08	2.50	2.91	3.31	3.71	4.10
	45		1.57	2.03	2.49	2.95	3.40	3.85	<b>4.29</b>
	50		1.46	1.96	2.46	2.96	3.46	3.96	4.46
	55			1.85	2.39	2.94	3.49	4.05	4.60
	60				2.30	2.89	3.49	4.10	4.71

**Application range**



**Legend**

- Suction gas superheating: 10 K
- Suction gas temperature: 20 K

## Dimensions

