



Producer: **Danfoss**
 Line: **SZ**
 Model: **SZ120-4**
 Cooling capacity [kW]: **15.62**
 Displacement [m³/h]: **29.0**
 Refrigerant: **R134a, R404A, R407C**
 Capacity control: **None**
 Power supply: **400V/3Ph/50Hz**

Data

Technical data

Displacement	[m ³ /h]	29.0
Swept volume	[cm ³]	166.60
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]	79.34

Electrical data

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	29.0
Maximum operating current	[A]	24.0
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	SZ120-4VI, SZ120-4VM
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

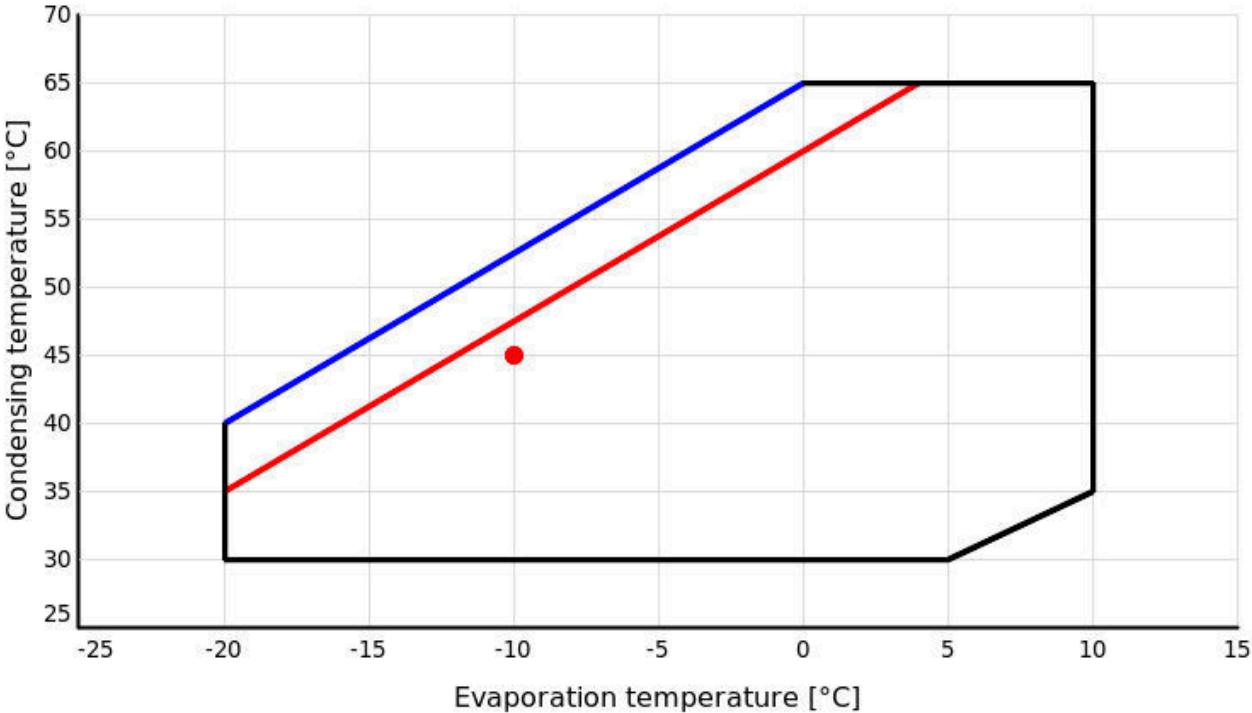
Cooling capacity

		Evaporation temperature [°C]						
		-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	30	12.97	16.28	20.21	24.84	30.23	36.46	
	35	11.90	15.06	18.79	23.18	28.30	34.22	41.01
	40	10.78	13.75	17.26	21.38	26.19	31.75	38.15
	45		12.37	15.62	19.44	23.90	29.08	35.05
	50			13.89	17.37	21.45	26.21	31.72
	55				15.17	18.84	23.15	28.16
	60					16.09	19.91	24.39
	65					13.20	16.49	20.41

Power consumption

		Evaporation temperature [°C]						
		-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	30	6.23	6.22	6.17	6.10	6.01	5.92	
	35	6.94	6.94	6.90	6.83	6.75	6.65	6.55
	40	7.72	7.74	7.71	7.64	7.56	7.46	7.35
	45		8.62	8.60	8.54	8.46	8.36	8.24
	50			9.59	9.54	9.46	9.36	9.24
	55				10.66	10.58	10.47	10.35
	60					11.82	11.71	11.58
	65					13.21	13.09	12.96

Application range



Legend

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

Dimensions

