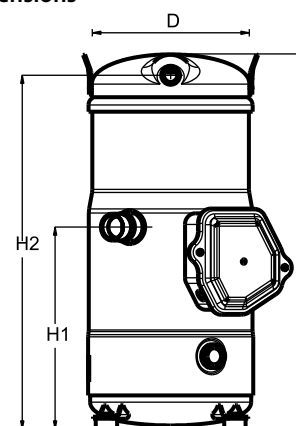


General Characteristics

Model number (on compressor nameplate)		DSH184A4ALC
Code number for Singlepack*		120H1222
Code number for Industrial pack**		120H1223
Drawing number		8560023e
Suction and discharge connections		Brazed
Suction connection		1-3/8" ODF
Discharge connection		7/8" ODF
Oil sight glass		Threaded
Oil equalisation connection		1-3/4" Rotolock
Oil drain connection		None
LP gauge port		Schrader
IPR valve		None
Swept volume		170.3 cm ³ /rev
Displacement @ Nominal speed		29.6 m ³ /h @ 2900 rpm - 35.8 m ³ /h @ 3500 rpm
Net weight		72 kg
Oil charge		3.6 litre, POE - 160SZ
Maximum system test pressure Low Side / High side		33.3 bar(g) / 48.7 bar(g)
Maximum differential test pressure		37 bar
Maximum number of starts per hour		12
Refrigerant charge limit		10 kg
Approved refrigerants		R410A, R452B, R454B

Dimensions


D=243 mm

H=555 mm

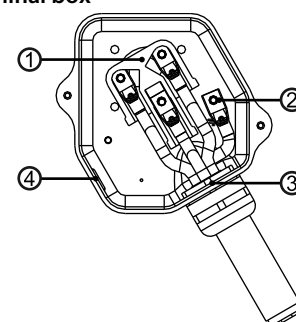
H1=300 mm

H2=525 mm

H3=- mm

Electrical Characteristics

Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz
Voltage range	342-457 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25°C	0.83 Ω
Rated Load Amps (RLA)	27.6 A
Maximum Continuous Current (MCC)	38.6 A
Locked Rotor Amps (LRA)	197 A
Motor protection	Internal overload protector

Terminal box


IP54 (with cable gland)

1: Power connection, 3 x 4.8 mm (3/16")

2: Earth M4

3: Hole Ø 40.5 mm (1.59")

4: Knock-out Ø 16.5 mm (0.65")

Recommended Installation torques

Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Mounting bolts	15 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: 8 Unboxed compressors on pallet (order per multiples of 8)

Rotolock accessories, suction side
Code no.

Solder sleeve, P10 (1-3/4" Rotolock, 1-3/8" ODF)	8153003
Rotolock adapter (1"3/4 Rotolock, 1"3/8 ODF)	120Z0431
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side
Code no.

Rotolock adapter (1-1/4" Rotolock, 7/8" ODF)	120Z0367
Gasket, 1-1/4"	8156131

Rotolock accessories, sets
Code no.

Solder sleeve adapter set (1-3/4" Rotolock, 1-3/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0405
Valve set, V10 (1-3/4"~1-3/8"), V05 (1-1/4"~7/8")	7703392

Oil / lubricants
Code no.

POE lubricant, 160SZ, 1 litre can	7754023
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Crankcase heaters
Code no.

Surface sump heater, 80 W, 24 V, CE mark, UL	120Z0388
Surface sump heater, 80 W, 230 V, CE mark, UL	120Z0389
Surface sump heater, 80 W, 400 V, CE mark, UL	120Z0390
Surface sump heater, 80 W, 460 V, CE mark, UL	120Z0391

Miscellaneous accessories
Code no.

Electronic soft start kit, MCI 25 C	7705007
Acoustic hood for scroll compressor SH184	120Z0135
Gasket, 1-3/4"	8156132
Discharge thermostat kit	7750009

Spare parts
Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z0066
Oil sight glass with gaskets (black & white)	8156019
Terminal box cover	120Z0413
T block connector 60 x 75 mm	8173021

Datasheet, performance data

Danfoss scroll compressor. DSH184-4

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

R410A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-20	-15	-10	-5	0	5	10	20

Cooling capacity in W

10	15 742	23 908	29 216	35 465	42 746	51 154	60 780	-	-
20	13 942	21 753	26 757	32 617	39 425	47 275	56 259	66 470	-
30	12 242	19 502	24 104	29 478	35 715	42 910	51 155	60 542	83 114
40	-	17 115	21 218	26 008	31 577	38 020	45 427	53 893	74 370
50	-	-	18 058	22 166	26 970	32 563	39 036	46 483	64 669
60	-	-	-	-	21 854	26 499	31 941	38 271	53 972
65	-	-	-	-	-	-	28 116	33 852	48 237
68	-	-	-	-	-	-	-	31 098	-

Power input in W

10	5 064	5 148	5 076	4 882	4 532	3 992	3 225	-	-
20	6 282	6 467	6 516	6 489	6 353	6 072	5 612	4 938	-
30	7 760	7 903	8 000	8 068	8 073	7 979	7 753	7 360	5 934
40	-	9 720	9 793	9 883	9 956	9 978	9 914	9 729	8 858
50	-	-	12 159	12 199	12 269	12 333	12 358	12 309	11 849
60	-	-	-	-	15 274	15 309	15 350	15 364	15 171
65	-	-	-	-	-	-	17 135	17 153	17 038
68	-	-	-	-	-	-	-	18 329	-

Current consumption in A

10	15.16	15.28	15.26	15.14	14.89	14.48	13.90	-	-
20	16.10	16.30	16.35	16.35	16.25	16.02	15.64	15.07	-
30	17.50	17.69	17.80	17.87	17.87	17.79	17.58	17.21	15.91
40	-	19.70	19.81	19.92	20.00	20.02	19.94	19.75	18.88
50	-	-	22.62	22.74	22.85	22.94	22.97	22.90	22.39
60	-	-	-	-	26.66	26.78	26.87	26.90	26.67
65	-	-	-	-	-	-	29.23	29.29	29.18
68	-	-	-	-	-	-	-	30.87	-

Mass flow in kg/h

10	275	416	503	603	719	851	1 003	-	-
20	269	411	498	599	715	848	1 000	1 173	-
30	260	402	489	590	706	838	990	1 163	1 577
40	-	390	476	576	691	822	973	1 144	1 556
50	-	-	460	558	671	801	949	1 118	1 526
60	-	-	-	-	646	773	919	1 085	1 487
65	-	-	-	-	-	-	901	1 066	1 464
68	-	-	-	-	-	-	-	1 054	-

Coefficient of performance (C.O.P.)

10	3.11	4.64	5.76	7.26	9.43	12.82	18.84	-	-
20	2.22	3.36	4.11	5.03	6.21	7.79	10.03	13.46	-
30	1.58	2.47	3.01	3.65	4.42	5.38	6.60	8.23	14.01
40	-	1.76	2.17	2.63	3.17	3.81	4.58	5.54	8.40
50	-	-	1.49	1.82	2.20	2.64	3.16	3.78	5.46
60	-	-	-	-	1.43	1.73	2.08	2.49	3.56
65	-	-	-	-	-	-	1.64	1.97	2.83
68	-	-	-	-	-	-	-	1.70	-

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

Cooling capacity	39 036	W
Power input	12 358	W
Current consumption	22.97	A
Mass flow	949	kg/h
C.O.P.	3.16	

Pressure switch settings

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	78	dB(A)
With accoustic hood	72	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Datasheet, performance data

Danfoss scroll compressor. DSH184-4

Performance data at 50 Hz, ARI rating conditions SH=11.1K SC=8.3K

R410A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-20	-15	-10	-5	0	5	10	20

Cooling capacity in W

10	16 710	25 341	30 946	37 539	45 218	54 078	64 215	-	-
20	14 917	23 233	28 554	34 780	42 008	50 336	59 860	70 678	-
30	13 236	21 039	25 977	31 738	38 419	46 119	54 935	64 966	89 060
40	-	18 724	23 182	28 380	34 419	41 397	49 412	58 566	80 680
50	-	-	20 146	24 689	29 994	36 162	43 293	51 489	71 478
60	-	-	-	-	25 229	30 525	36 720	43 918	61 742
65	-	-	-	-	-	-	33 490	40 224	57 079
68	-	-	-	-	-	-	-	38 283	-

Power input in W

10	5 064	5 148	5 076	4 882	4 532	3 992	3 225	-	-
20	6 282	6 467	6 516	6 489	6 353	6 072	5 612	4 938	-
30	7 760	7 903	8 000	8 068	8 073	7 979	7 753	7 360	5 934
40	-	9 720	9 793	9 883	9 956	9 978	9 914	9 729	8 858
50	-	-	12 159	12 199	12 269	12 333	12 358	12 309	11 849
60	-	-	-	-	15 274	15 309	15 350	15 364	15 171
65	-	-	-	-	-	-	17 135	17 153	17 038
68	-	-	-	-	-	-	-	18 329	-

Current consumption in A

10	15.16	15.28	15.26	15.14	14.89	14.48	13.90	-	-
20	16.10	16.30	16.35	16.35	16.25	16.02	15.64	15.07	-
30	17.50	17.69	17.80	17.87	17.87	17.79	17.58	17.21	15.91
40	-	19.70	19.81	19.92	20.00	20.02	19.94	19.75	18.88
50	-	-	22.62	22.74	22.85	22.94	22.97	22.90	22.39
60	-	-	-	-	26.66	26.78	26.87	26.90	26.67
65	-	-	-	-	-	-	29.23	29.29	29.18
68	-	-	-	-	-	-	-	30.87	-

Mass flow in kg/h

10	274	414	500	599	714	846	996	-	-
20	267	408	495	595	710	843	993	1 165	-
30	259	399	486	586	701	833	983	1 154	1 564
40	-	388	474	572	686	817	966	1 136	1 544
50	-	-	458	555	667	795	943	1 110	1 514
60	-	-	-	-	642	768	913	1 077	1 475
65	-	-	-	-	-	-	895	1 058	1 452
68	-	-	-	-	-	-	-	1 046	-

Coefficient of performance (C.O.P.)

10	3.30	4.92	6.10	7.69	9.98	13.55	19.91	-	-
20	2.37	3.59	4.38	5.36	6.61	8.29	10.67	14.31	-
30	1.71	2.66	3.25	3.93	4.76	5.78	7.09	8.83	15.01
40	-	1.93	2.37	2.87	3.46	4.15	4.98	6.02	9.11
50	-	-	1.66	2.02	2.44	2.93	3.50	4.18	6.03
60	-	-	-	-	1.65	1.99	2.39	2.86	4.07
65	-	-	-	-	-	-	1.95	2.34	3.35
68	-	-	-	-	-	-	-	2.09	-

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

Cooling capacity	43 714	W
Power input	13 595	W
Current consumption	24.57	A
Mass flow	1 001	kg/h
C.O.P.	3.22	

Pressure switch settings

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	78	dB(A)
With acoustic hood	72	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Datasheet, performance data

Danfoss scroll compressor. DSH184-4

Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K

R410A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-20	-15	-10	-5	0	5	10	20

Cooling capacity in W

10	18 693	28 659	35 075	42 604	51 365	61 476	73 056	-	-
20	16 827	26 285	32 303	39 338	47 506	56 926	67 715	79 992	-
30	14 866	23 627	29 152	35 596	43 074	51 704	61 603	72 887	100 082
40	-	20 769	25 705	31 460	38 150	45 890	54 796	64 982	89 661
50	-	-	22 024	26 988	32 785	39 527	47 327	56 300	78 214
60	-	-	-	-	26 911	32 518	39 067	46 666	65 458
65	-	-	-	-	-	-	34 405	41 211	58 183
68	-	-	-	-	-	-	-	37 503	-

Power input in W

10	6 203	6 250	6 185	6 043	5 808	5 467	5 004	-	-
20	7 607	7 813	7 852	7 829	7 728	7 537	7 239	6 821	-
30	9 205	9 531	9 654	9 729	9 743	9 681	9 528	9 271	8 383
40	-	11 563	11 748	11 902	12 010	12 058	12 030	11 914	11 354
50	-	-	14 294	14 507	14 689	14 826	14 904	14 908	14 636
60	-	-	-	-	17 938	18 145	18 307	18 412	18 387
65	-	-	-	-	-	-	20 257	20 405	20 489
68	-	-	-	-	-	-	-	21 689	-

Current consumption in A

10	13.64	13.80	13.78	13.68	13.51	13.26	12.92	-	-
20	15.02	15.26	15.29	15.26	15.15	14.97	14.70	14.34	-
30	16.66	17.02	17.12	17.15	17.12	17.02	16.84	16.57	15.78
40	-	19.25	19.42	19.54	19.60	19.59	19.51	19.35	18.78
50	-	-	22.38	22.59	22.75	22.85	22.88	22.83	22.52
60	-	-	-	-	26.75	26.96	27.12	27.21	27.16
65	-	-	-	-	-	-	29.62	29.78	29.88
68	-	-	-	-	-	-	-	31.45	-

Mass flow in kg/h

10	330	499	603	724	863	1 023	1 206	-	-
20	323	494	600	721	861	1 021	1 204	1 412	-
30	315	486	592	713	852	1 012	1 195	1 402	1 900
40	-	475	579	699	837	996	1 177	1 382	1 877
50	-	-	563	681	817	973	1 151	1 354	1 843
60	-	-	-	-	791	943	1 118	1 318	1 799
65	-	-	-	-	-	-	1 099	1 297	1 773
68	-	-	-	-	-	-	-	1 283	-

Coefficient of performance (C.O.P.)

10	3.01	4.59	5.67	7.05	8.84	11.25	14.60	-	-
20	2.21	3.36	4.11	5.02	6.15	7.55	9.35	11.73	-
30	1.62	2.48	3.02	3.66	4.42	5.34	6.47	7.86	11.94
40	-	1.80	2.19	2.64	3.18	3.81	4.55	5.45	7.90
50	-	-	1.54	1.86	2.23	2.67	3.18	3.78	5.34
60	-	-	-	-	1.50	1.79	2.13	2.53	3.56
65	-	-	-	-	-	-	1.70	2.02	2.84
68	-	-	-	-	-	-	-	1.73	-

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

Cooling capacity	47 327	W
Power input	14 904	W
Current consumption	22.88	A
Mass flow	1 151	kg/h
C.O.P.	3.18	

Pressure switch settings

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	81	dB(A)
With accoustic hood	75	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Datasheet, performance data

Danfoss scroll compressor. DSH184-4

Performance data at 60 Hz, ARI rating conditions SH=11.1K SC=8.3K

R410A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-20	-15	-10	-5	0	5	10	20

Cooling capacity in W

10	19 843	30 377	37 152	45 097	54 335	64 990	77 186	-	-
20	18 003	28 073	34 473	41 947	50 619	60 612	72 050	85 056	-
30	16 073	25 488	31 417	38 325	46 335	55 571	66 156	78 214	107 241
40	-	22 721	28 084	34 330	41 583	49 966	59 603	70 616	97 269
50	-	-	24 571	30 060	36 461	43 895	52 488	62 363	86 450
60	-	-	-	-	31 067	37 458	44 912	53 552	74 882
65	-	-	-	-	-	-	40 981	48 968	68 849
68	-	-	-	-	-	-	-	46 168	-

Power input in W

10	6 203	6 250	6 185	6 043	5 808	5 467	5 004	-	-
20	7 607	7 813	7 852	7 829	7 728	7 537	7 239	6 821	-
30	9 205	9 531	9 654	9 729	9 743	9 681	9 528	9 271	8 383
40	-	11 563	11 748	11 902	12 010	12 058	12 030	11 914	11 354
50	-	-	14 294	14 507	14 689	14 826	14 904	14 908	14 636
60	-	-	-	-	17 938	18 145	18 307	18 412	18 387
65	-	-	-	-	-	-	20 257	20 405	20 489
68	-	-	-	-	-	-	-	21 689	-

Current consumption in A

10	13.64	13.80	13.78	13.68	13.51	13.26	12.92	-	-
20	15.02	15.26	15.29	15.26	15.15	14.97	14.70	14.34	-
30	16.66	17.02	17.12	17.15	17.12	17.02	16.84	16.57	15.78
40	-	19.25	19.42	19.54	19.60	19.59	19.51	19.35	18.78
50	-	-	22.38	22.59	22.75	22.85	22.88	22.83	22.52
60	-	-	-	-	26.75	26.96	27.12	27.21	27.16
65	-	-	-	-	-	-	29.62	29.78	29.88
68	-	-	-	-	-	-	-	31.45	-

Mass flow in kg/h

10	328	496	600	719	858	1 016	1 197	-	-
20	322	491	596	717	856	1 015	1 196	1 402	-
30	313	483	588	708	847	1 005	1 186	1 392	1 885
40	-	472	576	695	832	989	1 169	1 372	1 862
50	-	-	559	677	811	966	1 143	1 344	1 828
60	-	-	-	-	786	937	1 111	1 308	1 784
65	-	-	-	-	-	-	1 092	1 287	1 759
68	-	-	-	-	-	-	-	1 274	-

Coefficient of performance (C.O.P.)

10	3.20	4.86	6.01	7.46	9.35	11.89	15.43	-	-
20	2.37	3.59	4.39	5.36	6.55	8.04	9.95	12.47	-
30	1.75	2.67	3.25	3.94	4.76	5.74	6.94	8.44	12.79
40	-	1.97	2.39	2.88	3.46	4.14	4.95	5.93	8.57
50	-	-	1.72	2.07	2.48	2.96	3.52	4.18	5.91
60	-	-	-	-	1.73	2.06	2.45	2.91	4.07
65	-	-	-	-	-	-	2.02	2.40	3.36
68	-	-	-	-	-	-	-	2.13	-

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

Cooling capacity	53 157	W
Power input	16 358	W
Current consumption	24.64	A
Mass flow	1 215	kg/h
C.O.P.	3.25	

Pressure switch settings

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	81	dB(A)
With accoustic hood	75	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Datasheet, performance data

Danfoss scroll compressor. DSH184-4

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

R452B

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-28	-20	-15	-10	-5	0	10	20	25

Cooling capacity in W

10	16 117	22 568	27 608	33 527	40 412	48 348	-	-	-
20	14 714	20 879	25 633	31 182	37 613	45 012	63 056	-	-
30	13 288	19 068	23 472	28 589	34 503	41 302	57 896	79 058	91 567
40	-	17 085	21 077	25 698	31 034	37 170	52 188	71 439	82 868
50	-	-	-	22 461	27 155	32 565	45 882	63 098	73 384
55	-	-	-	-	25 046	30 070	42 489	58 641	68 331
60	-	-	-	-	-	27 439	38 928	53 984	-
65	-	-	-	-	-	-	35 194	-	-

Power input in W

10	4 704	4 672	4 578	4 401	4 119	3 711	-	-	-
20	5 959	6 019	6 016	5 955	5 815	5 573	4 700	-	-
30	7 382	7 480	7 534	7 555	7 523	7 415	6 884	5 789	4 975
40	-	9 238	9 315	9 385	9 427	9 418	9 163	8 444	7 856
50	-	-	-	11 626	11 708	11 765	11 717	11 308	10 913
55	-	-	-	-	13 047	13 124	13 155	12 874	12 563
60	-	-	-	-	-	14 637	14 730	14 562	-
65	-	-	-	-	-	-	16 465	-	-

Current consumption in A

10	14.65	14.63	14.56	14.43	14.20	13.86	-	-	-
20	15.79	15.86	15.87	15.82	15.70	15.48	14.66	-	-
30	17.11	17.25	17.32	17.36	17.33	17.23	16.67	15.52	14.66
40	-	19.07	19.20	19.31	19.38	19.37	19.07	18.22	17.54
50	-	-	-	21.95	22.10	22.19	22.12	21.57	21.05
55	-	-	-	-	23.79	23.93	23.97	23.56	23.13
60	-	-	-	-	-	25.94	26.09	25.81	-
65	-	-	-	-	-	-	28.50	-	-

Mass flow in kg/h

10	241	335	406	488	583	691	-	-	-
20	238	333	404	486	581	689	952	-	-
30	234	329	399	481	575	682	942	1 272	1 467
40	-	322	392	472	565	670	926	1 252	1 444
50	-	-	-	460	550	654	905	1 225	1 413
55	-	-	-	-	542	644	892	1 209	1 396
60	-	-	-	-	-	633	878	1 191	-
65	-	-	-	-	-	-	863	-	-

Coefficient of performance (C.O.P.)

10	3.43	4.83	6.03	7.62	9.81	13.03	-	-	-
20	2.47	3.47	4.26	5.24	6.47	8.08	13.42	-	-
30	1.80	2.55	3.12	3.78	4.59	5.57	8.41	13.66	18.41
40	-	1.85	2.26	2.74	3.29	3.95	5.70	8.46	10.55
50	-	-	-	1.93	2.32	2.77	3.92	5.58	6.72
55	-	-	-	-	1.92	2.29	3.23	4.55	5.44
60	-	-	-	-	-	1.87	2.64	3.71	-
65	-	-	-	-	-	-	2.14	-	-

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

Cooling capacity	38 779	W
Power input	11 775	W
Current consumption	22.20	A
Mass flow	772	kg/h
C.O.P.	3.29	

Pressure switch settings

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	78	dB(A)
With accoustic hood	72	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Datasheet, performance data

Danfoss scroll compressor. DSH184-4

Performance data at 50 Hz, ARI rating conditions SH=11.1K SC=8.3K

R452B

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-28	-20	-15	-10	-5	0	10	20	25

Cooling capacity in W

10	17 002	23 785	29 082	35 299	42 526	50 852	-	-	-
20	15 616	22 137	27 160	33 020	39 807	47 611	66 627	-	-
30	14 213	20 370	25 056	30 496	36 780	43 999	61 602	84 026	97 270
40	-	18 438	22 726	27 684	33 404	39 978	56 050	76 630	88 838
50	-	-	-	24 557	29 657	35 532	49 972	68 618	79 750
55	-	-	-	-	27 655	33 164	46 764	64 428	75 019
60	-	-	-	-	-	30 736	43 497	60 195	-
65	-	-	-	-	-	-	40 282	-	-

Power input in W

10	4 704	4 672	4 578	4 401	4 119	3 711	-	-	-
20	5 959	6 019	6 016	5 955	5 815	5 573	4 700	-	-
30	7 382	7 480	7 534	7 555	7 523	7 415	6 884	5 789	4 975
40	-	9 238	9 315	9 385	9 427	9 418	9 163	8 444	7 856
50	-	-	-	11 626	11 708	11 765	11 717	11 308	10 913
55	-	-	-	-	13 047	13 124	13 155	12 874	12 563
60	-	-	-	-	-	14 637	14 730	14 562	-
65	-	-	-	-	-	-	16 465	-	-

Current consumption in A

10	14.65	14.63	14.56	14.43	14.20	13.86	-	-	-
20	15.79	15.86	15.87	15.82	15.70	15.48	14.66	-	-
30	17.11	17.25	17.32	17.36	17.33	17.23	16.67	15.52	14.66
40	-	19.07	19.20	19.31	19.38	19.37	19.07	18.22	17.54
50	-	-	-	21.95	22.10	22.19	22.12	21.57	21.05
55	-	-	-	-	23.79	23.93	23.97	23.56	23.13
60	-	-	-	-	-	25.94	26.09	25.81	-
65	-	-	-	-	-	-	28.50	-	-

Mass flow in kg/h

10	240	333	404	485	579	687	-	-	-
20	237	331	402	483	577	684	945	-	-
30	232	327	397	478	571	677	935	1 262	1 455
40	-	320	389	469	561	666	920	1 242	1 432
50	-	-	-	457	547	650	899	1 215	1 402
55	-	-	-	-	539	640	886	1 199	1 384
60	-	-	-	-	-	629	872	1 182	-
65	-	-	-	-	-	-	857	-	-

Coefficient of performance (C.O.P.)

10	3.61	5.09	6.35	8.02	10.32	13.70	-	-	-
20	2.62	3.68	4.51	5.55	6.85	8.54	14.18	-	-
30	1.93	2.72	3.33	4.04	4.89	5.93	8.95	14.51	19.55
40	-	2.00	2.44	2.95	3.54	4.24	6.12	9.08	11.31
50	-	-	-	2.11	2.53	3.02	4.26	6.07	7.31
55	-	-	-	-	2.12	2.53	3.55	5.00	5.97
60	-	-	-	-	-	2.10	2.95	4.13	-
65	-	-	-	-	-	-	2.45	-	-

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

Cooling capacity	42 938	W
Power input	12 994	W
Current consumption	23.77	A
Mass flow	812	kg/h
C.O.P.	3.30	

Pressure switch settings

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	78	dB(A)
With accoustic hood	72	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Datasheet, performance data

Danfoss scroll compressor. DSH184-4

Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-28	-20	-15	-10	-5	0	10	20	25

Cooling capacity in W

10	19 762	27 501	33 468	40 429	48 487	57 748	-	-	-
20	18 115	25 511	31 157	37 714	45 285	53 974	75 122	-	-
30	16 367	23 299	28 547	34 623	41 629	49 669	69 260	94 222	108 975
40	-	20 899	25 671	31 188	37 551	44 861	62 731	85 616	99 195
50	-	-	-	27 420	33 053	39 546	55 513	76 125	88 424
55	-	-	-	-	30 629	36 674	51 606	70 987	82 594
60	-	-	-	-	-	33 616	47 436	65 497	-
65	-	-	-	-	-	-	42 883	-	-

Power input in W

10	5 670	5 646	5 520	5 351	5 172	5 020	-	-	-
20	7 105	7 334	7 294	7 156	6 954	6 723	6 314	-	-
30	8 466	9 110	9 259	9 254	9 131	8 924	8 398	7 955	7 851
40	-	10 855	11 295	11 526	11 584	11 503	11 064	10 489	10 237
50	-	-	-	13 851	14 192	14 339	14 193	13 690	13 392
55	-	-	-	-	15 517	15 817	15 893	15 503	15 220
60	-	-	-	-	-	17 314	17 664	17 438	-
65	-	-	-	-	-	-	19 490	-	-

Current consumption in A

10	12.69	13.02	13.07	13.04	12.94	12.81	-	-	-
20	14.29	14.73	14.80	14.76	14.62	14.41	13.89	-	-
30	15.81	16.51	16.71	16.75	16.67	16.48	15.89	15.20	14.88
40	-	18.41	18.83	19.05	19.12	19.04	18.59	17.89	17.52
50	-	-	-	21.69	22.00	22.14	22.01	21.51	21.18
55	-	-	-	-	23.62	23.90	24.01	23.67	23.40
60	-	-	-	-	-	25.81	26.20	26.08	-
65	-	-	-	-	-	-	28.59	-	-

Mass flow in kg/h

10	297	408	492	588	699	825	-	-	-
20	293	406	491	588	699	826	1 134	-	-
30	288	401	486	583	694	821	1 127	1 517	1 746
40	-	394	478	574	684	810	1 114	1 500	1 728
50	-	-	-	562	670	794	1 094	1 476	1 701
55	-	-	-	-	662	784	1 082	1 461	1 684
60	-	-	-	-	-	774	1 068	1 444	-
65	-	-	-	-	-	-	1 053	-	-

Coefficient of performance (C.O.P.)

10	3.49	4.87	6.06	7.56	9.37	11.50	-	-	-
20	2.55	3.48	4.27	5.27	6.51	8.03	11.90	-	-
30	1.93	2.56	3.08	3.74	4.56	5.57	8.25	11.85	13.88
40	-	1.93	2.27	2.71	3.24	3.90	5.67	8.16	9.69
50	-	-	-	1.98	2.33	2.76	3.91	5.56	6.60
55	-	-	-	-	1.97	2.32	3.25	4.58	5.43
60	-	-	-	-	-	1.94	2.69	3.76	-
65	-	-	-	-	-	-	2.20	-	-

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

Cooling capacity	46 999	W
Power input	14 328	W
Current consumption	22.14	A
Mass flow	935	kg/h
C.O.P.	3.28	

Pressure switch settings

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	81	dB(A)
With accoustic hood	75	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Datasheet, performance data

Danfoss scroll compressor. DSH184-4

Performance data at 60 Hz, ARI rating conditions SH=11.1K SC=8.3K

R452B

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-28	-20	-15	-10	-5	0	10	20	25

Cooling capacity in W

10	20 847	28 985	35 255	42 565	51 024	60 740	-	-	-
20	19 226	27 048	33 013	39 937	47 927	57 091	79 376	-	-
30	17 506	24 889	30 473	36 933	44 376	52 912	73 694	100 143	115 763
40	-	22 553	27 679	33 598	40 419	48 250	67 374	91 837	106 340
50	-	-	-	29 979	36 100	43 148	60 462	82 785	96 095
55	-	-	-	-	33 819	40 448	56 798	77 993	90 678
60	-	-	-	-	-	37 654	53 003	73 032	-
65	-	-	-	-	-	-	49 083	-	-

Power input in W

10	5 670	5 646	5 520	5 351	5 172	5 020	-	-	-
20	7 105	7 334	7 294	7 156	6 954	6 723	6 314	-	-
30	8 466	9 110	9 259	9 254	9 131	8 924	8 398	7 955	7 851
40	-	10 855	11 295	11 526	11 584	11 503	11 064	10 489	10 237
50	-	-	-	13 851	14 192	14 339	14 193	13 690	13 392
55	-	-	-	-	15 517	15 817	15 893	15 503	15 220
60	-	-	-	-	-	17 314	17 664	17 438	-
65	-	-	-	-	-	-	19 490	-	-

Current consumption in A

10	12.69	13.02	13.07	13.04	12.94	12.81	-	-	-
20	14.29	14.73	14.80	14.76	14.62	14.41	13.89	-	-
30	15.81	16.51	16.71	16.75	16.67	16.48	15.89	15.20	14.88
40	-	18.41	18.83	19.05	19.12	19.04	18.59	17.89	17.52
50	-	-	-	21.69	22.00	22.14	22.01	21.51	21.18
55	-	-	-	-	23.62	23.90	24.01	23.67	23.40
60	-	-	-	-	-	25.81	26.20	26.08	-
65	-	-	-	-	-	-	28.59	-	-

Mass flow in kg/h

10	295	406	489	585	695	820	-	-	-
20	291	404	488	584	695	821	1 126	-	-
30	286	399	483	579	690	815	1 120	1 505	1 732
40	-	392	475	570	680	804	1 106	1 489	1 714
50	-	-	-	558	666	789	1 086	1 464	1 687
55	-	-	-	-	658	779	1 074	1 449	1 671
60	-	-	-	-	-	769	1 061	1 433	-
65	-	-	-	-	-	-	1 046	-	-

Coefficient of performance (C.O.P.)

10	3.68	5.13	6.39	7.96	9.86	12.10	-	-	-
20	2.71	3.69	4.53	5.58	6.89	8.49	12.57	-	-
30	2.07	2.73	3.29	3.99	4.86	5.93	8.78	12.59	14.74
40	-	2.08	2.45	2.92	3.49	4.19	6.09	8.76	10.39
50	-	-	-	2.16	2.54	3.01	4.26	6.05	7.18
55	-	-	-	-	2.18	2.56	3.57	5.03	5.96
60	-	-	-	-	-	2.17	3.00	4.19	-
65	-	-	-	-	-	-	2.52	-	-

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

Cooling capacity	52 181	W
Power input	15 729	W
Current consumption	23.79	A
Mass flow	986	kg/h
C.O.P.	3.32	

Pressure switch settings

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	81	dB(A)
With accoustic hood	75	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Datasheet, performance data

Danfoss scroll compressor. DSH184-4

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-28	-20	-15	-10	-5	0	10	20	25

Cooling capacity in W

10	15 819	21 990	26 813	32 476	39 063	46 656	-	-	-
20	14 406	20 354	24 937	30 282	36 473	43 592	60 943	-	-
30	13 005	18 610	22 877	27 829	33 549	40 120	56 139	76 545	88 599
40	-	16 747	20 623	25 107	30 280	36 226	50 764	69 378	80 419
50	-	-	-	22 104	26 656	31 902	44 808	61 479	71 431
55	-	-	-	-	24 707	29 575	41 609	57 251	66 631
60	-	-	-	-	-	27 137	38 260	52 836	-
65	-	-	-	-	-	-	34 760	-	-

Power input in W

10	4 646	4 554	4 453	4 283	4 014	3 616	-	-	-
20	5 893	5 883	5 871	5 820	5 700	5 481	4 629	-	-
30	7 324	7 331	7 369	7 397	7 386	7 306	6 822	5 707	4 840
40	-	9 088	9 136	9 204	9 263	9 282	9 087	8 380	7 761
50	-	-	-	11 431	11 519	11 599	11 612	11 235	10 825
55	-	-	-	-	12 850	12 944	13 032	12 789	12 469
60	-	-	-	-	-	14 446	14 589	14 460	-
65	-	-	-	-	-	-	16 306	-	-

Current consumption in A

10	14.52	14.50	14.42	14.28	14.05	13.70	-	-	-
20	15.46	15.55	15.57	15.53	15.42	15.21	14.41	-	-
30	16.69	16.88	16.98	17.04	17.04	16.95	16.44	15.33	14.49
40	-	18.72	18.88	19.02	19.11	19.13	18.87	18.07	17.42
50	-	-	-	21.68	21.85	21.96	21.93	21.42	20.93
55	-	-	-	-	23.54	23.69	23.76	23.38	22.97
60	-	-	-	-	-	25.66	25.83	25.58	-
65	-	-	-	-	-	-	28.17	-	-

Mass flow in kg/h

10	232	321	388	465	554	656	-	-	-
20	229	319	387	464	554	656	904	-	-
30	225	315	383	460	549	650	896	1 210	1 395
40	-	310	376	452	540	640	883	1 193	1 376
50	-	-	-	442	528	626	864	1 169	1 349
55	-	-	-	-	521	617	853	1 154	1 333
60	-	-	-	-	-	608	840	1 138	-
65	-	-	-	-	-	-	827	-	-

Coefficient of performance (C.O.P.)

10	3.41	4.83	6.02	7.58	9.73	12.90	-	-	-
20	2.44	3.46	4.25	5.20	6.40	7.95	13.17	-	-
30	1.78	2.54	3.10	3.76	4.54	5.49	8.23	13.41	18.31
40	-	1.84	2.26	2.73	3.27	3.90	5.59	8.28	10.36
50	-	-	-	1.93	2.31	2.75	3.86	5.47	6.60
55	-	-	-	-	1.92	2.28	3.19	4.48	5.34
60	-	-	-	-	-	1.88	2.62	3.65	-
65	-	-	-	-	-	-	2.13	-	-

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

Cooling capacity	37 926	W
Power input	11 640	W
Current consumption	21.99	A
Mass flow	737	kg/h
C.O.P.	3.26	

Pressure switch settings

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	78	dB(A)
With acoustic hood	72	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Datasheet, performance data

Danfoss scroll compressor. DSH184-4

Performance data at 50 Hz, ARI rating conditions SH=11.1K SC=8.3K

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-28	-20	-15	-10	-5	0	10	20

Cooling capacity in W

10	16 685	23 174	28 241	34 188	41 102	49 068	-	-	-
20	15 285	21 575	26 415	32 059	38 592	46 099	64 380	-	-
30	13 900	19 867	24 404	29 666	35 740	42 713	59 697	81 309	94 065
40	-	18 044	22 200	27 004	32 543	38 904	54 442	74 313	86 091
50	-	-	-	24 086	29 017	34 696	48 650	66 652	77 392
55	-	-	-	-	27 156	32 472	45 595	62 633	72 843
60	-	-	-	-	-	30 215	42 501	58 580	-
65	-	-	-	-	-	-	39 503	-	-

Power input in W

10	4 646	4 554	4 453	4 283	4 014	3 616	-	-	-
20	5 893	5 883	5 871	5 820	5 700	5 481	4 629	-	-
30	7 324	7 331	7 369	7 397	7 386	7 306	6 822	5 707	4 840
40	-	9 088	9 136	9 204	9 263	9 282	9 087	8 380	7 761
50	-	-	-	11 431	11 519	11 599	11 612	11 235	10 825
55	-	-	-	-	12 850	12 944	13 032	12 789	12 469
60	-	-	-	-	-	14 446	14 589	14 460	-
65	-	-	-	-	-	-	16 306	-	-

Current consumption in A

10	14.52	14.50	14.42	14.28	14.05	13.70	-	-	-
20	15.46	15.55	15.57	15.53	15.42	15.21	14.41	-	-
30	16.69	16.88	16.98	17.04	17.04	16.95	16.44	15.33	14.49
40	-	18.72	18.88	19.02	19.11	19.13	18.87	18.07	17.42
50	-	-	-	21.68	21.85	21.96	21.93	21.42	20.93
55	-	-	-	-	23.54	23.69	23.76	23.38	22.97
60	-	-	-	-	-	25.66	25.83	25.58	-
65	-	-	-	-	-	-	28.17	-	-

Mass flow in kg/h

10	230	319	386	462	550	652	-	-	-
20	227	317	384	462	550	651	897	-	-
30	223	313	380	457	545	646	890	1 201	1 384
40	-	308	374	450	537	636	877	1 184	1 365
50	-	-	-	440	525	622	858	1 160	1 338
55	-	-	-	-	518	613	847	1 145	1 322
60	-	-	-	-	-	604	835	1 129	-
65	-	-	-	-	-	-	821	-	-

Coefficient of performance (C.O.P.)

10	3.59	5.09	6.34	7.98	10.24	13.57	-	-	-
20	2.59	3.67	4.50	5.51	6.77	8.41	13.91	-	-
30	1.90	2.71	3.31	4.01	4.84	5.85	8.75	14.25	19.44
40	-	1.99	2.43	2.93	3.51	4.19	5.99	8.87	11.09
50	-	-	-	2.11	2.52	2.99	4.19	5.93	7.15
55	-	-	-	-	2.11	2.51	3.50	4.90	5.84
60	-	-	-	-	-	2.09	2.91	4.05	-
65	-	-	-	-	-	-	2.42	-	-

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

Cooling capacity	41 897	W
Power input	12 857	W
Current consumption	23.55	A
Mass flow	777	kg/h
C.O.P.	3.26	

Pressure switch settings

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	78	dB(A)
With accoustic hood	72	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Datasheet, performance data

Danfoss scroll compressor. DSH184-4

Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-28	-20	-15	-10	-5	0	10	20	25

Cooling capacity in W

10	19 225	26 781	32 630	39 470	47 407	56 546	-	-	-
20	17 560	24 766	30 286	36 714	44 154	52 710	73 589	-	-
30	15 849	22 602	27 731	33 682	40 560	48 468	67 789	92 480	107 098
40	-	20 322	24 994	30 404	36 654	43 848	61 477	84 116	97 573
50	-	-	-	26 886	32 437	38 844	54 630	75 056	87 263
55	-	-	-	-	30 190	36 171	50 962	70 200	81 737
60	-	-	-	-	-	33 331	47 058	65 023	-
65	-	-	-	-	-	-	42 773	-	-

Power input in W

10	5 581	5 522	5 370	5 186	5 015	4 905	-	-	-
20	7 015	7 209	7 126	6 943	6 707	6 464	6 144	-	-
30	8 342	8 985	9 095	9 037	8 858	8 605	8 061	7 781	7 856
40	-	10 689	11 116	11 306	11 308	11 167	10 646	10 117	9 967
50	-	-	-	13 588	13 894	13 989	13 737	13 206	12 954
55	-	-	-	-	15 187	15 447	15 422	14 983	14 725
60	-	-	-	-	-	16 910	17 173	16 887	-
65	-	-	-	-	-	-	18 970	-	-

Current consumption in A

10	12.63	12.89	12.90	12.81	12.66	12.47	-	-	-
20	14.06	14.43	14.46	14.38	14.19	13.94	13.33	-	-
30	15.58	16.18	16.33	16.32	16.19	15.96	15.31	14.58	14.25
40	-	18.14	18.47	18.63	18.64	18.52	17.99	17.28	16.91
50	-	-	-	21.30	21.53	21.60	21.37	20.83	20.51
55	-	-	-	-	23.14	23.33	23.31	22.92	22.65
60	-	-	-	-	-	25.19	25.42	25.23	-
65	-	-	-	-	-	-	27.71	-	-

Mass flow in kg/h

10	283	391	472	565	672	795	-	-	-
20	278	388	469	563	670	793	1 091	-	-
30	273	383	464	557	664	786	1 084	1 463	1 687
40	-	376	456	549	655	776	1 071	1 447	1 669
50	-	-	-	538	643	762	1 053	1 425	1 645
55	-	-	-	-	636	754	1 043	1 412	1 631
60	-	-	-	-	-	745	1 031	1 397	-
65	-	-	-	-	-	-	1 019	-	-

Coefficient of performance (C.O.P.)

10	3.45	4.85	6.08	7.61	9.45	11.53	-	-	-
20	2.50	3.44	4.25	5.29	6.58	8.15	11.98	-	-
30	1.90	2.52	3.05	3.73	4.58	5.63	8.41	11.89	13.63
40	-	1.90	2.25	2.69	3.24	3.93	5.77	8.31	9.79
50	-	-	-	1.98	2.33	2.78	3.98	5.68	6.74
55	-	-	-	-	1.99	2.34	3.30	4.69	5.55
60	-	-	-	-	-	1.97	2.74	3.85	-
65	-	-	-	-	-	-	2.25	-	-

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

Cooling capacity	46 208	W
Power input	13 921	W
Current consumption	21.53	A
Mass flow	898	kg/h
C.O.P.	3.32	

Pressure switch settings

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	81	dB(A)
With accoustic hood	75	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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Datasheet, performance data

Danfoss scroll compressor. DSH184-4

Performance data at 60 Hz, ARI rating conditions SH=11.1K SC=8.3K

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Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-28	-20	-15	-10	-5	0	10	20

Cooling capacity in W

10	20 278	28 222	34 367	41 551	49 882	59 469	-	-	-
20	18 632	26 250	32 082	38 869	46 718	55 741	77 739	-	-
30	16 940	24 128	29 582	35 906	43 209	51 600	72 086	98 235	113 706
40	-	21 895	26 905	32 702	39 393	47 089	65 931	90 100	104 455
50	-	-	-	29 297	35 311	42 246	59 313	81 372	94 545
55	-	-	-	-	33 183	39 713	55 844	76 798	89 357
60	-	-	-	-	-	37 112	52 274	72 092	-
65	-	-	-	-	-	-	48 609	-	-

Power input in W

10	5 581	5 522	5 370	5 186	5 015	4 905	-	-	-
20	7 015	7 209	7 126	6 943	6 707	6 464	6 144	-	-
30	8 342	8 985	9 095	9 037	8 858	8 605	8 061	7 781	7 856
40	-	10 689	11 116	11 306	11 308	11 167	10 646	10 117	9 967
50	-	-	-	13 588	13 894	13 989	13 737	13 206	12 954
55	-	-	-	-	15 187	15 447	15 422	14 983	14 725
60	-	-	-	-	-	16 910	17 173	16 887	-
65	-	-	-	-	-	-	18 970	-	-

Current consumption in A

10	12.63	12.89	12.90	12.81	12.66	12.47	-	-	-
20	14.06	14.43	14.46	14.38	14.19	13.94	13.33	-	-
30	15.58	16.18	16.33	16.32	16.19	15.96	15.31	14.58	14.25
40	-	18.14	18.47	18.63	18.64	18.52	17.99	17.28	16.91
50	-	-	-	21.30	21.53	21.60	21.37	20.83	20.51
55	-	-	-	-	23.14	23.33	23.31	22.92	22.65
60	-	-	-	-	-	25.19	25.42	25.23	-
65	-	-	-	-	-	-	27.71	-	-

Mass flow in kg/h

10	281	389	469	562	668	790	-	-	-
20	277	385	466	559	666	788	1 084	-	-
30	272	380	461	554	660	781	1 076	1 451	1 673
40	-	374	454	545	651	771	1 063	1 436	1 656
50	-	-	-	535	639	757	1 046	1 414	1 632
55	-	-	-	-	632	749	1 035	1 401	1 618
60	-	-	-	-	-	741	1 024	1 387	-
65	-	-	-	-	-	-	1 012	-	-

Coefficient of performance (C.O.P.)

10	3.63	5.11	6.40	8.01	9.95	12.12	-	-	-
20	2.66	3.64	4.50	5.60	6.97	8.62	12.65	-	-
30	2.03	2.69	3.25	3.97	4.88	6.00	8.94	12.63	14.47
40	-	2.05	2.42	2.89	3.48	4.22	6.19	8.91	10.48
50	-	-	-	2.16	2.54	3.02	4.32	6.16	7.30
55	-	-	-	-	2.18	2.57	3.62	5.13	6.07
60	-	-	-	-	-	2.19	3.04	4.27	-
65	-	-	-	-	-	-	2.56	-	-

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

Cooling capacity	51 267	W
Power input	15 287	W
Current consumption	23.13	A
Mass flow	949	kg/h
C.O.P.	3.35	

Pressure switch settings

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	81	dB(A)
With accoustic hood	75	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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