



Producer: **Danfoss**

Line: **SZ**

Model: **SZ100-4**

Cooling capacity [kW]: **12.18**

Displacement [m³/h]: **22.1**

Refrigerant: **R134a, R404A, R407C**

Capacity control: **None**

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

Data

Technical data

Displacement	[m ³ /h]	22.1
Swept volume	[cm ³]	127.20
Oil charge	[l]	3.25
Oil type		POE 160SZ
Internal free volume (suction)	[dm ³]	13.0
Internal free volume (discharge)	[dm ³]	1.1
Net weight	[kg]	65.00
Gross weight	[kg]	70.84

Electrical data

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	19.0
Maximum operating current	[A]	18.0
Locked rotor amperage	[A]	98.0
Revolutions per minute	[RPM]	2900
Motor resistance main	[Ω]	1.48

Limits

Maximum suction pressure	[bar]	25.0
Maximum discharge pressure	[bar]	34.3
Maximum suction temperature	[°C]	54.0
Minimum suction temperature	[°C]	-35.0
Maximum discharge temperature	[°C]	150.0
Minimal discharge temperature	[°C]	-35.0

Dimensions

Suction tube diameter ¹	[inch]	1 1/8
Discharge tube diameter ¹	[inch]	3/4
Diameter	[mm]	254
Height	[mm]	508
Oil equalization		3/8" Flare SAE

¹ For version with brazed connection type.

² For version with Rotolock connection type.

Other

Product codes	SZ100-4VI, SZ100-4VM
Approved refrigerants	R134a, R404A, R407C
Capacity control	None
Protection rating ³	IP54
Glass mounting	Threaded

Shipped equipment

Motor protection	Internal overload protector
Shipped mounting	Mounting kit with grommets, bolts, nuts, sleeves and washers

³ With cable gland.

Performance

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

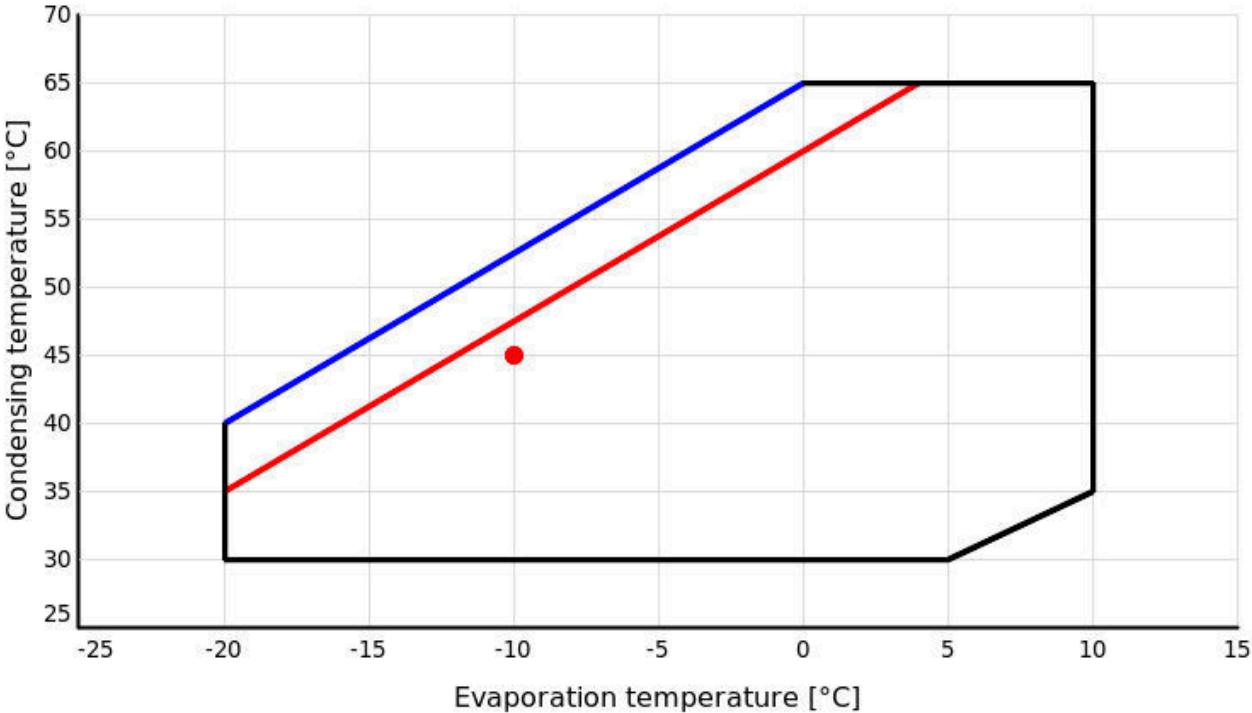
Cooling capacity

		Evaporation temperature [°C]						
		-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	30	10.04	12.60	15.62	19.15	23.25	27.97	
	35	9.20	11.66	14.54	17.91	21.82	26.32	31.46
	40	8.35	10.67	13.40	16.58	20.27	24.52	29.38
	45		9.64	12.18	15.15	18.60	22.58	27.15
	50			10.89	13.62	16.81	20.49	24.74
	55				12.00	14.89	18.26	22.15
	60					12.85	15.87	19.39
	65					10.67	13.33	16.46

Power consumption

		Evaporation temperature [°C]						
		-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	30	4.64	4.64	4.62	4.59	4.57	4.56	
	35	5.21	5.20	5.17	5.14	5.11	5.08	5.06
	40	5.84	5.82	5.79	5.75	5.70	5.66	5.63
	45		6.53	6.49	6.44	6.38	6.32	6.26
	50			7.28	7.22	7.14	7.06	6.99
	55				8.10	8.01	7.91	7.81
	60					8.98	8.86	8.74
	65					10.07	9.94	9.80

Application range



Legend

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

Dimensions

