



Producer: **Danfoss**

Line: **SZ**

Model: **SZ110-4**

Cooling capacity [kW]: **13.94**

Displacement [m³/h]: **25.1**

Refrigerant: **R134a, R404A, R407C**

Capacity control: **None**

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

Data

Technical data

Displacement	[m ³ /h]	25.1
Swept volume	[cm ³]	144.20
Oil charge	[l]	3.25
Oil type		POE 160SZ
Internal free volume (suction)	[dm ³]	13.6
Internal free volume (discharge)	[dm ³]	1.1
Net weight	[kg]	73.00
Gross weight	[kg]	86.81

Electrical data

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	22.0
Maximum operating current	[A]	20.0
Locked rotor amperage	[A]	130.0
Revolutions per minute	[RPM]	2900
Motor resistance main	[Ω]	1.05

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 3/8
Discharge tube diameter ¹	[inch]	7/8
Diameter	[mm]	254
Height	[mm]	558
Oil equalization		3/8" Flare SAE

¹ For version with brazed connection type.

² For version with Rotolock connection type.

Other

Product codes	SZ110-4VI, SZ110-4VM
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

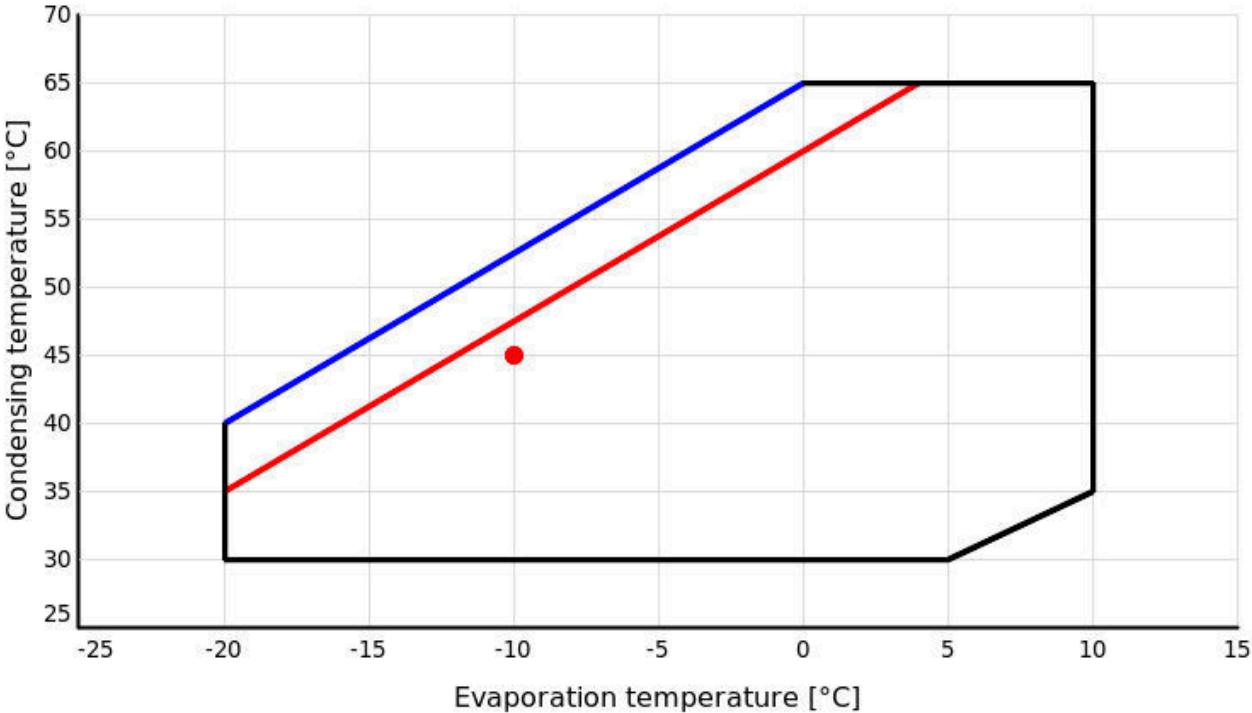
Cooling capacity

		Evaporation temperature [°C]						
		-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	30	11.35	14.25	17.68	21.72	26.42	31.85	
	35	10.49	13.25	16.53	20.38	24.85	30.02	35.93
	40	9.57	12.19	15.28	18.91	23.14	28.03	33.62
	45		11.05	13.94	17.33	21.29	25.86	31.12
	50			12.50	15.63	19.29	23.53	28.43
	55				13.80	17.14	21.03	25.54
	60					14.84	18.36	22.46
	65					12.40	15.51	19.18

Power consumption

		Evaporation temperature [°C]						
		-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	30	5.52	5.49	5.46	5.43	5.39	5.37	
	35	6.13	6.11	6.08	6.04	6.00	5.97	5.95
	40	6.80	6.78	6.76	6.72	6.68	6.64	6.61
	45		7.53	7.51	7.47	7.43	7.39	7.35
	50			8.34	8.31	8.27	8.22	8.18
	55				9.24	9.20	9.16	9.11
	60					10.24	10.19	10.15
	65					11.40	11.35	11.30

Application range



Legend

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

Dimensions

