

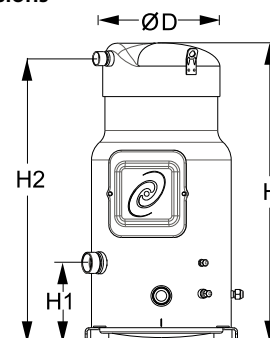
Datasheets

Danfoss scroll compressors **SM / SY / SZ / SH / WSH**



General Characteristics

Model number (on compressor nameplate)	SZ175S4RC	SZ175S4CC
Code number for Singlepack*	SZ175-4RI	SZ175-4CAI
Code number for Industrial pack**	SZ175-4RM	SZ175-4CAM
Drawing number	8551119b	8551056c
Suction and discharge connections	Rotolock	Brazed
Suction connection	2-1/4 " Rotolock	1-5/8 " ODF
Discharge connection	1-3/4 " Rotolock	1-1/8 " ODF
Suction connection with supplied sleeve	1-3/8 " ODF	
Discharge connection with supplied sleeve	7/8 " ODF	
Oil sight glass	Threaded	Threaded
Oil equalisation connection	3/8" flare SAE	3/8" flare SAE
Oil drain connection	1/4" flare	1/4" flare
LP gauge port	Schrader	Schrader
IPR valve	None	None
Swept volume	233 cm ³ /rev	
Displacement @ Nominal speed	40.5 m ³ /h @ 2900 rpm - 48.9 m ³ /h @ 3500 rpm	
Net weight	100 kg	
Oil charge	6,2 litre, POE - 160SZ	
Maximum system test pressure Low Side / High side	25 bar(g) / 32 bar(g)	
Maximum differential test pressure	24 bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	13,5 kg	
Approved refrigerants	R407C, R134a, R404A, R507A	

Dimensions


D=317 mm

H=678 mm

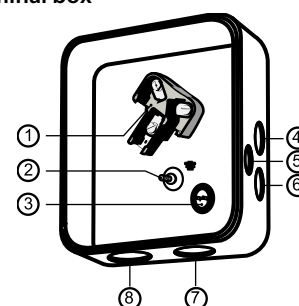
H1=180 mm

H2=643 mm

H3= mm

Electrical Characteristics

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-440 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25°C	0.77 Ω
Maximum Must Trip current (MMT)	35 A
Locked Rotor Amps (LRA)	175 A
Motor protection	Internal thermostat, ext. overload protector needed

Terminal box


IP54 (with cable gland)

- 1: Power connection, 3 x 4.8 mm (3/16")
- 2: Earth M5
- 3: Thermostat connector
- 4: Knock-out Ø 22 mm (7/8") for 1/2" conduit
- 5: Knock-out Ø 16.5 mm (0.65")
- 6: Knock-out Ø 20.5 mm (0.81")
- 7: Double knock-out Ø 32.1 mm (1.26") & Ø 25.4 mm (1")
- 8: Double knock-out Ø 44 mm (1-3/4") for 1-1/4" conduit & Ø 34 mm (1-3/8") for 1" conduit

Recommended Installation torques

Suction Rotolock nut or valve	130 Nm
Discharge Rotolock nut or valve	110 Nm
Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Terminal box cover screws	2,3 Nm
Mounting bolts	21 Nm

Parts shipped with compressor

Mounting kit with grommets, bolts, nuts, sleeves and washers
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA6873), -

*Singlepack: Compressor in cardboard box

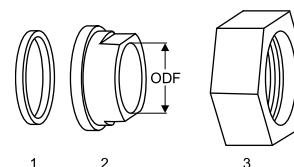
**Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

Rotolock accessories, suction side
Code no.

Solder sleeve, P08 (2-1/4" Rotolock, 1-3/8" ODF)	8153005
Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006
Rotolock valve, V08 (2-1/4" Rotolock, 1-3/8" ODF)	8168025
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026
Gasket, 2-1/4"	8156133

Rotolock accessories, discharge side
Code no.

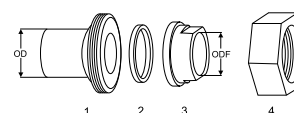
Solder sleeve, P07 (1-3/4" Rotolock, 7/8" ODF)	8153013
Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C07 (1-3/4" Rotolock, 7/8" ODF)	8168008
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V07 (1-3/4" Rotolock, 7/8" ODF)	8168032
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Gaskets, sleeves and nuts


- 1: Gasket
2: Solder sleeve
3: Rotolock nut

Rotolock accessories, sets
Code no.

Solder sleeve adapter set, (2-1/4" Rotolock, 1-5/8" ODF), (1-3/4" Rotolock, 1"1/8 ODF)	7765028
Valve set, V08 (2-1/4"~1-3/8"), V07 (1-3/4"~7/8")	7703010
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

Solder sleeve adapter set


- 1: Rotolock adapter (Suc & Dis)
2: Gasket (Suc & Dis)
3: Solder sleeve (Suc & Dis)
4: Rotolock nut (Suc & Dis)

Oil / lubricants
Code no.

POE lubricant, 160SZ, 1 litre can	7754023
POE lubricant, 160SZ, 2.5 litre can	120Z0571

Crankcase heaters
Code no.

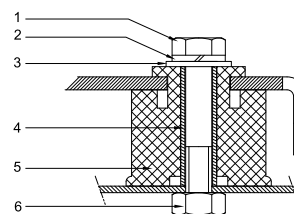
Surface sump heater + bottom insulation, 56 W, 24 V, CE mark, UL	120Z0360
Surface sump heater + bottom insulation, 56 W, 230 V, CE mark, UL	120Z0376
Surface sump heater + bottom insulation, 56 W, 400 V, CE mark, UL	120Z0377
Surface sump heater + bottom insulation, 56 W, 460 V, CE mark, UL	120Z0378
Belt type crankcase heater, 75 W, 230 V, CE mark, UL	7773108
Belt type crankcase heater, 75 W, 400 V, CE mark, UL	7773118
Belt type crankcase heater, 75 W, 460 V, CE mark, UL	120Z0464

Miscellaneous accessories
Code no.

Electronic soft start kit, MCI 25 C	7705007
Acoustic hood for scroll compressor S175-S185	7755007
Acoustic bottom insulation for scroll compressor	120Z0353
Discharge thermostat kit	7750009

Spare parts
Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	8156138
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers, 2 rotolock nuts, 2 solder sleeves, 2 gaskets	8156147
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (white teflon)	8156129
Terminal box 186 x 198 mm, incl cover	8156139
T block connector 60 x 75 mm	8173021

Mounting kit


- 1: Bolt (4x)
2: Lock washer (4x)
3: Flat washer (4x)
4: Sleeve (4x)
5: Grommet (4x)
6: Nut (4x)

Performance data at 50 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	15

Cooling capacity in W

30	15 352	19 551	24 558	30 458	37 334	45 272	54 354	64 666	-
35	14 349	18 420	23 258	28 946	35 568	43 207	51 948	61 873	-
40	13 314	17 230	21 871	27 319	33 657	40 969	49 338	58 849	-
45	-	15 979	20 395	25 574	31 600	38 556	46 525	55 591	-
50	-	-	18 827	23 709	29 394	35 965	43 505	52 096	-
55	-	-	-	21 723	27 039	33 195	40 276	48 362	-
60	-	-	-	-	24 530	30 243	36 834	44 384	-
65	-	-	-	-	21 865	27 103	33 172	40 153	-

Power input in W

30	7 140	7 215	7 283	7 337	7 375	7 394	7 387	7 353	-
35	7 959	8 037	8 106	8 163	8 205	8 227	8 225	8 196	-
40	8 890	8 969	9 041	9 102	9 147	9 173	9 176	9 153	-
45	-	10 027	10 102	10 166	10 215	10 246	10 255	10 237	-
50	-	-	11 302	11 370	11 424	11 460	11 474	11 463	-
55	-	-	-	12 728	12 787	12 828	12 849	12 844	-
60	-	-	-	-	14 317	14 365	14 392	14 394	-
65	-	-	-	-	16 030	16 084	16 117	16 127	-

Current consumption in A

30	15.59	15.71	15.81	15.89	15.94	15.96	15.94	15.87	-
35	16.48	16.60	16.71	16.79	16.85	16.88	16.87	16.82	-
40	17.55	17.68	17.79	17.88	17.95	17.98	17.98	17.94	-
45	-	18.95	19.07	19.17	19.24	19.29	19.30	19.27	-
50	-	-	20.58	20.68	20.77	20.83	20.85	20.83	-
55	-	-	-	22.46	22.56	22.63	22.66	22.66	-
60	-	-	-	-	24.63	24.71	24.76	24.77	-
65	-	-	-	-	27.02	27.11	27.17	27.20	-

Mass flow in kg/h

30	320	400	493	601	724	865	1 023	1 202	-
35	314	395	490	598	722	864	1 023	1 202	-
40	307	389	484	594	719	860	1 020	1 199	-
45	-	382	478	587	712	854	1 014	1 193	-
50	-	-	469	579	704	845	1 004	1 183	-
55	-	-	-	568	692	833	991	1 169	-
60	-	-	-	-	677	817	974	1 151	-
65	-	-	-	-	659	797	953	1 128	-

Coefficient of performance (C.O.P.)

30	2.15	2.71	3.37	4.15	5.06	6.12	7.36	8.79	-
35	1.80	2.29	2.87	3.55	4.33	5.25	6.32	7.55	-
40	1.50	1.92	2.42	3.00	3.68	4.47	5.38	6.43	-
45	-	1.59	2.02	2.52	3.09	3.76	4.54	5.43	-
50	-	-	1.67	2.09	2.57	3.14	3.79	4.54	-
55	-	-	-	1.71	2.11	2.59	3.13	3.77	-
60	-	-	-	-	1.71	2.11	2.56	3.08	-
65	-	-	-	-	1.36	1.69	2.06	2.49	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	35 965	W
Power input	11 460	W
Current consumption	20.83	A
Mass flow	845	kg/h
C.O.P.	3.14	

Pressure switch settings

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	81	dB(A)
With acoustic hood	73	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

All performance data +/- 5%

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Datasheet, performance data

Danfoss scroll compressor. SZ175-4

Performance data at 50 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	15

Cooling capacity in W

30	16 466	20 944	26 279	32 558	39 868	48 296	57 930	68 857	-
35	15 464	19 827	25 003	31 082	38 148	46 291	55 598	66 154	-
40	14 429	18 648	23 637	29 486	36 281	44 110	53 060	63 218	-
45	-	17 404	22 178	27 769	34 264	41 750	50 314	60 045	-
50	-	-	20 623	25 928	32 093	39 208	47 358	56 633	-
55	-	-	-	23 960	29 767	36 482	44 190	52 979	-
60	-	-	-	-	27 284	33 569	40 806	49 081	-
65	-	-	-	-	24 640	30 468	37 205	44 938	-

Power input in W

30	7 140	7 215	7 283	7 337	7 375	7 394	7 387	7 353	-
35	7 959	8 037	8 106	8 163	8 205	8 227	8 225	8 196	-
40	8 890	8 969	9 041	9 102	9 147	9 173	9 176	9 153	-
45	-	10 027	10 102	10 166	10 215	10 246	10 255	10 237	-
50	-	-	11 302	11 370	11 424	11 460	11 474	11 463	-
55	-	-	-	12 728	12 787	12 828	12 849	12 844	-
60	-	-	-	-	14 317	14 365	14 392	14 394	-
65	-	-	-	-	16 030	16 084	16 117	16 127	-

Current consumption in A

30	15.59	15.71	15.81	15.89	15.94	15.96	15.94	15.87	-
35	16.48	16.60	16.71	16.79	16.85	16.88	16.87	16.82	-
40	17.55	17.68	17.79	17.88	17.95	17.98	17.98	17.94	-
45	-	18.95	19.07	19.17	19.24	19.29	19.30	19.27	-
50	-	-	20.58	20.68	20.77	20.83	20.85	20.83	-
55	-	-	-	22.46	22.56	22.63	22.66	22.66	-
60	-	-	-	-	24.63	24.71	24.76	24.77	-
65	-	-	-	-	27.02	27.11	27.17	27.20	-

Mass flow in kg/h

30	318	398	491	598	720	860	1 017	1 195	-
35	312	393	487	595	718	859	1 017	1 195	-
40	305	387	482	591	715	855	1 014	1 192	-
45	-	380	475	584	708	849	1 008	1 186	-
50	-	-	467	576	700	840	998	1 176	-
55	-	-	-	565	688	828	986	1 162	-
60	-	-	-	-	673	812	969	1 144	-
65	-	-	-	-	655	793	948	1 121	-

Coefficient of performance (C.O.P.)

30	2.31	2.90	3.61	4.44	5.41	6.53	7.84	9.36	-
35	1.94	2.47	3.08	3.81	4.65	5.63	6.76	8.07	-
40	1.62	2.08	2.61	3.24	3.97	4.81	5.78	6.91	-
45	-	1.74	2.20	2.73	3.35	4.07	4.91	5.87	-
50	-	-	1.82	2.28	2.81	3.42	4.13	4.94	-
55	-	-	-	1.88	2.33	2.84	3.44	4.12	-
60	-	-	-	-	1.91	2.34	2.84	3.41	-
65	-	-	-	-	1.54	1.89	2.31	2.79	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	40 106	W
Power input	12 667	W
Current consumption	22.41	A
Mass flow	897	kg/h
C.O.P.	3.17	

Pressure switch settings

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	81	dB(A)
With acoustic hood	73	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

All performance data +/- 5%

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Performance data at 50 Hz, EN 12900 rating conditions
R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

Cooling capacity in W

35	12 171	15 608	19 649	24 353	29 784	36 002	43 069	-	-
40	11 378	14 696	18 592	23 125	28 358	34 351	41 165	-	-
45	10 565	13 749	17 483	21 829	26 847	32 599	39 145	-	-
50	9 735	12 769	16 326	20 468	25 255	30 749	37 010	-	-
55	-	11 760	15 124	19 046	23 586	28 804	34 763	-	-
60	-	-	13 880	17 565	21 841	26 768	32 407	-	-
65	-	-	-	16 030	20 024	24 642	29 944	-	-
70	-	-	-	14 441	18 137	22 428	27 373	-	-

Power input in W

35	5 701	5 770	5 826	5 865	5 884	5 877	5 842	-	-
40	6 277	6 349	6 409	6 454	6 478	6 478	6 450	-	-
45	6 928	7 004	7 069	7 119	7 150	7 157	7 137	-	-
50	7 661	7 741	7 811	7 867	7 904	7 920	7 908	-	-
55	-	8 565	8 641	8 704	8 749	8 772	8 769	-	-
60	-	-	9 566	9 635	9 688	9 720	9 727	-	-
65	-	-	-	10 668	10 729	10 770	10 787	-	-
70	-	-	-	11 808	11 878	11 929	11 956	-	-

Current consumption in A

35	14.11	14.20	14.26	14.30	14.31	14.27	14.20	-	-
40	14.67	14.75	14.82	14.87	14.89	14.87	14.81	-	-
45	15.33	15.43	15.50	15.56	15.59	15.58	15.54	-	-
50	16.12	16.22	16.31	16.38	16.42	16.43	16.39	-	-
55	-	17.16	17.26	17.34	17.39	17.41	17.40	-	-
60	-	-	18.36	18.46	18.52	18.56	18.56	-	-
65	-	-	-	19.74	19.82	19.87	19.89	-	-
70	-	-	-	21.20	21.30	21.37	21.40	-	-

Mass flow in kg/h

35	295	370	456	554	664	788	927	-	-
40	290	366	453	551	662	787	926	-	-
45	284	361	449	548	659	784	924	-	-
50	278	355	443	543	655	780	920	-	-
55	-	349	437	537	649	774	914	-	-
60	-	-	430	530	642	767	906	-	-
65	-	-	-	521	633	757	896	-	-
70	-	-	-	511	622	746	884	-	-

Coefficient of performance (C.O.P.)

35	2.13	2.71	3.37	4.15	5.06	6.13	7.37	-	-
40	1.81	2.31	2.90	3.58	4.38	5.30	6.38	-	-
45	1.52	1.96	2.47	3.07	3.76	4.55	5.48	-	-
50	1.27	1.65	2.09	2.60	3.20	3.88	4.68	-	-
55	-	1.37	1.75	2.19	2.70	3.28	3.96	-	-
60	-	-	1.45	1.82	2.25	2.75	3.33	-	-
65	-	-	-	1.50	1.87	2.29	2.78	-	-
70	-	-	-	1.22	1.53	1.88	2.29	-	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	25 255	W
Power input	7 904	W
Current consumption	16.42	A
Mass flow	655	kg/h
C.O.P.	3.20	

Pressure switch settings

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

All performance data +/- 5%

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Performance data at 50 Hz, ARI rating conditions
R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

Cooling capacity in W

35	13 182	16 876	21 211	26 249	32 054	38 691	46 222	-	-
40	12 390	15 974	20 172	25 047	30 664	37 085	44 375	-	-
45	11 576	15 033	19 078	23 774	29 186	35 376	42 408	-	-
50	10 745	14 058	17 934	22 434	27 624	33 566	40 325	-	-
55	-	13 053	16 742	21 031	25 983	31 661	38 129	-	-
60	-	-	15 508	19 568	24 265	29 663	35 825	-	-
65	-	-	-	18 050	22 476	27 577	33 416	-	-
70	-	-	-	16 480	20 619	25 407	30 907	-	-

Power input in W

35	5 701	5 770	5 826	5 865	5 884	5 877	5 842	-	-
40	6 277	6 349	6 409	6 454	6 478	6 478	6 450	-	-
45	6 928	7 004	7 069	7 119	7 150	7 157	7 137	-	-
50	7 661	7 741	7 811	7 867	7 904	7 920	7 908	-	-
55	-	8 565	8 641	8 704	8 749	8 772	8 769	-	-
60	-	-	9 566	9 635	9 688	9 720	9 727	-	-
65	-	-	-	10 668	10 729	10 770	10 787	-	-
70	-	-	-	11 808	11 878	11 929	11 956	-	-

Current consumption in A

35	14.11	14.20	14.26	14.30	14.31	14.27	14.20	-	-
40	14.67	14.75	14.82	14.87	14.89	14.87	14.81	-	-
45	15.33	15.43	15.50	15.56	15.59	15.58	15.54	-	-
50	16.12	16.22	16.31	16.38	16.42	16.43	16.39	-	-
55	-	17.16	17.26	17.34	17.39	17.41	17.40	-	-
60	-	-	18.36	18.46	18.52	18.56	18.56	-	-
65	-	-	-	19.74	19.82	19.87	19.89	-	-
70	-	-	-	21.20	21.30	21.37	21.40	-	-

Mass flow in kg/h

35	294	368	454	551	661	784	922	-	-
40	288	364	451	548	659	783	921	-	-
45	283	359	446	545	656	780	919	-	-
50	276	354	441	540	651	776	915	-	-
55	-	347	435	534	646	770	909	-	-
60	-	-	428	527	638	763	901	-	-
65	-	-	-	518	629	753	891	-	-
70	-	-	-	508	619	742	879	-	-

Coefficient of performance (C.O.P.)

35	2.31	2.92	3.64	4.48	5.45	6.58	7.91	-	-
40	1.97	2.52	3.15	3.88	4.73	5.72	6.88	-	-
45	1.67	2.15	2.70	3.34	4.08	4.94	5.94	-	-
50	1.40	1.82	2.30	2.85	3.49	4.24	5.10	-	-
55	-	1.52	1.94	2.42	2.97	3.61	4.35	-	-
60	-	-	1.62	2.03	2.50	3.05	3.68	-	-
65	-	-	-	1.69	2.09	2.56	3.10	-	-
70	-	-	-	1.40	1.74	2.13	2.59	-	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	28 603	W
Power input	8 655	W
Current consumption	17.28	A
Mass flow	699	kg/h
C.O.P.	3.30	

Pressure switch settings

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

All performance data +/- 5%

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Performance data at 50 Hz, EN 12900 rating conditions
R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

Cooling capacity in W

35	12 171	15 608	19 649	24 353	29 784	36 002	43 069	-	-
40	11 378	14 696	18 592	23 125	28 358	34 351	41 165	-	-
45	10 565	13 749	17 483	21 829	26 847	32 599	39 145	-	-
50	9 735	12 769	16 326	20 468	25 255	30 749	37 010	-	-
55	-	11 760	15 124	19 046	23 586	28 804	34 763	-	-
60	-	-	13 880	17 565	21 841	26 768	32 407	-	-
65	-	-	-	16 030	20 024	24 642	29 944	-	-
70	-	-	-	14 441	18 137	22 428	27 373	-	-

Power input in W

35	5 701	5 770	5 826	5 865	5 884	5 877	5 842	-	-
40	6 277	6 349	6 409	6 454	6 478	6 478	6 450	-	-
45	6 928	7 004	7 069	7 119	7 150	7 157	7 137	-	-
50	7 661	7 741	7 811	7 867	7 904	7 920	7 908	-	-
55	-	8 565	8 641	8 704	8 749	8 772	8 769	-	-
60	-	-	9 566	9 635	9 688	9 720	9 727	-	-
65	-	-	-	10 668	10 729	10 770	10 787	-	-
70	-	-	-	11 808	11 878	11 929	11 956	-	-

Current consumption in A

35	14.11	14.20	14.26	14.30	14.31	14.27	14.20	-	-
40	14.67	14.75	14.82	14.87	14.89	14.87	14.81	-	-
45	15.33	15.43	15.50	15.56	15.59	15.58	15.54	-	-
50	16.12	16.22	16.31	16.38	16.42	16.43	16.39	-	-
55	-	17.16	17.26	17.34	17.39	17.41	17.40	-	-
60	-	-	18.36	18.46	18.52	18.56	18.56	-	-
65	-	-	-	19.74	19.82	19.87	19.89	-	-
70	-	-	-	21.20	21.30	21.37	21.40	-	-

Mass flow in kg/h

35	295	370	456	554	664	788	927	-	-
40	290	366	453	551	662	787	926	-	-
45	284	361	449	548	659	784	924	-	-
50	278	355	443	543	655	780	920	-	-
55	-	349	437	537	649	774	914	-	-
60	-	-	430	530	642	767	906	-	-
65	-	-	-	521	633	757	896	-	-
70	-	-	-	511	622	746	884	-	-

Coefficient of performance (C.O.P.)

35	2.13	2.71	3.37	4.15	5.06	6.13	7.37	-	-
40	1.81	2.31	2.90	3.58	4.38	5.30	6.38	-	-
45	1.52	1.96	2.47	3.07	3.76	4.55	5.48	-	-
50	1.27	1.65	2.09	2.60	3.20	3.88	4.68	-	-
55	-	1.37	1.75	2.19	2.70	3.28	3.96	-	-
60	-	-	1.45	1.82	2.25	2.75	3.33	-	-
65	-	-	-	1.50	1.87	2.29	2.78	-	-
70	-	-	-	1.22	1.53	1.88	2.29	-	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	25 255	W
Power input	7 904	W
Current consumption	16.42	A
Mass flow	655	kg/h
C.O.P.	3.20	

Pressure switch settings

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

All performance data +/- 5%

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Performance data at 50 Hz, ARI rating conditions
R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

Cooling capacity in W

35	13 182	16 876	21 211	26 249	32 054	38 691	46 222	-	-
40	12 390	15 974	20 172	25 047	30 664	37 085	44 375	-	-
45	11 576	15 033	19 078	23 774	29 186	35 376	42 408	-	-
50	10 745	14 058	17 934	22 434	27 624	33 566	40 325	-	-
55	-	13 053	16 742	21 031	25 983	31 661	38 129	-	-
60	-	-	15 508	19 568	24 265	29 663	35 825	-	-
65	-	-	-	18 050	22 476	27 577	33 416	-	-
70	-	-	-	16 480	20 619	25 407	30 907	-	-

Power input in W

35	5 701	5 770	5 826	5 865	5 884	5 877	5 842	-	-
40	6 277	6 349	6 409	6 454	6 478	6 478	6 450	-	-
45	6 928	7 004	7 069	7 119	7 150	7 157	7 137	-	-
50	7 661	7 741	7 811	7 867	7 904	7 920	7 908	-	-
55	-	8 565	8 641	8 704	8 749	8 772	8 769	-	-
60	-	-	9 566	9 635	9 688	9 720	9 727	-	-
65	-	-	-	10 668	10 729	10 770	10 787	-	-
70	-	-	-	11 808	11 878	11 929	11 956	-	-

Current consumption in A

35	14.11	14.20	14.26	14.30	14.31	14.27	14.20	-	-
40	14.67	14.75	14.82	14.87	14.89	14.87	14.81	-	-
45	15.33	15.43	15.50	15.56	15.59	15.58	15.54	-	-
50	16.12	16.22	16.31	16.38	16.42	16.43	16.39	-	-
55	-	17.16	17.26	17.34	17.39	17.41	17.40	-	-
60	-	-	18.36	18.46	18.52	18.56	18.56	-	-
65	-	-	-	19.74	19.82	19.87	19.89	-	-
70	-	-	-	21.20	21.30	21.37	21.40	-	-

Mass flow in kg/h

35	294	368	454	551	661	784	922	-	-
40	288	364	451	548	659	783	921	-	-
45	283	359	446	545	656	780	919	-	-
50	276	354	441	540	651	776	915	-	-
55	-	347	435	534	646	770	909	-	-
60	-	-	428	527	638	763	901	-	-
65	-	-	-	518	629	753	891	-	-
70	-	-	-	508	619	742	879	-	-

Coefficient of performance (C.O.P.)

35	2.31	2.92	3.64	4.48	5.45	6.58	7.91	-	-
40	1.97	2.52	3.15	3.88	4.73	5.72	6.88	-	-
45	1.67	2.15	2.70	3.34	4.08	4.94	5.94	-	-
50	1.40	1.82	2.30	2.85	3.49	4.24	5.10	-	-
55	-	1.52	1.94	2.42	2.97	3.61	4.35	-	-
60	-	-	1.62	2.03	2.50	3.05	3.68	-	-
65	-	-	-	1.69	2.09	2.56	3.10	-	-
70	-	-	-	1.40	1.74	2.13	2.59	-	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	28 603	W
Power input	8 655	W
Current consumption	17.28	A
Mass flow	699	kg/h
C.O.P.	3.30	

Pressure switch settings

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

All performance data +/- 5%

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Performance data at 50 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	15

Cooling capacity in W

30	15 352	19 551	24 558	30 458	37 334	45 272	54 354	64 666	-
35	14 349	18 420	23 258	28 946	35 568	43 207	51 948	61 873	-
40	13 314	17 230	21 871	27 319	33 657	40 969	49 338	58 849	-
45	-	15 979	20 395	25 574	31 600	38 556	46 525	55 591	-
50	-	-	18 827	23 709	29 394	35 965	43 505	52 096	-
55	-	-	-	21 723	27 039	33 195	40 276	48 362	-
60	-	-	-	-	24 530	30 243	36 834	44 384	-
65	-	-	-	-	21 865	27 103	33 172	40 153	-

Power input in W

30	7 140	7 215	7 283	7 337	7 375	7 394	7 387	7 353	-
35	7 959	8 037	8 106	8 163	8 205	8 227	8 225	8 196	-
40	8 890	8 969	9 041	9 102	9 147	9 173	9 176	9 153	-
45	-	10 027	10 102	10 166	10 215	10 246	10 255	10 237	-
50	-	-	11 302	11 370	11 424	11 460	11 474	11 463	-
55	-	-	-	12 728	12 787	12 828	12 849	12 844	-
60	-	-	-	-	14 317	14 365	14 392	14 394	-
65	-	-	-	-	16 030	16 084	16 117	16 127	-

Current consumption in A

30	15.59	15.71	15.81	15.89	15.94	15.96	15.94	15.87	-
35	16.48	16.60	16.71	16.79	16.85	16.88	16.87	16.82	-
40	17.55	17.68	17.79	17.88	17.95	17.98	17.98	17.94	-
45	-	18.95	19.07	19.17	19.24	19.29	19.30	19.27	-
50	-	-	20.58	20.68	20.77	20.83	20.85	20.83	-
55	-	-	-	22.46	22.56	22.63	22.66	22.66	-
60	-	-	-	-	24.63	24.71	24.76	24.77	-
65	-	-	-	-	27.02	27.11	27.17	27.20	-

Mass flow in kg/h

30	320	400	493	601	724	865	1 023	1 202	-
35	314	395	490	598	722	864	1 023	1 202	-
40	307	389	484	594	719	860	1 020	1 199	-
45	-	382	478	587	712	854	1 014	1 193	-
50	-	-	469	579	704	845	1 004	1 183	-
55	-	-	-	568	692	833	991	1 169	-
60	-	-	-	-	677	817	974	1 151	-
65	-	-	-	-	659	797	953	1 128	-

Coefficient of performance (C.O.P.)

30	2.15	2.71	3.37	4.15	5.06	6.12	7.36	8.79	-
35	1.80	2.29	2.87	3.55	4.33	5.25	6.32	7.55	-
40	1.50	1.92	2.42	3.00	3.68	4.47	5.38	6.43	-
45	-	1.59	2.02	2.52	3.09	3.76	4.54	5.43	-
50	-	-	1.67	2.09	2.57	3.14	3.79	4.54	-
55	-	-	-	1.71	2.11	2.59	3.13	3.77	-
60	-	-	-	-	1.71	2.11	2.56	3.08	-
65	-	-	-	-	1.36	1.69	2.06	2.49	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	35 965	W
Power input	11 460	W
Current consumption	20.83	A
Mass flow	845	kg/h
C.O.P.	3.14	

Pressure switch settings

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	81	dB(A)
With acoustic hood	73	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

All performance data +/- 5%

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Datasheet, performance data

Danfoss scroll compressor. SZ175-4

Performance data at 50 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	15

Cooling capacity in W

30	16 466	20 944	26 279	32 558	39 868	48 296	57 930	68 857	-
35	15 464	19 827	25 003	31 082	38 148	46 291	55 598	66 154	-
40	14 429	18 648	23 637	29 486	36 281	44 110	53 060	63 218	-
45	-	17 404	22 178	27 769	34 264	41 750	50 314	60 045	-
50	-	-	20 623	25 928	32 093	39 208	47 358	56 633	-
55	-	-	-	23 960	29 767	36 482	44 190	52 979	-
60	-	-	-	-	27 284	33 569	40 806	49 081	-
65	-	-	-	-	24 640	30 468	37 205	44 938	-

Power input in W

30	7 140	7 215	7 283	7 337	7 375	7 394	7 387	7 353	-
35	7 959	8 037	8 106	8 163	8 205	8 227	8 225	8 196	-
40	8 890	8 969	9 041	9 102	9 147	9 173	9 176	9 153	-
45	-	10 027	10 102	10 166	10 215	10 246	10 255	10 237	-
50	-	-	11 302	11 370	11 424	11 460	11 474	11 463	-
55	-	-	-	12 728	12 787	12 828	12 849	12 844	-
60	-	-	-	-	14 317	14 365	14 392	14 394	-
65	-	-	-	-	16 030	16 084	16 117	16 127	-

Current consumption in A

30	15.59	15.71	15.81	15.89	15.94	15.96	15.94	15.87	-
35	16.48	16.60	16.71	16.79	16.85	16.88	16.87	16.82	-
40	17.55	17.68	17.79	17.88	17.95	17.98	17.98	17.94	-
45	-	18.95	19.07	19.17	19.24	19.29	19.30	19.27	-
50	-	-	20.58	20.68	20.77	20.83	20.85	20.83	-
55	-	-	-	22.46	22.56	22.63	22.66	22.66	-
60	-	-	-	-	24.63	24.71	24.76	24.77	-
65	-	-	-	-	27.02	27.11	27.17	27.20	-

Mass flow in kg/h

30	318	398	491	598	720	860	1 017	1 195	-
35	312	393	487	595	718	859	1 017	1 195	-
40	305	387	482	591	715	855	1 014	1 192	-
45	-	380	475	584	708	849	1 008	1 186	-
50	-	-	467	576	700	840	998	1 176	-
55	-	-	-	565	688	828	986	1 162	-
60	-	-	-	-	673	812	969	1 144	-
65	-	-	-	-	655	793	948	1 121	-

Coefficient of performance (C.O.P.)

30	2.31	2.90	3.61	4.44	5.41	6.53	7.84	9.36	-
35	1.94	2.47	3.08	3.81	4.65	5.63	6.76	8.07	-
40	1.62	2.08	2.61	3.24	3.97	4.81	5.78	6.91	-
45	-	1.74	2.20	2.73	3.35	4.07	4.91	5.87	-
50	-	-	1.82	2.28	2.81	3.42	4.13	4.94	-
55	-	-	-	1.88	2.33	2.84	3.44	4.12	-
60	-	-	-	-	1.91	2.34	2.84	3.41	-
65	-	-	-	-	1.54	1.89	2.31	2.79	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	40 106	W
Power input	12 667	W
Current consumption	22.41	A
Mass flow	897	kg/h
C.O.P.	3.17	

Pressure switch settings

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	81	dB(A)
With acoustic hood	73	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

All performance data +/- 5%

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Performance data at 60 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	15

Cooling capacity in W

30	19 216	24 239	30 241	37 324	45 592	55 146	66 090	78 526	-
35	17 948	22 814	28 607	35 429	43 382	52 567	63 088	75 047	-
40	16 658	21 334	26 884	33 409	41 011	49 792	59 854	71 300	-
45	-	19 803	25 075	31 268	38 485	46 826	56 394	67 290	-
50	-	-	23 187	29 014	35 810	43 676	52 713	63 023	-
55	-	-	-	26 651	32 991	40 346	48 816	58 502	-
60	-	-	-	-	30 032	36 839	44 705	53 729	-
65	-	-	-	-	26 934	33 156	40 379	48 701	-

Power input in W

30	8 529	8 672	8 804	8 920	9 015	9 084	9 120	9 119	-
35	9 481	9 628	9 766	9 890	9 994	10 074	10 123	10 136	-
40	10 550	10 703	10 848	10 981	11 096	11 188	11 251	11 280	-
45	-	11 913	12 067	12 209	12 336	12 441	12 519	12 565	-
50	-	-	13 436	13 590	13 729	13 848	13 942	14 006	-
55	-	-	-	15 137	15 290	15 425	15 536	15 618	-
60	-	-	-	-	17 034	17 185	17 315	17 416	-
65	-	-	-	-	18 975	19 145	19 293	19 416	-

Current consumption in A

30	14.86	15.02	15.17	15.30	15.39	15.45	15.46	15.42	-
35	15.85	16.03	16.19	16.33	16.44	16.51	16.54	16.52	-
40	17.02	17.20	17.38	17.53	17.66	17.75	17.81	17.81	-
45	-	18.58	18.77	18.94	19.08	19.20	19.28	19.31	-
50	-	-	20.38	20.57	20.74	20.88	20.98	21.05	-
55	-	-	-	22.46	22.65	22.82	22.95	23.04	-
60	-	-	-	-	24.85	25.04	25.20	25.33	-
65	-	-	-	-	27.35	27.57	27.77	27.93	-

Mass flow in kg/h

30	401	496	608	736	884	1 053	1 244	1 459	-
35	393	490	602	732	881	1 051	1 243	1 458	-
40	384	482	595	726	876	1 046	1 238	1 453	-
45	-	473	587	718	868	1 037	1 229	1 444	-
50	-	-	578	708	857	1 026	1 217	1 431	-
55	-	-	-	696	844	1 012	1 201	1 414	-
60	-	-	-	-	829	995	1 183	1 393	-
65	-	-	-	-	812	975	1 160	1 368	-

Coefficient of performance (C.O.P.)

30	2.25	2.80	3.43	4.18	5.06	6.07	7.25	8.61	-
35	1.89	2.37	2.93	3.58	4.34	5.22	6.23	7.40	-
40	1.58	1.99	2.48	3.04	3.70	4.45	5.32	6.32	-
45	-	1.66	2.08	2.56	3.12	3.76	4.50	5.36	-
50	-	-	1.73	2.13	2.61	3.15	3.78	4.50	-
55	-	-	-	1.76	2.16	2.62	3.14	3.75	-
60	-	-	-	-	1.76	2.14	2.58	3.08	-
65	-	-	-	-	1.42	1.73	2.09	2.51	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	43 676	W
Power input	13 848	W
Current consumption	20.88	A
Mass flow	1 026	kg/h
C.O.P.	3.15	

Pressure switch settings

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	84	dB(A)
With acoustic hood	76	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

All performance data +/- 5%

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Performance data at 60 Hz, ARI rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	15

Cooling capacity in W

30	20 610	25 967	32 360	39 898	48 685	58 829	70 437	83 615	-
35	19 343	24 556	30 754	38 043	46 529	56 320	67 521	80 240	-
40	18 054	23 088	29 054	36 059	44 208	53 609	64 369	76 593	-
45	-	21 569	27 268	33 952	41 729	50 705	60 987	72 681	-
50	-	-	25 400	31 729	39 098	47 613	57 382	68 510	-
55	-	-	-	29 395	36 320	44 340	53 559	64 086	-
60	-	-	-	-	33 403	40 891	49 526	59 416	-
65	-	-	-	-	30 352	37 272	45 287	54 504	-

Power input in W

30	8 529	8 672	8 804	8 920	9 015	9 084	9 120	9 119	-
35	9 481	9 628	9 766	9 890	9 994	10 074	10 123	10 136	-
40	10 550	10 703	10 848	10 981	11 096	11 188	11 251	11 280	-
45	-	11 913	12 067	12 209	12 336	12 441	12 519	12 565	-
50	-	-	13 436	13 590	13 729	13 848	13 942	14 006	-
55	-	-	-	15 137	15 290	15 425	15 536	15 618	-
60	-	-	-	-	17 034	17 185	17 315	17 416	-
65	-	-	-	-	18 975	19 145	19 293	19 416	-

Current consumption in A

30	14.86	15.02	15.17	15.30	15.39	15.45	15.46	15.42	-
35	15.85	16.03	16.19	16.33	16.44	16.51	16.54	16.52	-
40	17.02	17.20	17.38	17.53	17.66	17.75	17.81	17.81	-
45	-	18.58	18.77	18.94	19.08	19.20	19.28	19.31	-
50	-	-	20.38	20.57	20.74	20.88	20.98	21.05	-
55	-	-	-	22.46	22.65	22.82	22.95	23.04	-
60	-	-	-	-	24.85	25.04	25.20	25.33	-
65	-	-	-	-	27.35	27.57	27.77	27.93	-

Mass flow in kg/h

30	399	494	604	732	879	1 047	1 237	1 450	-
35	390	487	599	728	876	1 045	1 235	1 449	-
40	382	479	592	722	871	1 040	1 230	1 444	-
45	-	471	584	714	863	1 031	1 222	1 435	-
50	-	-	575	704	852	1 020	1 210	1 422	-
55	-	-	-	693	840	1 006	1 194	1 405	-
60	-	-	-	-	825	989	1 176	1 384	-
65	-	-	-	-	807	970	1 153	1 360	-

Coefficient of performance (C.O.P.)

30	2.42	2.99	3.68	4.47	5.40	6.48	7.72	9.17	-
35	2.04	2.55	3.15	3.85	4.66	5.59	6.67	7.92	-
40	1.71	2.16	2.68	3.28	3.98	4.79	5.72	6.79	-
45	-	1.81	2.26	2.78	3.38	4.08	4.87	5.78	-
50	-	-	1.89	2.33	2.85	3.44	4.12	4.89	-
55	-	-	-	1.94	2.38	2.87	3.45	4.10	-
60	-	-	-	-	1.96	2.38	2.86	3.41	-
65	-	-	-	-	1.60	1.95	2.35	2.81	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	48 673	W
Power input	15 277	W
Current consumption	22.63	A
Mass flow	1 088	kg/h
C.O.P.	3.19	

Pressure switch settings

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	84	dB(A)
With acoustic hood	76	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

All performance data +/- 5%

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Performance data at 60 Hz, EN 12900 rating conditions
R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

Cooling capacity in W

35	15 032	19 000	23 708	29 235	35 663	43 073	51 547	-	-
40	14 108	17 937	22 474	27 799	33 994	41 139	49 316	-	-
45	13 152	16 823	21 170	26 275	32 217	39 077	46 937	-	-
50	12 169	15 663	19 803	24 667	30 337	36 893	44 416	-	-
55	-	14 464	18 376	22 982	28 360	34 592	41 758	-	-
60	-	-	16 896	21 223	26 290	32 178	38 966	-	-
65	-	-	-	19 396	24 131	29 654	36 043	-	-
70	-	-	-	17 504	21 887	27 023	32 991	-	-

Power input in W

35	6 755	6 853	6 942	7 018	7 076	7 113	7 125	-	-
40	7 434	7 539	7 635	7 720	7 788	7 837	7 862	-	-
45	8 197	8 309	8 414	8 508	8 588	8 649	8 688	-	-
50	9 051	9 170	9 284	9 389	9 481	9 555	9 609	-	-
55	-	10 129	10 253	10 369	10 474	10 563	10 632	-	-
60	-	-	11 326	11 455	11 573	11 678	11 764	-	-
65	-	-	-	12 653	12 786	12 906	13 010	-	-
70	-	-	-	13 969	14 117	14 255	14 377	-	-

Current consumption in A

35	13.33	13.44	13.53	13.60	13.66	13.69	13.70	-	-
40	14.03	14.14	14.24	14.33	14.40	14.45	14.47	-	-
45	14.84	14.96	15.08	15.18	15.27	15.33	15.38	-	-
50	15.79	15.92	16.05	16.17	16.27	16.36	16.42	-	-
55	-	17.03	17.17	17.31	17.43	17.54	17.62	-	-
60	-	-	18.46	18.61	18.75	18.88	18.99	-	-
65	-	-	-	20.09	20.25	20.40	20.54	-	-
70	-	-	-	21.76	21.94	22.12	22.28	-	-

Mass flow in kg/h

35	365	451	550	665	795	943	1 109	-	-
40	359	447	547	663	794	942	1 110	-	-
45	354	442	543	659	791	940	1 108	-	-
50	347	436	538	654	787	936	1 104	-	-
55	-	429	531	648	780	930	1 098	-	-
60	-	-	523	640	772	922	1 089	-	-
65	-	-	-	630	762	911	1 078	-	-
70	-	-	-	619	751	899	1 065	-	-

Coefficient of performance (C.O.P.)

35	2.23	2.77	3.42	4.17	5.04	6.06	7.23	-	-
40	1.90	2.38	2.94	3.60	4.36	5.25	6.27	-	-
45	1.60	2.02	2.52	3.09	3.75	4.52	5.40	-	-
50	1.34	1.71	2.13	2.63	3.20	3.86	4.62	-	-
55	-	1.43	1.79	2.22	2.71	3.27	3.93	-	-
60	-	-	1.49	1.85	2.27	2.76	3.31	-	-
65	-	-	-	1.53	1.89	2.30	2.77	-	-
70	-	-	-	1.25	1.55	1.90	2.29	-	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	30 337	W
Power input	9 481	W
Current consumption	16.27	A
Mass flow	787	kg/h
C.O.P.	3.20	

Pressure switch settings

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

All performance data +/- 5%

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Datasheet, performance data

Danfoss scroll compressor. SZ175-4

Performance data at 60 Hz, ARI rating conditions

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

Cooling capacity in W

35	16 281	20 544	25 592	31 510	38 381	46 290	55 321	-	-
40	15 363	19 496	24 383	30 109	36 758	44 414	53 161	-	-
45	14 411	18 394	23 101	28 616	35 023	42 406	50 850	-	-
50	13 431	17 245	21 752	27 037	33 183	40 274	48 395	-	-
55	-	16 054	20 342	25 377	31 242	38 022	45 801	-	-
60	-	-	18 877	23 643	29 208	35 658	43 076	-	-
65	-	-	-	21 840	27 086	33 186	40 223	-	-
70	-	-	-	19 974	24 882	30 613	37 250	-	-

Power input in W

35	6 755	6 853	6 942	7 018	7 076	7 113	7 125	-	-
40	7 434	7 539	7 635	7 720	7 788	7 837	7 862	-	-
45	8 197	8 309	8 414	8 508	8 588	8 649	8 688	-	-
50	9 051	9 170	9 284	9 389	9 481	9 555	9 609	-	-
55	-	10 129	10 253	10 369	10 474	10 563	10 632	-	-
60	-	-	11 326	11 455	11 573	11 678	11 764	-	-
65	-	-	-	12 653	12 786	12 906	13 010	-	-
70	-	-	-	13 969	14 117	14 255	14 377	-	-

Current consumption in A

35	13.33	13.44	13.53	13.60	13.66	13.69	13.70	-	-
40	14.03	14.14	14.24	14.33	14.40	14.45	14.47	-	-
45	14.84	14.96	15.08	15.18	15.27	15.33	15.38	-	-
50	15.79	15.92	16.05	16.17	16.27	16.36	16.42	-	-
55	-	17.03	17.17	17.31	17.43	17.54	17.62	-	-
60	-	-	18.46	18.61	18.75	18.88	18.99	-	-
65	-	-	-	20.09	20.25	20.40	20.54	-	-
70	-	-	-	21.76	21.94	22.12	22.28	-	-

Mass flow in kg/h

35	363	448	548	661	791	938	1 103	-	-
40	358	444	545	659	790	937	1 103	-	-
45	352	440	540	656	787	935	1 102	-	-
50	346	434	535	651	783	931	1 098	-	-
55	-	427	529	645	776	925	1 092	-	-
60	-	-	521	637	768	917	1 083	-	-
65	-	-	-	627	758	906	1 073	-	-
70	-	-	-	616	747	894	1 059	-	-

Coefficient of performance (C.O.P.)

35	2.41	3.00	3.69	4.49	5.42	6.51	7.76	-	-
40	2.07	2.59	3.19	3.90	4.72	5.67	6.76	-	-
45	1.76	2.21	2.75	3.36	4.08	4.90	5.85	-	-
50	1.48	1.88	2.34	2.88	3.50	4.21	5.04	-	-
55	-	1.58	1.98	2.45	2.98	3.60	4.31	-	-
60	-	-	1.67	2.06	2.52	3.05	3.66	-	-
65	-	-	-	1.73	2.12	2.57	3.09	-	-
70	-	-	-	1.43	1.76	2.15	2.59	-	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	34 362	W
Power input	10 390	W
Current consumption	17.33	A
Mass flow	840	kg/h
C.O.P.	3.31	

Pressure switch settings

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

All performance data +/- 5%

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Performance data at 60 Hz, EN 12900 rating conditions
R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

Cooling capacity in W

35	15 032	19 000	23 708	29 235	35 663	43 073	51 547	-	-
40	14 108	17 937	22 474	27 799	33 994	41 139	49 316	-	-
45	13 152	16 823	21 170	26 275	32 217	39 077	46 937	-	-
50	12 169	15 663	19 803	24 667	30 337	36 893	44 416	-	-
55	-	14 464	18 376	22 982	28 360	34 592	41 758	-	-
60	-	-	16 896	21 223	26 290	32 178	38 966	-	-
65	-	-	-	19 396	24 131	29 654	36 043	-	-
70	-	-	-	17 504	21 887	27 023	32 991	-	-

Power input in W

35	6 755	6 853	6 942	7 018	7 076	7 113	7 125	-	-
40	7 434	7 539	7 635	7 720	7 788	7 837	7 862	-	-
45	8 197	8 309	8 414	8 508	8 588	8 649	8 688	-	-
50	9 051	9 170	9 284	9 389	9 481	9 555	9 609	-	-
55	-	10 129	10 253	10 369	10 474	10 563	10 632	-	-
60	-	-	11 326	11 455	11 573	11 678	11 764	-	-
65	-	-	-	12 653	12 786	12 906	13 010	-	-
70	-	-	-	13 969	14 117	14 255	14 377	-	-

Current consumption in A

35	13.33	13.44	13.53	13.60	13.66	13.69	13.70	-	-
40	14.03	14.14	14.24	14.33	14.40	14.45	14.47	-	-
45	14.84	14.96	15.08	15.18	15.27	15.33	15.38	-	-
50	15.79	15.92	16.05	16.17	16.27	16.36	16.42	-	-
55	-	17.03	17.17	17.31	17.43	17.54	17.62	-	-
60	-	-	18.46	18.61	18.75	18.88	18.99	-	-
65	-	-	-	20.09	20.25	20.40	20.54	-	-
70	-	-	-	21.76	21.94	22.12	22.28	-	-

Mass flow in kg/h

35	365	451	550	665	795	943	1 109	-	-
40	359	447	547	663	794	942	1 110	-	-
45	354	442	543	659	791	940	1 108	-	-
50	347	436	538	654	787	936	1 104	-	-
55	-	429	531	648	780	930	1 098	-	-
60	-	-	523	640	772	922	1 089	-	-
65	-	-	-	630	762	911	1 078	-	-
70	-	-	-	619	751	899	1 065	-	-

Coefficient of performance (C.O.P.)

35	2.23	2.77	3.42	4.17	5.04	6.06	7.23	-	-
40	1.90	2.38	2.94	3.60	4.36	5.25	6.27	-	-
45	1.60	2.02	2.52	3.09	3.75	4.52	5.40	-	-
50	1.34	1.71	2.13	2.63	3.20	3.86	4.62	-	-
55	-	1.43	1.79	2.22	2.71	3.27	3.93	-	-
60	-	-	1.49	1.85	2.27	2.76	3.31	-	-
65	-	-	-	1.53	1.89	2.30	2.77	-	-
70	-	-	-	1.25	1.55	1.90	2.29	-	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	30 337	W
Power input	9 481	W
Current consumption	16.27	A
Mass flow	787	kg/h
C.O.P.	3.20	

Pressure switch settings

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

All performance data +/- 5%

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Performance data at 60 Hz, ARI rating conditions
R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

Cooling capacity in W

35	16 281	20 544	25 592	31 510	38 381	46 290	55 321	-	-
40	15 363	19 496	24 383	30 109	36 758	44 414	53 161	-	-
45	14 411	18 394	23 101	28 616	35 023	42 406	50 850	-	-
50	13 431	17 245	21 752	27 037	33 183	40 274	48 395	-	-
55	-	16 054	20 342	25 377	31 242	38 022	45 801	-	-
60	-	-	18 877	23 643	29 208	35 658	43 076	-	-
65	-	-	-	21 840	27 086	33 186	40 223	-	-
70	-	-	-	19 974	24 882	30 613	37 250	-	-

Power input in W

35	6 755	6 853	6 942	7 018	7 076	7 113	7 125	-	-
40	7 434	7 539	7 635	7 720	7 788	7 837	7 862	-	-
45	8 197	8 309	8 414	8 508	8 588	8 649	8 688	-	-
50	9 051	9 170	9 284	9 389	9 481	9 555	9 609	-	-
55	-	10 129	10 253	10 369	10 474	10 563	10 632	-	-
60	-	-	11 326	11 455	11 573	11 678	11 764	-	-
65	-	-	-	12 653	12 786	12 906	13 010	-	-
70	-	-	-	13 969	14 117	14 255	14 377	-	-

Current consumption in A

35	13.33	13.44	13.53	13.60	13.66	13.69	13.70	-	-
40	14.03	14.14	14.24	14.33	14.40	14.45	14.47	-	-
45	14.84	14.96	15.08	15.18	15.27	15.33	15.38	-	-
50	15.79	15.92	16.05	16.17	16.27	16.36	16.42	-	-
55	-	17.03	17.17	17.31	17.43	17.54	17.62	-	-
60	-	-	18.46	18.61	18.75	18.88	18.99	-	-
65	-	-	-	20.09	20.25	20.40	20.54	-	-
70	-	-	-	21.76	21.94	22.12	22.28	-	-

Mass flow in kg/h

35	363	448	548	661	791	938	1 103	-	-
40	358	444	545	659	790	937	1 103	-	-
45	352	440	540	656	787	935	1 102	-	-
50	346	434	535	651	783	931	1 098	-	-
55	-	427	529	645	776	925	1 092	-	-
60	-	-	521	637	768	917	1 083	-	-
65	-	-	-	627	758	906	1 073	-	-
70	-	-	-	616	747	894	1 059	-	-

Coefficient of performance (C.O.P.)

35	2.41	3.00	3.69	4.49	5.42	6.51	7.76	-	-
40	2.07	2.59	3.19	3.90	4.72	5.67	6.76	-	-
45	1.76	2.21	2.75	3.36	4.08	4.90	5.85	-	-
50	1.48	1.88	2.34	2.88	3.50	4.21	5.04	-	-
55	-	1.58	1.98	2.45	2.98	3.60	4.31	-	-
60	-	-	1.67	2.06	2.52	3.05	3.66	-	-
65	-	-	-	1.73	2.12	2.57	3.09	-	-
70	-	-	-	1.43	1.76	2.15	2.59	-	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	34 362	W
Power input	10 390	W
Current consumption	17.33	A
Mass flow	840	kg/h
C.O.P.	3.31	

Pressure switch settings

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

All performance data +/- 5%

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Performance data at 60 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	15

Cooling capacity in W

30	19 216	24 239	30 241	37 324	45 592	55 146	66 090	78 526	-
35	17 948	22 814	28 607	35 429	43 382	52 567	63 088	75 047	-
40	16 658	21 334	26 884	33 409	41 011	49 792	59 854	71 300	-
45	-	19 803	25 075	31 268	38 485	46 826	56 394	67 290	-
50	-	-	23 187	29 014	35 810	43 676	52 713	63 023	-
55	-	-	-	26 651	32 991	40 346	48 816	58 502	-
60	-	-	-	-	30 032	36 839	44 705	53 729	-
65	-	-	-	-	26 934	33 156	40 379	48 701	-

Power input in W

30	8 529	8 672	8 804	8 920	9 015	9 084	9 120	9 119	-
35	9 481	9 628	9 766	9 890	9 994	10 074	10 123	10 136	-
40	10 550	10 703	10 848	10 981	11 096	11 188	11 251	11 280	-
45	-	11 913	12 067	12 209	12 336	12 441	12 519	12 565	-
50	-	-	13 436	13 590	13 729	13 848	13 942	14 006	-
55	-	-	-	15 137	15 290	15 425	15 536	15 618	-
60	-	-	-	-	17 034	17 185	17 315	17 416	-
65	-	-	-	-	18 975	19 145	19 293	19 416	-

Current consumption in A

30	14.86	15.02	15.17	15.30	15.39	15.45	15.46	15.42	-
35	15.85	16.03	16.19	16.33	16.44	16.51	16.54	16.52	-
40	17.02	17.20	17.38	17.53	17.66	17.75	17.81	17.81	-
45	-	18.58	18.77	18.94	19.08	19.20	19.28	19.31	-
50	-	-	20.38	20.57	20.74	20.88	20.98	21.05	-
55	-	-	-	22.46	22.65	22.82	22.95	23.04	-
60	-	-	-	-	24.85	25.04	25.20	25.33	-
65	-	-	-	-	27.35	27.57	27.77	27.93	-

Mass flow in kg/h

30	401	496	608	736	884	1 053	1 244	1 459	-
35	393	490	602	732	881	1 051	1 243	1 458	-
40	384	482	595	726	876	1 046	1 238	1 453	-
45	-	473	587	718	868	1 037	1 229	1 444	-
50	-	-	578	708	857	1 026	1 217	1 431	-
55	-	-	-	696	844	1 012	1 201	1 414	-
60	-	-	-	-	829	995	1 183	1 393	-
65	-	-	-	-	812	975	1 160	1 368	-

Coefficient of performance (C.O.P.)

30	2.25	2.80	3.43	4.18	5.06	6.07	7.25	8.61	-
35	1.89	2.37	2.93	3.58	4.34	5.22	6.23	7.40	-
40	1.58	1.99	2.48	3.04	3.70	4.45	5.32	6.32	-
45	-	1.66	2.08	2.56	3.12	3.76	4.50	5.36	-
50	-	-	1.73	2.13	2.61	3.15	3.78	4.50	-
55	-	-	-	1.76	2.16	2.62	3.14	3.75	-
60	-	-	-	-	1.76	2.14	2.58	3.08	-
65	-	-	-	-	1.42	1.73	2.09	2.51	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	43 676	W
Power input	13 848	W
Current consumption	20.88	A
Mass flow	1 026	kg/h
C.O.P.	3.15	

Pressure switch settings

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	84	dB(A)
With acoustic hood	76	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

All performance data +/- 5%

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Performance data at 60 Hz, ARI rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	15

Cooling capacity in W

30	20 610	25 967	32 360	39 898	48 685	58 829	70 437	83 615	-
35	19 343	24 556	30 754	38 043	46 529	56 320	67 521	80 240	-
40	18 054	23 088	29 054	36 059	44 208	53 609	64 369	76 593	-
45	-	21 569	27 268	33 952	41 729	50 705	60 987	72 681	-
50	-	-	25 400	31 729	39 098	47 613	57 382	68 510	-
55	-	-	-	29 395	36 320	44 340	53 559	64 086	-
60	-	-	-	-	33 403	40 891	49 526	59 416	-
65	-	-	-	-	30 352	37 272	45 287	54 504	-

Power input in W

30	8 529	8 672	8 804	8 920	9 015	9 084	9 120	9 119	-
35	9 481	9 628	9 766	9 890	9 994	10 074	10 123	10 136	-
40	10 550	10 703	10 848	10 981	11 096	11 188	11 251	11 280	-
45	-	11 913	12 067	12 209	12 336	12 441	12 519	12 565	-
50	-	-	13 436	13 590	13 729	13 848	13 942	14 006	-
55	-	-	-	15 137	15 290	15 425	15 536	15 618	-
60	-	-	-	-	17 034	17 185	17 315	17 416	-
65	-	-	-	-	18 975	19 145	19 293	19 416	-

Current consumption in A

30	14.86	15.02	15.17	15.30	15.39	15.45	15.46	15.42	-
35	15.85	16.03	16.19	16.33	16.44	16.51	16.54	16.52	-
40	17.02	17.20	17.38	17.53	17.66	17.75	17.81	17.81	-
45	-	18.58	18.77	18.94	19.08	19.20	19.28	19.31	-
50	-	-	20.38	20.57	20.74	20.88	20.98	21.05	-
55	-	-	-	22.46	22.65	22.82	22.95	23.04	-
60	-	-	-	-	24.85	25.04	25.20	25.33	-
65	-	-	-	-	27.35	27.57	27.77	27.93	-

Mass flow in kg/h

30	399	494	604	732	879	1 047	1 237	1 450	-
35	390	487	599	728	876	1 045	1 235	1 449	-
40	382	479	592	722	871	1 040	1 230	1 444	-
45	-	471	584	714	863	1 031	1 222	1 435	-
50	-	-	575	704	852	1 020	1 210	1 422	-
55	-	-	-	693	840	1 006	1 194	1 405	-
60	-	-	-	-	825	989	1 176	1 384	-
65	-	-	-	-	807	970	1 153	1 360	-

Coefficient of performance (C.O.P.)

30	2.42	2.99	3.68	4.47	5.40	6.48	7.72	9.17	-
35	2.04	2.55	3.15	3.85	4.66	5.59	6.67	7.92	-
40	1.71	2.16	2.68	3.28	3.98	4.79	5.72	6.79	-
45	-	1.81	2.26	2.78	3.38	4.08	4.87	5.78	-
50	-	-	1.89	2.33	2.85	3.44	4.12	4.89	-
55	-	-	-	1.94	2.38	2.87	3.45	4.10	-
60	-	-	-	-	1.96	2.38	2.86	3.41	-
65	-	-	-	-	1.60	1.95	2.35	2.81	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	48 673	W
Power input	15 277	W
Current consumption	22.63	A
Mass flow	1 088	kg/h
C.O.P.	3.19	

Pressure switch settings

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	84	dB(A)
With acoustic hood	76	dB(A)

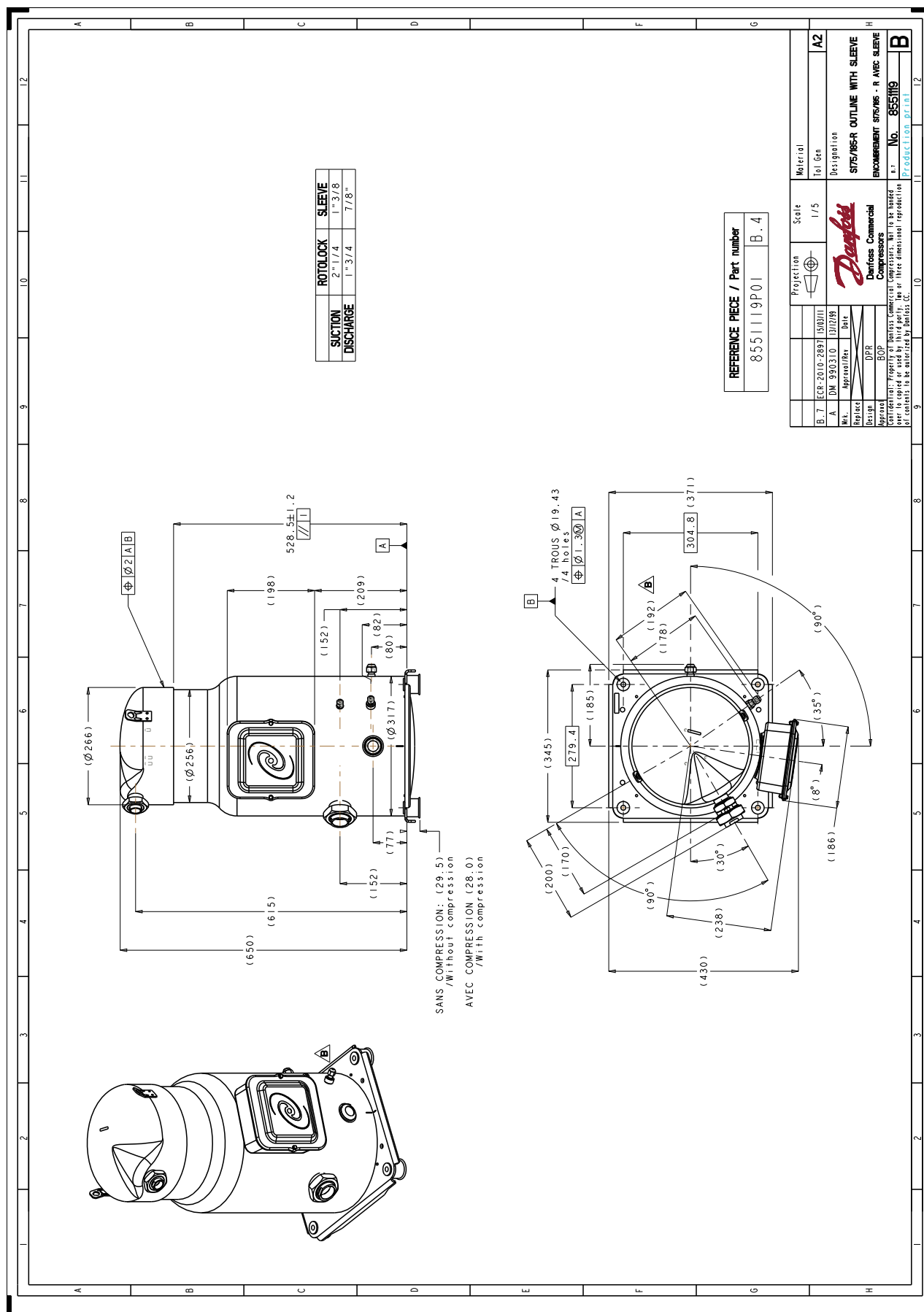
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

All performance data +/- 5%

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