

Producer: **Danfoss** Line: **SZ** Cooling capacity [kW]: **20.64** Displacement [m³/h]: **37.7** Refrigerant: **R134a, R404A, R407C** Capacity control: **None** Power supply: **400V/3Ph/50Hz**

Data

Technical data

Displacement	[m³/h]	37.7
Swept volume	[cm³]	216.60
Oil charge	[1]	4.00
Oil type		POE 160SZ
Internal free volume (suction)	[dm³]	16.5
Internal free volume (discharge)	[dm³]	1.7
Net weight	[kg]	92.16
Gross weight	[kg]	107.50

Electrical data

Power supply		400V/3Ph/50Hz
Maximum operating current	[A]	29.0
Locked rotor amperage	[A]	150.0
Revolutions per minute	[RPM]	2900
Motor resistance main	[Ω]	0.94

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 5/8	
Discharge tube diameter 1	[inch]	1 1/8	
Suction valve diameter ²	[inch]	2 1/4	
Discharge valve diameter ²	[inch]	1 3/4	
Suction connection thread diameter ²	[inch]	2 1/4	
Discharge connection thread diameter ²	[inch]	1 3/4	
Diameter	[mm]	266	
Height	[mm]	631	
Oil equalization		3/8" Flare SAE	
Oil drain		1/4" Flare	

¹ For version with brazed connection type.

² For version with Rotolock connection type.

Other	
Product codes	SZ160-4CBI, SZ160-4CBM, SZ160-4RAI, SZ160-4RAM
Approved refrigerants	R134a, R404A, R407C
Capacity control	None
Protection rating ³	IP54
Glass mounting	Threaded

Shipped	equipment
---------	-----------

Motor protection	Internal thermostat, ext. overload protector needed
Shipped fittings	Suction and discharge solder sleeves, rotolock nuts and gaskets
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: 0K

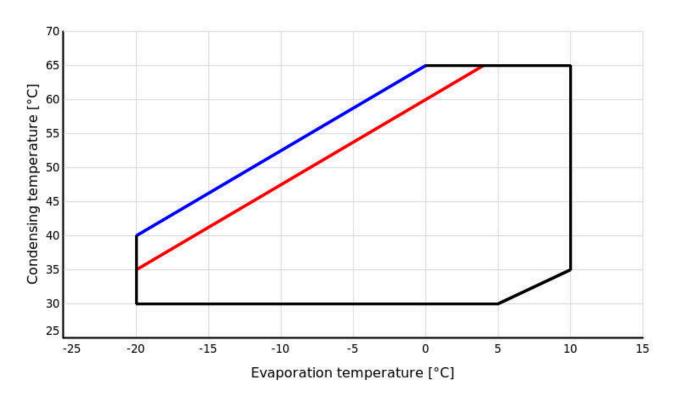
Cooling capacity

	Evaporation temperature [°C]							
_ Ω		-20	-15	-10	-5	0	5	10
-	30	17.37	21.63	26.73	32.75	39.79	47.94	
ratu	35	15.93	19.99	24.83	30.56	37.26	45.03	53.97
Condensation temperature	40	14.44	18.25	22.80	28.19	34.50	41.84	50.30
n tei	45		16.43	20.64	25.64	31.52	38.38	46.31
atio	50			18.36	22.92	28.32	34.65	42.01
lens	55				20.05	24.92	30.68	37.41
Conc	60					21.32	26.46	32.52
U	65					17.54	22.00	27.35

Power consumption

	Evaporation temperature [°C]							
ົວ _		-20	-15	-10	-5	0	5	10
_	30	7.98	8.02	8.03	8.02	7.97	7.91	
Condensation temperature	35	8.86	8.90	8.92	8.92	8.89	8.83	8.75
mpe	40	9.82	9.88	9.90	9.90	9.88	9.83	9.76
n te	45		10.96	10.99	10.99	10.97	10.93	10.86
atio	50			12.20	12.20	12.18	12.14	12.07
dens	55				13.55	13.53	13.48	13.41
Conc	60					15.03	14.98	14.90
0	65					16.71	16.64	16.56

Application range



Legend



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

Dimensions

