

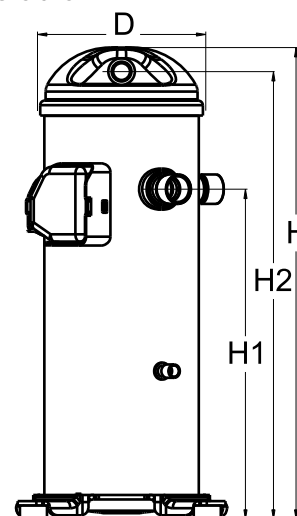
Datasheets

Danfoss scroll compressors **H series**



General Characteristics

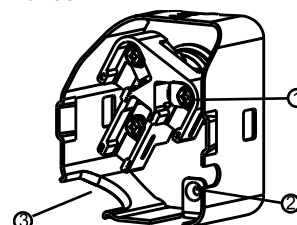
Model number (on compressor nameplate)		HCP094T4LC6
Code number for Singlepack*		120U0601
Code number for Industrial pack**		120U0598
Drawing number		0SR4103B-3
Suction and discharge connections		Brazed
Suction connection		1-1/8" ODF
Discharge connection		7/8" ODF
Oil sight glass		None
Oil equalisation connection		1/2"
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		126.02 cm ³ /rev
Displacement @ Nominal speed		21.9 m ³ /h @ 2900 rpm - 26.5 m ³ /h @ 3500 rpm
Net weight		44 kg
Oil charge		2.66 litre, PVE --
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		-
Refrigerant charge limit		7.26 kg
Approved refrigerants		R407C

Dimensions


D=184 mm
H=536 mm
H1=369 mm
H2=509 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 1-2 +/- 7% at 25°C	1.480 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.480 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.480 Ω
Rated Load Amps (RLA)	13.5 A
Maximum Continuous Current (MCC)	21 A
Locked Rotor Amps (LRA)	84 A
Motor protection	Internal overload protector

Terminal box


IP22

- 1: Screw connectors 10-32 UNF x 9.5
- 2: Earth connection
- 3: Power cable passage

Recommended Installation torques

Oil sight glass	52.5 Nm
Power connections / Earth connection	3 Nm / 2 Nm

Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA11565), -

*Singlepack: Compressor in cardboard box

**Industrial pack: 12 or 16 Unboxed compressors on pallet

Rotolock accessories, suction side
Code no.

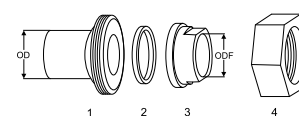
Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side
Code no.

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-3/4"	8156132

Rotolock accessories, sets
Code no.

Solder sleeve adapter set (1-3/4" Rotolock, 1-1/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

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.

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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Crankcase heaters
Code no.

Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040

Miscellaneous accessories
Code no.

Acoustic hood	120Z5045
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

Spare parts
Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Mounting kit, including 1 bolt, 1 sleeve, 1 washer	120Z5031
Terminal box cover	120Z5018

Performance data at 50 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	6 498	8 338	10 575	13 253	16 415	20 104	24 364	29 237
35	-	6 118	7 865	9 990	12 536	15 547	19 065	23 134	27 797
40	-	5 720	7 373	9 386	11 801	14 660	18 008	21 886	26 339
45	-	-	6 849	8 750	11 033	13 741	16 917	20 604	24 845
50	-	-	-	8 067	10 218	12 774	15 778	19 273	23 301
55	-	-	-	-	9 343	11 746	14 577	17 878	21 692
60	-	-	-	-	-	10 642	13 297	16 403	20 000
65	-	-	-	-	-	-	11 926	14 832	18 208

Power input in W

30	-	4 133	4 114	4 100	4 082	4 052	4 002	3 924	3 808
35	-	4 612	4 586	4 567	4 546	4 517	4 469	4 395	4 287
40	-	5 121	5 088	5 065	5 044	5 015	4 972	4 904	4 804
45	-	-	5 630	5 605	5 584	5 558	5 519	5 459	5 369
50	-	-	-	6 194	6 174	6 152	6 120	6 069	5 990
55	-	-	-	-	6 825	6 808	6 783	6 742	6 676
60	-	-	-	-	-	7 534	7 518	7 488	7 436
65	-	-	-	-	-	-	8 333	8 316	8 279

Current consumption in A

30	-	8.77	8.76	8.77	8.79	8.80	8.81	8.81	8.77
35	-	9.37	9.35	9.35	9.36	9.37	9.38	9.37	9.34
40	-	10.08	10.06	10.05	10.05	10.05	10.05	10.04	10.01
45	-	-	10.87	10.85	10.84	10.84	10.83	10.82	10.79
50	-	-	-	11.76	11.74	11.73	11.71	11.70	11.66
55	-	-	-	-	12.74	12.71	12.69	12.67	12.63
60	-	-	-	-	-	13.80	13.77	13.73	13.68
65	-	-	-	-	-	-	14.93	14.88	14.83

Mass flow in kg/h

30	-	145	183	229	282	343	414	494	585
35	-	144	182	227	279	341	411	491	581
40	-	143	180	224	277	338	408	487	577
45	-	-	177	221	273	334	404	483	573
50	-	-	-	216	268	329	399	478	568
55	-	-	-	-	262	322	392	472	561
60	-	-	-	-	-	314	383	463	553
65	-	-	-	-	-	-	372	452	542

Coefficient of performance (C.O.P.)

30	-	1.57	2.03	2.58	3.25	4.05	5.02	6.21	7.68
35	-	1.33	1.71	2.19	2.76	3.44	4.27	5.26	6.48
40	-	1.12	1.45	1.85	2.34	2.92	3.62	4.46	5.48
45	-	-	1.22	1.56	1.98	2.47	3.07	3.77	4.63
50	-	-	-	1.30	1.65	2.08	2.58	3.18	3.89
55	-	-	-	-	1.37	1.73	2.15	2.65	3.25
60	-	-	-	-	-	1.41	1.77	2.19	2.69
65	-	-	-	-	-	-	1.43	1.78	2.20

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

Cooling capacity	19 273	W
Power input	6 069	W
Current consumption	11.70	A
Mass flow	478	kg/h
C.O.P.	3.18	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	69	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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Performance data at 50 Hz, ARI rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	6 978	8 943	11 329	14 182	17 547	21 468	25 991	31 160
35	-	6 603	8 476	10 753	13 477	16 694	20 448	24 786	29 751
40	-	6 209	7 991	10 158	12 754	15 823	19 412	23 564	28 325
45	-	-	7 472	9 530	11 997	14 920	18 343	22 311	26 868
50	-	-	-	8 853	11 193	13 969	17 227	21 010	25 365
55	-	-	-	-	10 325	12 955	16 048	19 648	23 800
60	-	-	-	-	-	11 862	14 790	18 207	22 157
65	-	-	-	-	-	-	13 439	16 673	20 421

Power input in W

30	-	4 133	4 114	4 100	4 082	4 052	4 002	3 924	3 808
35	-	4 612	4 586	4 567	4 546	4 517	4 469	4 395	4 287
40	-	5 121	5 088	5 065	5 044	5 015	4 972	4 904	4 804
45	-	-	5 630	5 605	5 584	5 558	5 519	5 459	5 369
50	-	-	-	6 194	6 174	6 152	6 120	6 069	5 990
55	-	-	-	-	6 825	6 808	6 783	6 742	6 676
60	-	-	-	-	-	7 534	7 518	7 488	7 436
65	-	-	-	-	-	-	8 333	8 316	8 279

Current consumption in A

30	-	8.77	8.76	8.77	8.79	8.80	8.81	8.81	8.77
35	-	9.37	9.35	9.35	9.36	9.37	9.38	9.37	9.34
40	-	10.08	10.06	10.05	10.05	10.05	10.05	10.04	10.01
45	-	-	10.87	10.85	10.84	10.84	10.83	10.82	10.79
50	-	-	-	11.76	11.74	11.73	11.71	11.70	11.66
55	-	-	-	-	12.74	12.71	12.69	12.67	12.63
60	-	-	-	-	-	13.80	13.77	13.73	13.68
65	-	-	-	-	-	-	14.93	14.88	14.83

Mass flow in kg/h

30	-	145	183	228	280	341	412	491	581
35	-	144	181	226	278	339	409	488	578
40	-	142	179	223	275	336	405	485	574
45	-	-	176	220	272	332	401	480	570
50	-	-	-	215	267	327	396	475	565
55	-	-	-	-	261	321	390	469	558
60	-	-	-	-	-	312	381	460	550
65	-	-	-	-	-	-	370	449	539

Coefficient of performance (C.O.P.)

30	-	1.69	2.17	2.76	3.47	4.33	5.36	6.62	8.18
35	-	1.43	1.85	2.35	2.96	3.70	4.58	5.64	6.94
40	-	1.21	1.57	2.01	2.53	3.15	3.90	4.81	5.90
45	-	-	1.33	1.70	2.15	2.68	3.32	4.09	5.00
50	-	-	-	1.43	1.81	2.27	2.81	3.46	4.23
55	-	-	-	-	1.51	1.90	2.37	2.91	3.57
60	-	-	-	-	-	1.57	1.97	2.43	2.98
65	-	-	-	-	-	-	1.61	2.00	2.47

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

Cooling capacity	21 582	W
Power input	6 631	W
Current consumption	12.53	A
Mass flow	508	kg/h
C.O.P.	3.25	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	69	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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Performance data at 50 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	6 498	8 338	10 575	13 253	16 415	20 104	24 364	29 237
35	-	6 118	7 865	9 990	12 536	15 547	19 065	23 134	27 797
40	-	5 720	7 373	9 386	11 801	14 660	18 008	21 886	26 339
45	-	-	6 849	8 750	11 033	13 741	16 917	20 604	24 845
50	-	-	-	8 067	10 218	12 774	15 778	19 273	23 301
55	-	-	-	-	9 343	11 746	14 577	17 878	21 692
60	-	-	-	-	-	10 642	13 297	16 403	20 000
65	-	-	-	-	-	-	11 926	14 832	18 208

Power input in W

30	-	4 133	4 114	4 100	4 082	4 052	4 002	3 924	3 808
35	-	4 612	4 586	4 567	4 546	4 517	4 469	4 395	4 287
40	-	5 121	5 088	5 065	5 044	5 015	4 972	4 904	4 804
45	-	-	5 630	5 605	5 584	5 558	5 519	5 459	5 369
50	-	-	-	6 194	6 174	6 152	6 120	6 069	5 990
55	-	-	-	-	6 825	6 808	6 783	6 742	6 676
60	-	-	-	-	-	7 534	7 518	7 488	7 436
65	-	-	-	-	-	-	8 333	8 316	8 279

Current consumption in A

30	-	8.77	8.76	8.77	8.79	8.80	8.81	8.81	8.77
35	-	9.37	9.35	9.35	9.36	9.37	9.38	9.37	9.34
40	-	10.08	10.06	10.05	10.05	10.05	10.05	10.04	10.01
45	-	-	10.87	10.85	10.84	10.84	10.83	10.82	10.79
50	-	-	-	11.76	11.74	11.73	11.71	11.70	11.66
55	-	-	-	-	12.74	12.71	12.69	12.67	12.63
60	-	-	-	-	-	13.80	13.77	13.73	13.68
65	-	-	-	-	-	-	14.93	14.88	14.83

Mass flow in kg/h

30	-	145	183	229	282	343	414	494	585
35	-	144	182	227	279	341	411	491	581
40	-	143	180	224	277	338	408	487	577
45	-	-	177	221	273	334	404	483	573
50	-	-	-	216	268	329	399	478	568
55	-	-	-	-	262	322	392	472	561
60	-	-	-	-	-	314	383	463	553
65	-	-	-	-	-	-	372	452	542

Coefficient of performance (C.O.P.)

30	-	1.57	2.03	2.58	3.25	4.05	5.02	6.21	7.68
35	-	1.33	1.71	2.19	2.76	3.44	4.27	5.26	6.48
40	-	1.12	1.45	1.85	2.34	2.92	3.62	4.46	5.48
45	-	-	1.22	1.56	1.98	2.47	3.07	3.77	4.63
50	-	-	-	1.30	1.65	2.08	2.58	3.18	3.89
55	-	-	-	-	1.37	1.73	2.15	2.65	3.25
60	-	-	-	-	-	1.41	1.77	2.19	2.69
65	-	-	-	-	-	-	1.43	1.78	2.20

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

Cooling capacity	19 273	W
Power input	6 069	W
Current consumption	11.70	A
Mass flow	478	kg/h
C.O.P.	3.18	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	69	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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Performance data at 50 Hz, ARI rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	6 978	8 943	11 329	14 182	17 547	21 468	25 991	31 160
35	-	6 603	8 476	10 753	13 477	16 694	20 448	24 786	29 751
40	-	6 209	7 991	10 158	12 754	15 823	19 412	23 564	28 325
45	-	-	7 472	9 530	11 997	14 920	18 343	22 311	26 868
50	-	-	-	8 853	11 193	13 969	17 227	21 010	25 365
55	-	-	-	-	10 325	12 955	16 048	19 648	23 800
60	-	-	-	-	-	11 862	14 790	18 207	22 157
65	-	-	-	-	-	-	13 439	16 673	20 421

Power input in W

30	-	4 133	4 114	4 100	4 082	4 052	4 002	3 924	3 808
35	-	4 612	4 586	4 567	4 546	4 517	4 469	4 395	4 287
40	-	5 121	5 088	5 065	5 044	5 015	4 972	4 904	4 804
45	-	-	5 630	5 605	5 584	5 558	5 519	5 459	5 369
50	-	-	-	6 194	6 174	6 152	6 120	6 069	5 990
55	-	-	-	-	6 825	6 808	6 783	6 742	6 676
60	-	-	-	-	-	7 534	7 518	7 488	7 436
65	-	-	-	-	-	-	8 333	8 316	8 279

Current consumption in A

30	-	8.77	8.76	8.77	8.79	8.80	8.81	8.81	8.77
35	-	9.37	9.35	9.35	9.36	9.37	9.38	9.37	9.34
40	-	10.08	10.06	10.05	10.05	10.05	10.05	10.04	10.01
45	-	-	10.87	10.85	10.84	10.84	10.83	10.82	10.79
50	-	-	-	11.76	11.74	11.73	11.71	11.70	11.66
55	-	-	-	-	12.74	12.71	12.69	12.67	12.63
60	-	-	-	-	-	13.80	13.77	13.73	13.68
65	-	-	-	-	-	-	14.93	14.88	14.83

Mass flow in kg/h

30	-	145	183	228	280	341	412	491	581
35	-	144	181	226	278	339	409	488	578
40	-	142	179	223	275	336	405	485	574
45	-	-	176	220	272	332	401	480	570
50	-	-	-	215	267	327	396	475	565
55	-	-	-	-	261	321	390	469	558
60	-	-	-	-	-	312	381	460	550
65	-	-	-	-	-	-	370	449	539

Coefficient of performance (C.O.P.)

30	-	1.69	2.17	2.76	3.47	4.33	5.36	6.62	8.18
35	-	1.43	1.85	2.35	2.96	3.70	4.58	5.64	6.94
40	-	1.21	1.57	2.01	2.53	3.15	3.90	4.81	5.90
45	-	-	1.33	1.70	2.15	2.68	3.32	4.09	5.00
50	-	-	-	1.43	1.81	2.27	2.81	3.46	4.23
55	-	-	-	-	1.51	1.90	2.37	2.91	3.57
60	-	-	-	-	-	1.57	1.97	2.43	2.98
65	-	-	-	-	-	-	1.61	2.00	2.47

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

Cooling capacity	21 582	W
Power input	6 631	W
Current consumption	12.53	A
Mass flow	508	kg/h
C.O.P.	3.25	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	69	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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Performance data at 60 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	8 031	10 309	13 120	16 432	20 210	24 422	29 031	34 006
35	-	7 619	9 637	12 240	15 394	19 066	23 222	27 830	32 855
40	-	7 366	9 071	11 408	14 347	17 855	21 898	26 444	31 459
45	-	-	8 628	10 646	13 314	16 601	20 472	24 897	29 842
50	-	-	-	9 973	12 315	15 324	18 966	23 212	28 026
55	-	-	-	-	11 370	14 045	17 402	21 409	26 034
60	-	-	-	-	-	12 785	15 800	19 510	23 886
65	-	-	-	-	-	-	14 177	17 534	21 600

Power input in W

30	-	4 453	4 563	4 635	4 686	4 733	4 794	4 886	5 027
35	-	4 909	5 050	5 140	5 196	5 236	5 276	5 336	5 431
40	-	5 386	5 566	5 683	5 752	5 793	5 822	5 856	5 914
45	-	-	6 126	6 277	6 369	6 419	6 444	6 463	6 491
50	-	-	-	6 939	7 062	7 130	7 160	7 171	7 179
55	-	-	-	-	7 846	7 940	7 985	7 996	7 993
60	-	-	-	-	-	8 866	8 933	8 954	8 947
65	-	-	-	-	-	-	10 020	10 059	10 057

Current consumption in A

30	-	9.29	9.36	9.43	9.49	9.56	9.61	9.66	9.70
35	-	9.87	9.91	9.96	10.01	10.07	10.12	10.16	10.20
40	-	10.50	10.52	10.55	10.59	10.63	10.68	10.72	10.76
45	-	-	11.22	11.24	11.26	11.30	11.34	11.38	11.43
50	-	-	-	12.06	12.08	12.11	12.15	12.20	12.25
55	-	-	-	-	13.08	13.11	13.15	13.20	13.26
60	-	-	-	-	-	14.34	14.38	14.44	14.50
65	-	-	-	-	-	-	15.89	15.96	16.03

Mass flow in kg/h

30	-	182	228	283	347	422	507	604	713
35	-	180	226	280	343	417	502	598	706
40	-	176	221	275	339	412	496	591	699
45	-	-	215	269	332	405	489	584	692
50	-	-	-	260	323	396	480	575	683
55	-	-	-	-	312	385	469	565	672
60	-	-	-	-	-	371	455	551	659
65	-	-	-	-	-	-	438	535	644

Coefficient of performance (C.O.P.)

30	-	1.80	2.26	2.83	3.51	4.27	5.09	5.94	6.76
35	-	1.55	1.91	2.38	2.96	3.64	4.40	5.22	6.05
40	-	1.37	1.63	2.01	2.49	3.08	3.76	4.52	5.32
45	-	-	1.41	1.70	2.09	2.59	3.18	3.85	4.60
50	-	-	-	1.44	1.74	2.15	2.65	3.24	3.90
55	-	-	-	-	1.45	1.77	2.18	2.68	3.26
60	-	-	-	-	-	1.44	1.77	2.18	2.67
65	-	-	-	-	-	-	1.41	1.74	2.15

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

Cooling capacity	23 212	W
Power input	7 171	W
Current consumption	12.20	A
Mass flow	575	kg/h
C.O.P.	3.24	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	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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Performance data at 60 Hz, ARI rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	8 624	11 056	14 055	17 584	21 604	26 079	30 971	36 243
35	-	8 222	10 387	13 175	16 549	20 472	24 907	29 816	35 163
40	-	7 996	9 831	12 347	15 506	19 271	23 606	28 472	33 832
45	-	-	9 412	11 595	14 479	18 025	22 198	26 960	32 273
50	-	-	-	10 944	13 491	16 758	20 708	25 304	30 509
55	-	-	-	-	12 565	15 492	19 159	23 528	28 564
60	-	-	-	-	-	14 251	17 574	21 656	26 462
65	-	-	-	-	-	-	15 977	19 711	24 225

Power input in W

30	-	4 453	4 563	4 635	4 686	4 733	4 794	4 886	5 027
35	-	4 909	5 050	5 140	5 196	5 236	5 276	5 336	5 431
40	-	5 386	5 566	5 683	5 752	5 793	5 822	5 856	5 914
45	-	-	6 126	6 277	6 369	6 419	6 444	6 463	6 491
50	-	-	-	6 939	7 062	7 130	7 160	7 171	7 179
55	-	-	-	-	7 846	7 940	7 985	7 996	7 993
60	-	-	-	-	-	8 866	8 933	8 954	8 947
65	-	-	-	-	-	-	10 020	10 059	10 057

Current consumption in A

30	-	9.29	9.36	9.43	9.49	9.56	9.61	9.66	9.70
35	-	9.87	9.91	9.96	10.01	10.07	10.12	10.16	10.20
40	-	10.50	10.52	10.55	10.59	10.63	10.68	10.72	10.76
45	-	-	11.22	11.24	11.26	11.30	11.34	11.38	11.43
50	-	-	-	12.06	12.08	12.11	12.15	12.20	12.25
55	-	-	-	-	13.08	13.11	13.15	13.20	13.26
60	-	-	-	-	-	14.34	14.38	14.44	14.50
65	-	-	-	-	-	-	15.89	15.96	16.03

Mass flow in kg/h

30	-	181	227	282	345	419	504	600	709
35	-	179	224	278	342	415	499	594	702
40	-	175	220	274	337	410	493	588	695
45	-	-	214	268	330	403	486	581	688
50	-	-	-	259	322	394	477	572	679
55	-	-	-	-	310	383	467	561	668
60	-	-	-	-	-	369	453	548	655
65	-	-	-	-	-	-	436	532	640

Coefficient of performance (C.O.P.)

30	-	1.94	2.42	3.03	3.75	4.56	5.44	6.34	7.21
35	-	1.67	2.06	2.56	3.18	3.91	4.72	5.59	6.47
40	-	1.48	1.77	2.17	2.70	3.33	4.05	4.86	5.72
45	-	-	1.54	1.85	2.27	2.81	3.44	4.17	4.97
50	-	-	-	1.58	1.91	2.35	2.89	3.53	4.25
55	-	-	-	-	1.60	1.95	2.40	2.94	3.57
60	-	-	-	-	-	1.61	1.97	2.42	2.96
65	-	-	-	-	-	-	1.59	1.96	2.41

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

Cooling capacity	25 894	W
Power input	7 890	W
Current consumption	13.09	A
Mass flow	608	kg/h
C.O.P.	3.28	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	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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Performance data at 60 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	8 031	10 309	13 120	16 432	20 210	24 422	29 031	34 006
35	-	7 619	9 637	12 240	15 394	19 066	23 222	27 830	32 855
40	-	7 366	9 071	11 408	14 347	17 855	21 898	26 444	31 459
45	-	-	8 628	10 646	13 314	16 601	20 472	24 897	29 842
50	-	-	-	9 973	12 315	15 324	18 966	23 212	28 026
55	-	-	-	-	11 370	14 045	17 402	21 409	26 034
60	-	-	-	-	-	12 785	15 800	19 510	23 886
65	-	-	-	-	-	-	14 177	17 534	21 600

Power input in W

30	-	4 453	4 563	4 635	4 686	4 733	4 794	4 886	5 027
35	-	4 909	5 050	5 140	5 196	5 236	5 276	5 336	5 431
40	-	5 386	5 566	5 683	5 752	5 793	5 822	5 856	5 914
45	-	-	6 126	6 277	6 369	6 419	6 444	6 463	6 491
50	-	-	-	6 939	7 062	7 130	7 160	7 171	7 179
55	-	-	-	-	7 846	7 940	7 985	7 996	7 993
60	-	-	-	-	-	8 866	8 933	8 954	8 947
65	-	-	-	-	-	-	10 020	10 059	10 057

Current consumption in A

30	-	9.29	9.36	9.43	9.49	9.56	9.61	9.66	9.70
35	-	9.87	9.91	9.96	10.01	10.07	10.12	10.16	10.20
40	-	10.50	10.52	10.55	10.59	10.63	10.68	10.72	10.76
45	-	-	11.22	11.24	11.26	11.30	11.34	11.38	11.43
50	-	-	-	12.06	12.08	12.11	12.15	12.20	12.25
55	-	-	-	-	13.08	13.11	13.15	13.20	13.26
60	-	-	-	-	-	14.34	14.38	14.44	14.50
65	-	-	-	-	-	-	15.89	15.96	16.03

Mass flow in kg/h

30	-	182	228	283	347	422	507	604	713
35	-	180	226	280	343	417	502	598	706
40	-	176	221	275	339	412	496	591	699
45	-	-	215	269	332	405	489	584	692
50	-	-	-	260	323	396	480	575	683
55	-	-	-	-	312	385	469	565	672
60	-	-	-	-	-	371	455	551	659
65	-	-	-	-	-	-	438	535	644

Coefficient of performance (C.O.P.)

30	-	1.80	2.26	2.83	3.51	4.27	5.09	5.94	6.76
35	-	1.55	1.91	2.38	2.96	3.64	4.40	5.22	6.05
40	-	1.37	1.63	2.01	2.49	3.08	3.76	4.52	5.32
45	-	-	1.41	1.70	2.09	2.59	3.18	3.85	4.60
50	-	-	-	1.44	1.74	2.15	2.65	3.24	3.90
55	-	-	-	-	1.45	1.77	2.18	2.68	3.26
60	-	-	-	-	-	1.44	1.77	2.18	2.67
65	-	-	-	-	-	-	1.41	1.74	2.15

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

Cooling capacity	23 212	W
Power input	7 171	W
Current consumption	12.20	A
Mass flow	575	kg/h
C.O.P.	3.24	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	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. HCP094T4

Performance data at 60 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	8 624	11 056	14 055	17 584	21 604	26 079	30 971	36 243
35	-	8 222	10 387	13 175	16 549	20 472	24 907	29 816	35 163
40	-	7 996	9 831	12 347	15 506	19 271	23 606	28 472	33 832
45	-	-	9 412	11 595	14 479	18 025	22 198	26 960	32 273
50	-	-	-	10 944	13 491	16 758	20 708	25 304	30 509
55	-	-	-	-	12 565	15 492	19 159	23 528	28 564
60	-	-	-	-	-	14 251	17 574	21 656	26 462
65	-	-	-	-	-	-	15 977	19 711	24 225

Power input in W

30	-	4 453	4 563	4 635	4 686	4 733	4 794	4 886	5 027
35	-	4 909	5 050	5 140	5 196	5 236	5 276	5 336	5 431
40	-	5 386	5 566	5 683	5 752	5 793	5 822	5 856	5 914
45	-	-	6 126	6 277	6 369	6 419	6 444	6 463	6 491
50	-	-	-	6 939	7 062	7 130	7 160	7 171	7 179
55	-	-	-	-	7 846	7 940	7 985	7 996	7 993
60	-	-	-	-	-	8 866	8 933	8 954	8 947
65	-	-	-	-	-	-	10 020	10 059	10 057

Current consumption in A

30	-	9.29	9.36	9.43	9.49	9.56	9.61	9.66	9.70
35	-	9.87	9.91	9.96	10.01	10.07	10.12	10.16	10.20
40	-	10.50	10.52	10.55	10.59	10.63	10.68	10.72	10.76
45	-	-	11.22	11.24	11.26	11.30	11.34	11.38	11.43
50	-	-	-	12.06	12.08	12.11	12.15	12.20	12.25
55	-	-	-	-	13.08	13.11	13.15	13.20	13.26
60	-	-	-	-	-	14.34	14.38	14.44	14.50
65	-	-	-	-	-	-	15.89	15.96	16.03

Mass flow in kg/h

30	-	181	227	282	345	419	504	600	709
35	-	179	224	278	342	415	499	594	702
40	-	175	220	274	337	410	493	588	695
45	-	-	214	268	330	403	486	581	688
50	-	-	-	259	322	394	477	572	679
55	-	-	-	-	310	383	467	561	668
60	-	-	-	-	-	369	453	548	655
65	-	-	-	-	-	-	436	532	640

Coefficient of performance (C.O.P.)

30	-	1.94	2.42	3.03	3.75	4.56	5.44	6.34	7.21
35	-	1.67	2.06	2.56	3.18	3.91	4.72	5.59	6.47
40	-	1.48	1.77	2.17	2.70	3.33	4.05	4.86	5.72
45	-	-	1.54	1.85	2.27	2.81	3.44	4.17	4.97
50	-	-	-	1.58	1.91	2.35	2.89	3.53	4.25
55	-	-	-	-	1.60	1.95	2.40	2.94	3.57
60	-	-	-	-	-	1.61	1.97	2.42	2.96
65	-	-	-	-	-	-	1.59	1.96	2.41

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

Cooling capacity	25 894	W
Power input	7 890	W
Current consumption	13.09	A
Mass flow	608	kg/h
C.O.P.	3.28	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	dB(A)
With acoustic hood	72	dB(A)

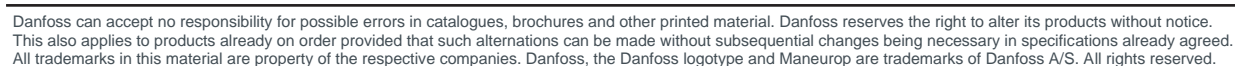
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

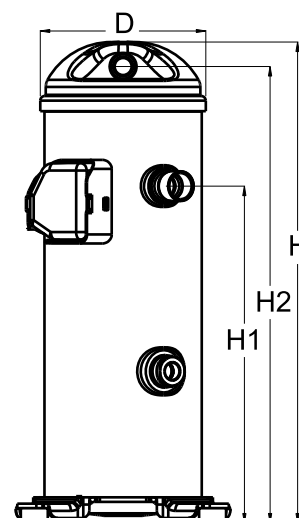
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General Characteristics

Model number (on compressor nameplate)		HCP094T4LC7
Code number for Singlepack*		120U0606
Code number for Industrial pack**		120U0603
Drawing number		0SR6169B-3
Suction and discharge connections		Brazed
Suction connection		1-1/8" ODF
Discharge connection		7/8" ODF
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		126.02 cm ³ /rev
Displacement @ Nominal speed		21.9 m ³ /h @ 2900 rpm - 26.5 m ³ /h @ 3500 rpm
Net weight		44 kg
Oil charge		2.66 litre, PVE --
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		-
Refrigerant charge limit		7.26 kg
Approved refrigerants		R407C

Dimensions

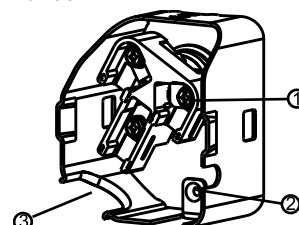


D=184 mm
H=536 mm
H1=369 mm
H2=509 mm
H3=- mm

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 1-2 +/- 7% at 25°C	1.480 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.480 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.480 Ω
Rated Load Amps (RLA)	13.5 A
Maximum Continuous Current (MCC)	21 A
Locked Rotor Amps (LRA)	84 A
Motor protection	Internal overload protector

Terminal box



IP22

- 1: Screw connectors 10-32 UNF x 9.5
- 2: Earth connection
- 3: Power cable passage

Recommended Installation torques

Oil sight glass	52.5 Nm
Power connections / Earth connection	3 Nm / 2 Nm

Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA11565), -

*Singlepack: Compressor in cardboard box

**Industrial pack: 12 or 16 Unboxed compressors on pallet

Rotolock accessories, suction side
Code no.

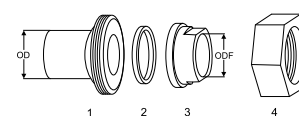
Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side
Code no.

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-3/4"	8156132

Rotolock accessories, sets
Code no.

Solder sleeve adapter set (1-3/4" Rotolock, 1-1/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

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.

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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Crankcase heaters
Code no.

Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040

Miscellaneous accessories
Code no.

Acoustic hood	120Z5045
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

Spare parts
Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Mounting kit, including 1 bolt, 1 sleeve, 1 washer	120Z5031
Terminal box cover	120Z5018

Performance data at 50 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	6 498	8 338	10 575	13 253	16 415	20 104	24 364	29 237
35	-	6 118	7 865	9 990	12 536	15 547	19 065	23 134	27 797
40	-	5 720	7 373	9 386	11 801	14 660	18 008	21 886	26 339
45	-	-	6 849	8 750	11 033	13 741	16 917	20 604	24 845
50	-	-	-	8 067	10 218	12 774	15 778	19 273	23 301
55	-	-	-	-	9 343	11 746	14 577	17 878	21 692
60	-	-	-	-	-	10 642	13 297	16 403	20 000
65	-	-	-	-	-	-	11 926	14 832	18 208

Power input in W

30	-	4 133	4 114	4 100	4 082	4 052	4 002	3 924	3 808
35	-	4 612	4 586	4 567	4 546	4 517	4 469	4 395	4 287
40	-	5 121	5 088	5 065	5 044	5 015	4 972	4 904	4 804
45	-	-	5 630	5 605	5 584	5 558	5 519	5 459	5 369
50	-	-	-	6 194	6 174	6 152	6 120	6 069	5 990
55	-	-	-	-	6 825	6 808	6 783	6 742	6 676
60	-	-	-	-	-	7 534	7 518	7 488	7 436
65	-	-	-	-	-	-	8 333	8 316	8 279

Current consumption in A

30	-	8.77	8.76	8.77	8.79	8.80	8.81	8.81	8.77
35	-	9.37	9.35	9.35	9.36	9.37	9.38	9.37	9.34
40	-	10.08	10.06	10.05	10.05	10.05	10.05	10.04	10.01
45	-	-	10.87	10.85	10.84	10.84	10.83	10.82	10.79
50	-	-	-	11.76	11.74	11.73	11.71	11.70	11.66
55	-	-	-	-	12.74	12.71	12.69	12.67	12.63
60	-	-	-	-	-	13.80	13.77	13.73	13.68
65	-	-	-	-	-	-	14.93	14.88	14.83

Mass flow in kg/h

30	-	145	183	229	282	343	414	494	585
35	-	144	182	227	279	341	411	491	581
40	-	143	180	224	277	338	408	487	577
45	-	-	177	221	273	334	404	483	573
50	-	-	-	216	268	329	399	478	568
55	-	-	-	-	262	322	392	472	561
60	-	-	-	-	-	314	383	463	553
65	-	-	-	-	-	-	372	452	542

Coefficient of performance (C.O.P.)

30	-	1.57	2.03	2.58	3.25	4.05	5.02	6.21	7.68
35	-	1.33	1.71	2.19	2.76	3.44	4.27	5.26	6.48
40	-	1.12	1.45	1.85	2.34	2.92	3.62	4.46	5.48
45	-	-	1.22	1.56	1.98	2.47	3.07	3.77	4.63
50	-	-	-	1.30	1.65	2.08	2.58	3.18	3.89
55	-	-	-	-	1.37	1.73	2.15	2.65	3.25
60	-	-	-	-	-	1.41	1.77	2.19	2.69
65	-	-	-	-	-	-	1.43	1.78	2.20

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

Cooling capacity	19 273	W
Power input	6 069	W
Current consumption	11.70	A
Mass flow	478	kg/h
C.O.P.	3.18	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	69	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. HCP094T4

Performance data at 50 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	6 978	8 943	11 329	14 182	17 547	21 468	25 991	31 160
35	-	6 603	8 476	10 753	13 477	16 694	20 448	24 786	29 751
40	-	6 209	7 991	10 158	12 754	15 823	19 412	23 564	28 325
45	-	-	7 472	9 530	11 997	14 920	18 343	22 311	26 868
50	-	-	-	8 853	11 193	13 969	17 227	21 010	25 365
55	-	-	-	-	10 325	12 955	16 048	19 648	23 800
60	-	-	-	-	-	11 862	14 790	18 207	22 157
65	-	-	-	-	-	-	13 439	16 673	20 421

Power input in W

30	-	4 133	4 114	4 100	4 082	4 052	4 002	3 924	3 808
35	-	4 612	4 586	4 567	4 546	4 517	4 469	4 395	4 287
40	-	5 121	5 088	5 065	5 044	5 015	4 972	4 904	4 804
45	-	-	5 630	5 605	5 584	5 558	5 519	5 459	5 369
50	-	-	-	6 194	6 174	6 152	6 120	6 069	5 990
55	-	-	-	-	6 825	6 808	6 783	6 742	6 676
60	-	-	-	-	-	7 534	7 518	7 488	7 436
65	-	-	-	-	-	-	8 333	8 316	8 279

Current consumption in A

30	-	8.77	8.76	8.77	8.79	8.80	8.81	8.81	8.77
35	-	9.37	9.35	9.35	9.36	9.37	9.38	9.37	9.34
40	-	10.08	10.06	10.05	10.05	10.05	10.05	10.04	10.01
45	-	-	10.87	10.85	10.84	10.84	10.83	10.82	10.79
50	-	-	-	11.76	11.74	11.73	11.71	11.70	11.66
55	-	-	-	-	12.74	12.71	12.69	12.67	12.63
60	-	-	-	-	-	13.80	13.77	13.73	13.68
65	-	-	-	-	-	-	14.93	14.88	14.83

Mass flow in kg/h

30	-	145	183	228	280	341	412	491	581
35	-	144	181	226	278	339	409	488	578
40	-	142	179	223	275	336	405	485	574
45	-	-	176	220	272	332	401	480	570
50	-	-	-	215	267	327	396	475	565
55	-	-	-	-	261	321	390	469	558
60	-	-	-	-	-	312	381	460	550
65	-	-	-	-	-	-	370	449	539

Coefficient of performance (C.O.P.)

30	-	1.69	2.17	2.76	3.47	4.33	5.36	6.62	8.18
35	-	1.43	1.85	2.35	2.96	3.70	4.58	5.64	6.94
40	-	1.21	1.57	2.01	2.53	3.15	3.90	4.81	5.90
45	-	-	1.33	1.70	2.15	2.68	3.32	4.09	5.00
50	-	-	-	1.43	1.81	2.27	2.81	3.46	4.23
55	-	-	-	-	1.51	1.90	2.37	2.91	3.57
60	-	-	-	-	-	1.57	1.97	2.43	2.98
65	-	-	-	-	-	-	1.61	2.00	2.47

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

Cooling capacity	21 582	W
Power input	6 631	W
Current consumption	12.53	A
Mass flow	508	kg/h
C.O.P.	3.25	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	69	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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Performance data at 50 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	6 498	8 338	10 575	13 253	16 415	20 104	24 364	29 237
35	-	6 118	7 865	9 990	12 536	15 547	19 065	23 134	27 797
40	-	5 720	7 373	9 386	11 801	14 660	18 008	21 886	26 339
45	-	-	6 849	8 750	11 033	13 741	16 917	20 604	24 845
50	-	-	-	8 067	10 218	12 774	15 778	19 273	23 301
55	-	-	-	-	9 343	11 746	14 577	17 878	21 692
60	-	-	-	-	-	10 642	13 297	16 403	20 000
65	-	-	-	-	-	-	11 926	14 832	18 208

Power input in W

30	-	4 133	4 114	4 100	4 082	4 052	4 002	3 924	3 808
35	-	4 612	4 586	4 567	4 546	4 517	4 469	4 395	4 287
40	-	5 121	5 088	5 065	5 044	5 015	4 972	4 904	4 804
45	-	-	5 630	5 605	5 584	5 558	5 519	5 459	5 369
50	-	-	-	6 194	6 174	6 152	6 120	6 069	5 990
55	-	-	-	-	6 825	6 808	6 783	6 742	6 676
60	-	-	-	-	-	7 534	7 518	7 488	7 436
65	-	-	-	-	-	-	8 333	8 316	8 279

Current consumption in A

30	-	8.77	8.76	8.77	8.79	8.80	8.81	8.81	8.77
35	-	9.37	9.35	9.35	9.36	9.37	9.38	9.37	9.34
40	-	10.08	10.06	10.05	10.05	10.05	10.05	10.04	10.01
45	-	-	10.87	10.85	10.84	10.84	10.83	10.82	10.79
50	-	-	-	11.76	11.74	11.73	11.71	11.70	11.66
55	-	-	-	-	12.74	12.71	12.69	12.67	12.63
60	-	-	-	-	-	13.80	13.77	13.73	13.68
65	-	-	-	-	-	-	14.93	14.88	14.83

Mass flow in kg/h

30	-	145	183	229	282	343	414	494	585
35	-	144	182	227	279	341	411	491	581
40	-	143	180	224	277	338	408	487	577
45	-	-	177	221	273	334	404	483	573
50	-	-	-	216	268	329	399	478	568
55	-	-	-	-	262	322	392	472	561
60	-	-	-	-	-	314	383	463	553
65	-	-	-	-	-	-	372	452	542

Coefficient of performance (C.O.P.)

30	-	1.57	2.03	2.58	3.25	4.05	5.02	6.21	7.68
35	-	1.33	1.71	2.19	2.76	3.44	4.27	5.26	6.48
40	-	1.12	1.45	1.85	2.34	2.92	3.62	4.46	5.48
45	-	-	1.22	1.56	1.98	2.47	3.07	3.77	4.63
50	-	-	-	1.30	1.65	2.08	2.58	3.18	3.89
55	-	-	-	-	1.37	1.73	2.15	2.65	3.25
60	-	-	-	-	-	1.41	1.77	2.19	2.69
65	-	-	-	-	-	-	1.43	1.78	2.20

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

Cooling capacity	19 273	W
Power input	6 069	W
Current consumption	11.70	A
Mass flow	478	kg/h
C.O.P.	3.18	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	69	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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Performance data at 50 Hz, ARI rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	6 978	8 943	11 329	14 182	17 547	21 468	25 991	31 160
35	-	6 603	8 476	10 753	13 477	16 694	20 448	24 786	29 751
40	-	6 209	7 991	10 158	12 754	15 823	19 412	23 564	28 325
45	-	-	7 472	9 530	11 997	14 920	18 343	22 311	26 868
50	-	-	-	8 853	11 193	13 969	17 227	21 010	25 365
55	-	-	-	-	10 325	12 955	16 048	19 648	23 800
60	-	-	-	-	-	11 862	14 790	18 207	22 157
65	-	-	-	-	-	-	13 439	16 673	20 421

Power input in W

30	-	4 133	4 114	4 100	4 082	4 052	4 002	3 924	3 808
35	-	4 612	4 586	4 567	4 546	4 517	4 469	4 395	4 287
40	-	5 121	5 088	5 065	5 044	5 015	4 972	4 904	4 804
45	-	-	5 630	5 605	5 584	5 558	5 519	5 459	5 369
50	-	-	-	6 194	6 174	6 152	6 120	6 069	5 990
55	-	-	-	-	6 825	6 808	6 783	6 742	6 676
60	-	-	-	-	-	7 534	7 518	7 488	7 436
65	-	-	-	-	-	-	8 333	8 316	8 279

Current consumption in A

30	-	8.77	8.76	8.77	8.79	8.80	8.81	8.81	8.77
35	-	9.37	9.35	9.35	9.36	9.37	9.38	9.37	9.34
40	-	10.08	10.06	10.05	10.05	10.05	10.05	10.04	10.01
45	-	-	10.87	10.85	10.84	10.84	10.83	10.82	10.79
50	-	-	-	11.76	11.74	11.73	11.71	11.70	11.66
55	-	-	-	-	12.74	12.71	12.69	12.67	12.63
60	-	-	-	-	-	13.80	13.77	13.73	13.68
65	-	-	-	-	-	-	14.93	14.88	14.83

Mass flow in kg/h

30	-	145	183	228	280	341	412	491	581
35	-	144	181	226	278	339	409	488	578
40	-	142	179	223	275	336	405	485	574
45	-	-	176	220	272	332	401	480	570
50	-	-	-	215	267	327	396	475	565
55	-	-	-	-	261	321	390	469	558
60	-	-	-	-	-	312	381	460	550
65	-	-	-	-	-	-	370	449	539

Coefficient of performance (C.O.P.)

30	-	1.69	2.17	2.76	3.47	4.33	5.36	6.62	8.18
35	-	1.43	1.85	2.35	2.96	3.70	4.58	5.64	6.94
40	-	1.21	1.57	2.01	2.53	3.15	3.90	4.81	5.90
45	-	-	1.33	1.70	2.15	2.68	3.32	4.09	5.00
50	-	-	-	1.43	1.81	2.27	2.81	3.46	4.23
55	-	-	-	-	1.51	1.90	2.37	2.91	3.57
60	-	-	-	-	-	1.57	1.97	2.43	2.98
65	-	-	-	-	-	-	1.61	2.00	2.47

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

Cooling capacity	21 582	W
Power input	6 631	W
Current consumption	12.53	A
Mass flow	508	kg/h
C.O.P.	3.25	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	69	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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Performance data at 60 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	8 031	10 309	13 120	16 432	20 210	24 422	29 031	34 006
35	-	7 619	9 637	12 240	15 394	19 066	23 222	27 830	32 855
40	-	7 366	9 071	11 408	14 347	17 855	21 898	26 444	31 459
45	-	-	8 628	10 646	13 314	16 601	20 472	24 897	29 842
50	-	-	-	9 973	12 315	15 324	18 966	23 212	28 026
55	-	-	-	-	11 370	14 045	17 402	21 409	26 034
60	-	-	-	-	-	12 785	15 800	19 510	23 886
65	-	-	-	-	-	-	14 177	17 534	21 600

Power input in W

30	-	4 453	4 563	4 635	4 686	4 733	4 794	4 886	5 027
35	-	4 909	5 050	5 140	5 196	5 236	5 276	5 336	5 431
40	-	5 386	5 566	5 683	5 752	5 793	5 822	5 856	5 914
45	-	-	6 126	6 277	6 369	6 419	6 444	6 463	6 491
50	-	-	-	6 939	7 062	7 130	7 160	7 171	7 179
55	-	-	-	-	7 846	7 940	7 985	7 996	7 993
60	-	-	-	-	-	8 866	8 933	8 954	8 947
65	-	-	-	-	-	-	10 020	10 059	10 057

Current consumption in A

30	-	9.29	9.36	9.43	9.49	9.56	9.61	9.66	9.70
35	-	9.87	9.91	9.96	10.01	10.07	10.12	10.16	10.20
40	-	10.50	10.52	10.55	10.59	10.63	10.68	10.72	10.76
45	-	-	11.22	11.24	11.26	11.30	11.34	11.38	11.43
50	-	-	-	12.06	12.08	12.11	12.15	12.20	12.25
55	-	-	-	-	13.08	13.11	13.15	13.20	13.26
60	-	-	-	-	-	14.34	14.38	14.44	14.50
65	-	-	-	-	-	-	15.89	15.96	16.03

Mass flow in kg/h

30	-	182	228	283	347	422	507	604	713
35	-	180	226	280	343	417	502	598	706
40	-	176	221	275	339	412	496	591	699
45	-	-	215	269	332	405	489	584	692
50	-	-	-	260	323	396	480	575	683
55	-	-	-	-	312	385	469	565	672
60	-	-	-	-	-	371	455	551	659
65	-	-	-	-	-	-	438	535	644

Coefficient of performance (C.O.P.)

30	-	1.80	2.26	2.83	3.51	4.27	5.09	5.94	6.76
35	-	1.55	1.91	2.38	2.96	3.64	4.40	5.22	6.05
40	-	1.37	1.63	2.01	2.49	3.08	3.76	4.52	5.32
45	-	-	1.41	1.70	2.09	2.59	3.18	3.85	4.60
50	-	-	-	1.44	1.74	2.15	2.65	3.24	3.90
55	-	-	-	-	1.45	1.77	2.18	2.68	3.26
60	-	-	-	-	-	1.44	1.77	2.18	2.67
65	-	-	-	-	-	-	1.41	1.74	2.15

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

Cooling capacity	23 212	W
Power input	7 171	W
Current consumption	12.20	A
Mass flow	575	kg/h
C.O.P.	3.24	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	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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Performance data at 60 Hz, ARI rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	8 624	11 056	14 055	17 584	21 604	26 079	30 971	36 243
35	-	8 222	10 387	13 175	16 549	20 472	24 907	29 816	35 163
40	-	7 996	9 831	12 347	15 506	19 271	23 606	28 472	33 832
45	-	-	9 412	11 595	14 479	18 025	22 198	26 960	32 273
50	-	-	-	10 944	13 491	16 758	20 708	25 304	30 509
55	-	-	-	-	12 565	15 492	19 159	23 528	28 564
60	-	-	-	-	-	14 251	17 574	21 656	26 462
65	-	-	-	-	-	-	15 977	19 711	24 225

Power input in W

30	-	4 453	4 563	4 635	4 686	4 733	4 794	4 886	5 027
35	-	4 909	5 050	5 140	5 196	5 236	5 276	5 336	5 431
40	-	5 386	5 566	5 683	5 752	5 793	5 822	5 856	5 914
45	-	-	6 126	6 277	6 369	6 419	6 444	6 463	6 491
50	-	-	-	6 939	7 062	7 130	7 160	7 171	7 179
55	-	-	-	-	7 846	7 940	7 985	7 996	7 993
60	-	-	-	-	-	8 866	8 933	8 954	8 947
65	-	-	-	-	-	-	10 020	10 059	10 057

Current consumption in A

30	-	9.29	9.36	9.43	9.49	9.56	9.61	9.66	9.70
35	-	9.87	9.91	9.96	10.01	10.07	10.12	10.16	10.20
40	-	10.50	10.52	10.55	10.59	10.63	10.68	10.72	10.76
45	-	-	11.22	11.24	11.26	11.30	11.34	11.38	11.43
50	-	-	-	12.06	12.08	12.11	12.15	12.20	12.25
55	-	-	-	-	13.08	13.11	13.15	13.20	13.26
60	-	-	-	-	-	14.34	14.38	14.44	14.50
65	-	-	-	-	-	-	15.89	15.96	16.03

Mass flow in kg/h

30	-	181	227	282	345	419	504	600	709
35	-	179	224	278	342	415	499	594	702
40	-	175	220	274	337	410	493	588	695
45	-	-	214	268	330	403	486	581	688
50	-	-	-	259	322	394	477	572	679
55	-	-	-	-	310	383	467	561	668
60	-	-	-	-	-	369	453	548	655
65	-	-	-	-	-	-	436	532	640

Coefficient of performance (C.O.P.)

30	-	1.94	2.42	3.03	3.75	4.56	5.44	6.34	7.21
35	-	1.67	2.06	2.56	3.18	3.91	4.72	5.59	6.47
40	-	1.48	1.77	2.17	2.70	3.33	4.05	4.86	5.72
45	-	-	1.54	1.85	2.27	2.81	3.44	4.17	4.97
50	-	-	-	1.58	1.91	2.35	2.89	3.53	4.25
55	-	-	-	-	1.60	1.95	2.40	2.94	3.57
60	-	-	-	-	-	1.61	1.97	2.42	2.96
65	-	-	-	-	-	-	1.59	1.96	2.41

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

Cooling capacity	25 894	W
Power input	7 890	W
Current consumption	13.09	A
Mass flow	608	kg/h
C.O.P.	3.28	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	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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Performance data at 60 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	8 031	10 309	13 120	16 432	20 210	24 422	29 031	34 006
35	-	7 619	9 637	12 240	15 394	19 066	23 222	27 830	32 855
40	-	7 366	9 071	11 408	14 347	17 855	21 898	26 444	31 459
45	-	-	8 628	10 646	13 314	16 601	20 472	24 897	29 842
50	-	-	-	9 973	12 315	15 324	18 966	23 212	28 026
55	-	-	-	-	11 370	14 045	17 402	21 409	26 034
60	-	-	-	-	-	12 785	15 800	19 510	23 886
65	-	-	-	-	-	-	14 177	17 534	21 600

Power input in W

30	-	4 453	4 563	4 635	4 686	4 733	4 794	4 886	5 027
35	-	4 909	5 050	5 140	5 196	5 236	5 276	5 336	5 431
40	-	5 386	5 566	5 683	5 752	5 793	5 822	5 856	5 914
45	-	-	6 126	6 277	6 369	6 419	6 444	6 463	6 491
50	-	-	-	6 939	7 062	7 130	7 160	7 171	7 179
55	-	-	-	-	7 846	7 940	7 985	7 996	7 993
60	-	-	-	-	-	8 866	8 933	8 954	8 947
65	-	-	-	-	-	-	10 020	10 059	10 057

Current consumption in A

30	-	9.29	9.36	9.43	9.49	9.56	9.61	9.66	9.70
35	-	9.87	9.91	9.96	10.01	10.07	10.12	10.16	10.20
40	-	10.50	10.52	10.55	10.59	10.63	10.68	10.72	10.76
45	-	-	11.22	11.24	11.26	11.30	11.34	11.38	11.43
50	-	-	-	12.06	12.08	12.11	12.15	12.20	12.25
55	-	-	-	-	13.08	13.11	13.15	13.20	13.26
60	-	-	-	-	-	14.34	14.38	14.44	14.50
65	-	-	-	-	-	-	15.89	15.96	16.03

Mass flow in kg/h

30	-	182	228	283	347	422	507	604	713
35	-	180	226	280	343	417	502	598	706
40	-	176	221	275	339	412	496	591	699
45	-	-	215	269	332	405	489	584	692
50	-	-	-	260	323	396	480	575	683
55	-	-	-	-	312	385	469	565	672
60	-	-	-	-	-	371	455	551	659
65	-	-	-	-	-	-	438	535	644

Coefficient of performance (C.O.P.)

30	-	1.80	2.26	2.83	3.51	4.27	5.09	5.94	6.76
35	-	1.55	1.91	2.38	2.96	3.64	4.40	5.22	6.05
40	-	1.37	1.63	2.01	2.49	3.08	3.76	4.52	5.32
45	-	-	1.41	1.70	2.09	2.59	3.18	3.85	4.60
50	-	-	-	1.44	1.74	2.15	2.65	3.24	3.90
55	-	-	-	-	1.45	1.77	2.18	2.68	3.26
60	-	-	-	-	-	1.44	1.77	2.18	2.67
65	-	-	-	-	-	-	1.41	1.74	2.15

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

Cooling capacity	23 212	W
Power input	7 171	W
Current consumption	12.20	A
Mass flow	575	kg/h
C.O.P.	3.24	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	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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Performance data at 60 Hz, ARI rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	8 624	11 056	14 055	17 584	21 604	26 079	30 971	36 243
35	-	8 222	10 387	13 175	16 549	20 472	24 907	29 816	35 163
40	-	7 996	9 831	12 347	15 506	19 271	23 606	28 472	33 832
45	-	-	9 412	11 595	14 479	18 025	22 198	26 960	32 273
50	-	-	-	10 944	13 491	16 758	20 708	25 304	30 509
55	-	-	-	-	12 565	15 492	19 159	23 528	28 564
60	-	-	-	-	-	14 251	17 574	21 656	26 462
65	-	-	-	-	-	-	15 977	19 711	24 225

Power input in W

30	-	4 453	4 563	4 635	4 686	4 733	4 794	4 886	5 027
35	-	4 909	5 050	5 140	5 196	5 236	5 276	5 336	5 431
40	-	5 386	5 566	5 683	5 752	5 793	5 822	5 856	5 914
45	-	-	6 126	6 277	6 369	6 419	6 444	6 463	6 491
50	-	-	-	6 939	7 062	7 130	7 160	7 171	7 179
55	-	-	-	-	7 846	7 940	7 985	7 996	7 993
60	-	-	-	-	-	8 866	8 933	8 954	8 947
65	-	-	-	-	-	-	10 020	10 059	10 057

Current consumption in A

30	-	9.29	9.36	9.43	9.49	9.56	9.61	9.66	9.70
35	-	9.87	9.91	9.96	10.01	10.07	10.12	10.16	10.20
40	-	10.50	10.52	10.55	10.59	10.63	10.68	10.72	10.76
45	-	-	11.22	11.24	11.26	11.30	11.34	11.38	11.43
50	-	-	-	12.06	12.08	12.11	12.15	12.20	12.25
55	-	-	-	-	13.08	13.11	13.15	13.20	13.26
60	-	-	-	-	-	14.34	14.38	14.44	14.50
65	-	-	-	-	-	-	15.89	15.96	16.03

Mass flow in kg/h

30	-	181	227	282	345	419	504	600	709
35	-	179	224	278	342	415	499	594	702
40	-	175	220	274	337	410	493	588	695
45	-	-	214	268	330	403	486	581	688
50	-	-	-	259	322	394	477	572	679
55	-	-	-	-	310	383	467	561	668
60	-	-	-	-	-	369	453	548	655
65	-	-	-	-	-	-	436	532	640

Coefficient of performance (C.O.P.)

30	-	1.94	2.42	3.03	3.75	4.56	5.44	6.34	7.21
35	-	1.67	2.06	2.56	3.18	3.91	4.72	5.59	6.47
40	-	1.48	1.77	2.17	2.70	3.33	4.05	4.86	5.72
45	-	-	1.54	1.85	2.27	2.81	3.44	4.17	4.97
50	-	-	-	1.58	1.91	2.35	2.89	3.53	4.25
55	-	-	-	-	1.60	1.95	2.40	2.94	3.57
60	-	-	-	-	-	1.61	1.97	2.42	2.96
65	-	-	-	-	-	-	1.59	1.96	2.41

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

Cooling capacity	25 894	W
Power input	7 890	W
Current consumption	13.09	A
Mass flow	608	kg/h
C.O.P.	3.28	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	dB(A)
With acoustic hood	72	dB(A)

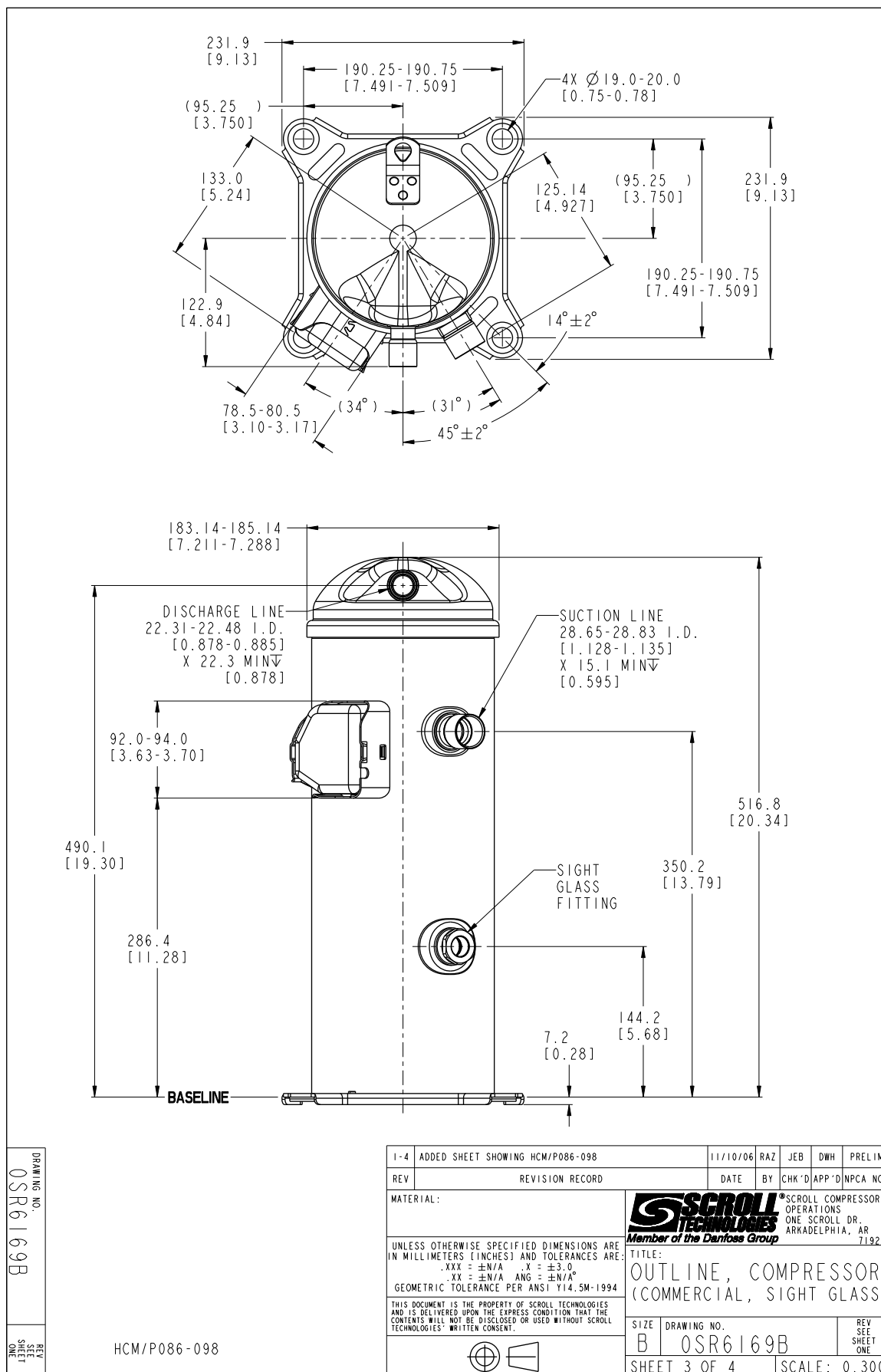
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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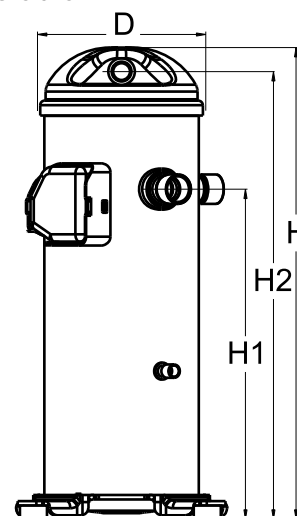


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General Characteristics

Model number (on compressor nameplate)		HCP094T4LC8
Code number for Singlepack*		120U0611
Code number for Industrial pack**		120U0608
Drawing number		0SR4103B-3
Suction and discharge connections		Brazed
Suction connection		1-1/8" ODF
Discharge connection		7/8" ODF
Oil sight glass		None
Oil equalisation connection		1/2"
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		126.02 cm ³ /rev
Displacement @ Nominal speed		21.9 m ³ /h @ 2900 rpm - 26.5 m ³ /h @ 3500 rpm
Net weight		44 kg
Oil charge		2.66 litre, PVE --
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		-
Refrigerant charge limit		7.26 kg
Approved refrigerants		R407C

Dimensions

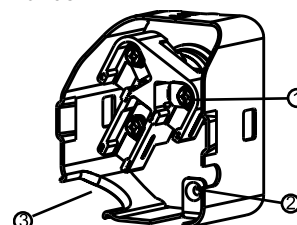


D=184 mm
H=536 mm
H1=369 mm
H2=509 mm
H3=-- mm

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 1-2 +/- 7% at 25°C	1.480 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.480 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.480 Ω
Rated Load Amps (RLA)	13.5 A
Maximum Continuous Current (MCC)	21 A
Locked Rotor Amps (LRA)	84 A
Motor protection	Internal overload protector

Terminal box



IP22

- 1: Screw connectors 10-32 UNF x 9.5
- 2: Earth connection
- 3: Power cable passage

Recommended Installation torques

Oil sight glass	52.5 Nm
Power connections / Earth connection	3 Nm / 2 Nm

Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA11565), -

*Singlepack: Compressor in cardboard box

**Industrial pack: 12 or 16 Unboxed compressors on pallet

Rotolock accessories, suction side
Code no.

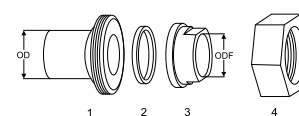
Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side
Code no.

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-3/4"	8156132

Rotolock accessories, sets
Code no.

Solder sleeve adapter set (1-3/4" Rotolock, 1-1/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

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.

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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Crankcase heaters
Code no.

Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040

Miscellaneous accessories
Code no.

Acoustic hood	120Z5045
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

Spare parts
Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Mounting kit, including 1 bolt, 1 sleeve, 1 washer	120Z5031
Terminal box cover	120Z5018

Performance data at 50 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	6 498	8 338	10 575	13 253	16 415	20 104	24 364	29 237
35	-	6 118	7 865	9 990	12 536	15 547	19 065	23 134	27 797
40	-	5 720	7 373	9 386	11 801	14 660	18 008	21 886	26 339
45	-	-	6 849	8 750	11 033	13 741	16 917	20 604	24 845
50	-	-	-	8 067	10 218	12 774	15 778	19 273	23 301
55	-	-	-	-	9 343	11 746	14 577	17 878	21 692
60	-	-	-	-	-	10 642	13 297	16 403	20 000
65	-	-	-	-	-	-	11 926	14 832	18 208

Power input in W

30	-	4 133	4 114	4 100	4 082	4 052	4 002	3 924	3 808
35	-	4 612	4 586	4 567	4 546	4 517	4 469	4 395	4 287
40	-	5 121	5 088	5 065	5 044	5 015	4 972	4 904	4 804
45	-	-	5 630	5 605	5 584	5 558	5 519	5 459	5 369
50	-	-	-	6 194	6 174	6 152	6 120	6 069	5 990
55	-	-	-	-	6 825	6 808	6 783	6 742	6 676
60	-	-	-	-	-	7 534	7 518	7 488	7 436
65	-	-	-	-	-	-	8 333	8 316	8 279

Current consumption in A

30	-	8.77	8.76	8.77	8.79	8.80	8.81	8.81	8.77
35	-	9.37	9.35	9.35	9.36	9.37	9.38	9.37	9.34
40	-	10.08	10.06	10.05	10.05	10.05	10.05	10.04	10.01
45	-	-	10.87	10.85	10.84	10.84	10.83	10.82	10.79
50	-	-	-	11.76	11.74	11.73	11.71	11.70	11.66
55	-	-	-	-	12.74	12.71	12.69	12.67	12.63
60	-	-	-	-	-	13.80	13.77	13.73	13.68
65	-	-	-	-	-	-	14.93	14.88	14.83

Mass flow in kg/h

30	-	145	183	229	282	343	414	494	585
35	-	144	182	227	279	341	411	491	581
40	-	143	180	224	277	338	408	487	577
45	-	-	177	221	273	334	404	483	573
50	-	-	-	216	268	329	399	478	568
55	-	-	-	-	262	322	392	472	561
60	-	-	-	-	-	314	383	463	553
65	-	-	-	-	-	-	372	452	542

Coefficient of performance (C.O.P.)

30	-	1.57	2.03	2.58	3.25	4.05	5.02	6.21	7.68
35	-	1.33	1.71	2.19	2.76	3.44	4.27	5.26	6.48
40	-	1.12	1.45	1.85	2.34	2.92	3.62	4.46	5.48
45	-	-	1.22	1.56	1.98	2.47	3.07	3.77	4.63
50	-	-	-	1.30	1.65	2.08	2.58	3.18	3.89
55	-	-	-	-	1.37	1.73	2.15	2.65	3.25
60	-	-	-	-	-	1.41	1.77	2.19	2.69
65	-	-	-	-	-	-	1.43	1.78	2.20

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

Cooling capacity	19 273	W
Power input	6 069	W
Current consumption	11.70	A
Mass flow	478	kg/h
C.O.P.	3.18	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	69	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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Performance data at 50 Hz, ARI rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	6 978	8 943	11 329	14 182	17 547	21 468	25 991	31 160
35	-	6 603	8 476	10 753	13 477	16 694	20 448	24 786	29 751
40	-	6 209	7 991	10 158	12 754	15 823	19 412	23 564	28 325
45	-	-	7 472	9 530	11 997	14 920	18 343	22 311	26 868
50	-	-	-	8 853	11 193	13 969	17 227	21 010	25 365
55	-	-	-	-	10 325	12 955	16 048	19 648	23 800
60	-	-	-	-	-	11 862	14 790	18 207	22 157
65	-	-	-	-	-	-	13 439	16 673	20 421

Power input in W

30	-	4 133	4 114	4 100	4 082	4 052	4 002	3 924	3 808
35	-	4 612	4 586	4 567	4 546	4 517	4 469	4 395	4 287
40	-	5 121	5 088	5 065	5 044	5 015	4 972	4 904	4 804
45	-	-	5 630	5 605	5 584	5 558	5 519	5 459	5 369
50	-	-	-	6 194	6 174	6 152	6 120	6 069	5 990
55	-	-	-	-	6 825	6 808	6 783	6 742	6 676
60	-	-	-	-	-	7 534	7 518	7 488	7 436
65	-	-	-	-	-	-	8 333	8 316	8 279

Current consumption in A

30	-	8.77	8.76	8.77	8.79	8.80	8.81	8.81	8.77
35	-	9.37	9.35	9.35	9.36	9.37	9.38	9.37	9.34
40	-	10.08	10.06	10.05	10.05	10.05	10.05	10.04	10.01
45	-	-	10.87	10.85	10.84	10.84	10.83	10.82	10.79
50	-	-	-	11.76	11.74	11.73	11.71	11.70	11.66
55	-	-	-	-	12.74	12.71	12.69	12.67	12.63
60	-	-	-	-	-	13.80	13.77	13.73	13.68
65	-	-	-	-	-	-	14.93	14.88	14.83

Mass flow in kg/h

30	-	145	183	228	280	341	412	491	581
35	-	144	181	226	278	339	409	488	578
40	-	142	179	223	275	336	405	485	574
45	-	-	176	220	272	332	401	480	570
50	-	-	-	215	267	327	396	475	565
55	-	-	-	-	261	321	390	469	558
60	-	-	-	-	-	312	381	460	550
65	-	-	-	-	-	-	370	449	539

Coefficient of performance (C.O.P.)

30	-	1.69	2.17	2.76	3.47	4.33	5.36	6.62	8.18
35	-	1.43	1.85	2.35	2.96	3.70	4.58	5.64	6.94
40	-	1.21	1.57	2.01	2.53	3.15	3.90	4.81	5.90
45	-	-	1.33	1.70	2.15	2.68	3.32	4.09	5.00
50	-	-	-	1.43	1.81	2.27	2.81	3.46	4.23
55	-	-	-	-	1.51	1.90	2.37	2.91	3.57
60	-	-	-	-	-	1.57	1.97	2.43	2.98
65	-	-	-	-	-	-	1.61	2.00	2.47

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

Cooling capacity	21 582	W
Power input	6 631	W
Current consumption	12.53	A
Mass flow	508	kg/h
C.O.P.	3.25	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	69	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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Performance data at 50 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	6 498	8 338	10 575	13 253	16 415	20 104	24 364	29 237
35	-	6 118	7 865	9 990	12 536	15 547	19 065	23 134	27 797
40	-	5 720	7 373	9 386	11 801	14 660	18 008	21 886	26 339
45	-	-	6 849	8 750	11 033	13 741	16 917	20 604	24 845
50	-	-	-	8 067	10 218	12 774	15 778	19 273	23 301
55	-	-	-	-	9 343	11 746	14 577	17 878	21 692
60	-	-	-	-	-	10 642	13 297	16 403	20 000
65	-	-	-	-	-	-	11 926	14 832	18 208

Power input in W

30	-	4 133	4 114	4 100	4 082	4 052	4 002	3 924	3 808
35	-	4 612	4 586	4 567	4 546	4 517	4 469	4 395	4 287
40	-	5 121	5 088	5 065	5 044	5 015	4 972	4 904	4 804
45	-	-	5 630	5 605	5 584	5 558	5 519	5 459	5 369
50	-	-	-	6 194	6 174	6 152	6 120	6 069	5 990
55	-	-	-	-	6 825	6 808	6 783	6 742	6 676
60	-	-	-	-	-	7 534	7 518	7 488	7 436
65	-	-	-	-	-	-	8 333	8 316	8 279

Current consumption in A

30	-	8.77	8.76	8.77	8.79	8.80	8.81	8.81	8.77
35	-	9.37	9.35	9.35	9.36	9.37	9.38	9.37	9.34
40	-	10.08	10.06	10.05	10.05	10.05	10.05	10.04	10.01
45	-	-	10.87	10.85	10.84	10.84	10.83	10.82	10.79
50	-	-	-	11.76	11.74	11.73	11.71	11.70	11.66
55	-	-	-	-	12.74	12.71	12.69	12.67	12.63
60	-	-	-	-	-	13.80	13.77	13.73	13.68
65	-	-	-	-	-	-	14.93	14.88	14.83

Mass flow in kg/h

30	-	145	183	229	282	343	414	494	585
35	-	144	182	227	279	341	411	491	581
40	-	143	180	224	277	338	408	487	577
45	-	-	177	221	273	334	404	483	573
50	-	-	-	216	268	329	399	478	568
55	-	-	-	-	262	322	392	472	561
60	-	-	-	-	-	314	383	463	553
65	-	-	-	-	-	-	372	452	542

Coefficient of performance (C.O.P.)

30	-	1.57	2.03	2.58	3.25	4.05	5.02	6.21	7.68
35	-	1.33	1.71	2.19	2.76	3.44	4.27	5.26	6.48
40	-	1.12	1.45	1.85	2.34	2.92	3.62	4.46	5.48
45	-	-	1.22	1.56	1.98	2.47	3.07	3.77	4.63
50	-	-	-	1.30	1.65	2.08	2.58	3.18	3.89
55	-	-	-	-	1.37	1.73	2.15	2.65	3.25
60	-	-	-	-	-	1.41	1.77	2.19	2.69
65	-	-	-	-	-	-	1.43	1.78	2.20

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

Cooling capacity	19 273	W
Power input	6 069	W
Current consumption	11.70	A
Mass flow	478	kg/h
C.O.P.	3.18	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	69	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. HCP094T4

Performance data at 50 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	6 978	8 943	11 329	14 182	17 547	21 468	25 991	31 160
35	-	6 603	8 476	10 753	13 477	16 694	20 448	24 786	29 751
40	-	6 209	7 991	10 158	12 754	15 823	19 412	23 564	28 325
45	-	-	7 472	9 530	11 997	14 920	18 343	22 311	26 868
50	-	-	-	8 853	11 193	13 969	17 227	21 010	25 365
55	-	-	-	-	10 325	12 955	16 048	19 648	23 800
60	-	-	-	-	-	11 862	14 790	18 207	22 157
65	-	-	-	-	-	-	13 439	16 673	20 421

Power input in W

30	-	4 133	4 114	4 100	4 082	4 052	4 002	3 924	3 808
35	-	4 612	4 586	4 567	4 546	4 517	4 469	4 395	4 287
40	-	5 121	5 088	5 065	5 044	5 015	4 972	4 904	4 804
45	-	-	5 630	5 605	5 584	5 558	5 519	5 459	5 369
50	-	-	-	6 194	6 174	6 152	6 120	6 069	5 990
55	-	-	-	-	6 825	6 808	6 783	6 742	6 676
60	-	-	-	-	-	7 534	7 518	7 488	7 436
65	-	-	-	-	-	-	8 333	8 316	8 279

Current consumption in A

30	-	8.77	8.76	8.77	8.79	8.80	8.81	8.81	8.77
35	-	9.37	9.35	9.35	9.36	9.37	9.38	9.37	9.34
40	-	10.08	10.06	10.05	10.05	10.05	10.05	10.04	10.01
45	-	-	10.87	10.85	10.84	10.84	10.83	10.82	10.79
50	-	-	-	11.76	11.74	11.73	11.71	11.70	11.66
55	-	-	-	-	12.74	12.71	12.69	12.67	12.63
60	-	-	-	-	-	13.80	13.77	13.73	13.68
65	-	-	-	-	-	-	14.93	14.88	14.83

Mass flow in kg/h

30	-	145	183	228	280	341	412	491	581
35	-	144	181	226	278	339	409	488	578
40	-	142	179	223	275	336	405	485	574
45	-	-	176	220	272	332	401	480	570
50	-	-	-	215	267	327	396	475	565
55	-	-	-	-	261	321	390	469	558
60	-	-	-	-	-	312	381	460	550
65	-	-	-	-	-	-	370	449	539

Coefficient of performance (C.O.P.)

30	-	1.69	2.17	2.76	3.47	4.33	5.36	6.62	8.18
35	-	1.43	1.85	2.35	2.96	3.70	4.58	5.64	6.94
40	-	1.21	1.57	2.01	2.53	3.15	3.90	4.81	5.90
45	-	-	1.33	1.70	2.15	2.68	3.32	4.09	5.00
50	-	-	-	1.43	1.81	2.27	2.81	3.46	4.23
55	-	-	-	-	1.51	1.90	2.37	2.91	3.57
60	-	-	-	-	-	1.57	1.97	2.43	2.98
65	-	-	-	-	-	-	1.61	2.00	2.47

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

Cooling capacity	21 582	W
Power input	6 631	W
Current consumption	12.53	A
Mass flow	508	kg/h
C.O.P.	3.25	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	74	dB(A)
With accoustic hood	69	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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Performance data at 60 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	8 031	10 309	13 120	16 432	20 210	24 422	29 031	34 006
35	-	7 619	9 637	12 240	15 394	19 066	23 222	27 830	32 855
40	-	7 366	9 071	11 408	14 347	17 855	21 898	26 444	31 459
45	-	-	8 628	10 646	13 314	16 601	20 472	24 897	29 842
50	-	-	-	9 973	12 315	15 324	18 966	23 212	28 026
55	-	-	-	-	11 370	14 045	17 402	21 409	26 034
60	-	-	-	-	-	12 785	15 800	19 510	23 886
65	-	-	-	-	-	-	14 177	17 534	21 600

Power input in W

30	-	4 453	4 563	4 635	4 686	4 733	4 794	4 886	5 027
35	-	4 909	5 050	5 140	5 196	5 236	5 276	5 336	5 431
40	-	5 386	5 566	5 683	5 752	5 793	5 822	5 856	5 914
45	-	-	6 126	6 277	6 369	6 419	6 444	6 463	6 491
50	-	-	-	6 939	7 062	7 130	7 160	7 171	7 179
55	-	-	-	-	7 846	7 940	7 985	7 996	7 993
60	-	-	-	-	-	8 866	8 933	8 954	8 947
65	-	-	-	-	-	-	10 020	10 059	10 057

Current consumption in A

30	-	9.29	9.36	9.43	9.49	9.56	9.61	9.66	9.70
35	-	9.87	9.91	9.96	10.01	10.07	10.12	10.16	10.20
40	-	10.50	10.52	10.55	10.59	10.63	10.68	10.72	10.76
45	-	-	11.22	11.24	11.26	11.30	11.34	11.38	11.43
50	-	-	-	12.06	12.08	12.11	12.15	12.20	12.25
55	-	-	-	-	13.08	13.11	13.15	13.20	13.26
60	-	-	-	-	-	14.34	14.38	14.44	14.50
65	-	-	-	-	-	-	15.89	15.96	16.03

Mass flow in kg/h

30	-	182	228	283	347	422	507	604	713
35	-	180	226	280	343	417	502	598	706
40	-	176	221	275	339	412	496	591	699
45	-	-	215	269	332	405	489	584	692
50	-	-	-	260	323	396	480	575	683
55	-	-	-	-	312	385	469	565	672
60	-	-	-	-	-	371	455	551	659
65	-	-	-	-	-	-	438	535	644

Coefficient of performance (C.O.P.)

30	-	1.80	2.26	2.83	3.51	4.27	5.09	5.94	6.76
35	-	1.55	1.91	2.38	2.96	3.64	4.40	5.22	6.05
40	-	1.37	1.63	2.01	2.49	3.08	3.76	4.52	5.32
45	-	-	1.41	1.70	2.09	2.59	3.18	3.85	4.60
50	-	-	-	1.44	1.74	2.15	2.65	3.24	3.90
55	-	-	-	-	1.45	1.77	2.18	2.68	3.26
60	-	-	-	-	-	1.44	1.77	2.18	2.67
65	-	-	-	-	-	-	1.41	1.74	2.15

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

Cooling capacity	23 212	W
Power input	7 171	W
Current consumption	12.20	A
Mass flow	575	kg/h
C.O.P.	3.24	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	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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Performance data at 60 Hz, ARI rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	8 624	11 056	14 055	17 584	21 604	26 079	30 971	36 243
35	-	8 222	10 387	13 175	16 549	20 472	24 907	29 816	35 163
40	-	7 996	9 831	12 347	15 506	19 271	23 606	28 472	33 832
45	-	-	9 412	11 595	14 479	18 025	22 198	26 960	32 273
50	-	-	-	10 944	13 491	16 758	20 708	25 304	30 509
55	-	-	-	-	12 565	15 492	19 159	23 528	28 564
60	-	-	-	-	-	14 251	17 574	21 656	26 462
65	-	-	-	-	-	-	15 977	19 711	24 225

Power input in W

30	-	4 453	4 563	4 635	4 686	4 733	4 794	4 886	5 027
35	-	4 909	5 050	5 140	5 196	5 236	5 276	5 336	5 431
40	-	5 386	5 566	5 683	5 752	5 793	5 822	5 856	5 914
45	-	-	6 126	6 277	6 369	6 419	6 444	6 463	6 491
50	-	-	-	6 939	7 062	7 130	7 160	7 171	7 179
55	-	-	-	-	7 846	7 940	7 985	7 996	7 993
60	-	-	-	-	-	8 866	8 933	8 954	8 947
65	-	-	-	-	-	-	10 020	10 059	10 057

Current consumption in A

30	-	9.29	9.36	9.43	9.49	9.56	9.61	9.66	9.70
35	-	9.87	9.91	9.96	10.01	10.07	10.12	10.16	10.20
40	-	10.50	10.52	10.55	10.59	10.63	10.68	10.72	10.76
45	-	-	11.22	11.24	11.26	11.30	11.34	11.38	11.43
50	-	-	-	12.06	12.08	12.11	12.15	12.20	12.25
55	-	-	-	-	13.08	13.11	13.15	13.20	13.26
60	-	-	-	-	-	14.34	14.38	14.44	14.50
65	-	-	-	-	-	-	15.89	15.96	16.03

Mass flow in kg/h

30	-	181	227	282	345	419	504	600	709
35	-	179	224	278	342	415	499	594	702
40	-	175	220	274	337	410	493	588	695
45	-	-	214	268	330	403	486	581	688
50	-	-	-	259	322	394	477	572	679
55	-	-	-	-	310	383	467	561	668
60	-	-	-	-	-	369	453	548	655
65	-	-	-	-	-	-	436	532	640

Coefficient of performance (C.O.P.)

30	-	1.94	2.42	3.03	3.75	4.56	5.44	6.34	7.21
35	-	1.67	2.06	2.56	3.18	3.91	4.72	5.59	6.47
40	-	1.48	1.77	2.17	2.70	3.33	4.05	4.86	5.72
45	-	-	1.54	1.85	2.27	2.81	3.44	4.17	4.97
50	-	-	-	1.58	1.91	2.35	2.89	3.53	4.25
55	-	-	-	-	1.60	1.95	2.40	2.94	3.57
60	-	-	-	-	-	1.61	1.97	2.42	2.96
65	-	-	-	-	-	-	1.59	1.96	2.41

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

Cooling capacity	25 894	W
Power input	7 890	W
Current consumption	13.09	A
Mass flow	608	kg/h
C.O.P.	3.28	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	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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Performance data at 60 Hz, EN 12900 rating conditions
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	8 031	10 309	13 120	16 432	20 210	24 422	29 031	34 006
35	-	7 619	9 637	12 240	15 394	19 066	23 222	27 830	32 855
40	-	7 366	9 071	11 408	14 347	17 855	21 898	26 444	31 459
45	-	-	8 628	10 646	13 314	16 601	20 472	24 897	29 842
50	-	-	-	9 973	12 315	15 324	18 966	23 212	28 026
55	-	-	-	-	11 370	14 045	17 402	21 409	26 034
60	-	-	-	-	-	12 785	15 800	19 510	23 886
65	-	-	-	-	-	-	14 177	17 534	21 600

Power input in W

30	-	4 453	4 563	4 635	4 686	4 733	4 794	4 886	5 027
35	-	4 909	5 050	5 140	5 196	5 236	5 276	5 336	5 431
40	-	5 386	5 566	5 683	5 752	5 793	5 822	5 856	5 914
45	-	-	6 126	6 277	6 369	6 419	6 444	6 463	6 491
50	-	-	-	6 939	7 062	7 130	7 160	7 171	7 179
55	-	-	-	-	7 846	7 940	7 985	7 996	7 993
60	-	-	-	-	-	8 866	8 933	8 954	8 947
65	-	-	-	-	-	-	10 020	10 059	10 057

Current consumption in A

30	-	9.29	9.36	9.43	9.49	9.56	9.61	9.66	9.70
35	-	9.87	9.91	9.96	10.01	10.07	10.12	10.16	10.20
40	-	10.50	10.52	10.55	10.59	10.63	10.68	10.72	10.76
45	-	-	11.22	11.24	11.26	11.30	11.34	11.38	11.43
50	-	-	-	12.06	12.08	12.11	12.15	12.20	12.25
55	-	-	-	-	13.08	13.11	13.15	13.20	13.26
60	-	-	-	-	-	14.34	14.38	14.44	14.50
65	-	-	-	-	-	-	15.89	15.96	16.03

Mass flow in kg/h

30	-	182	228	283	347	422	507	604	713
35	-	180	226	280	343	417	502	598	706
40	-	176	221	275	339	412	496	591	699
45	-	-	215	269	332	405	489	584	692
50	-	-	-	260	323	396	480	575	683
55	-	-	-	-	312	385	469	565	672
60	-	-	-	-	-	371	455	551	659
65	-	-	-	-	-	-	438	535	644

Coefficient of performance (C.O.P.)

30	-	1.80	2.26	2.83	3.51	4.27	5.09	5.94	6.76
35	-	1.55	1.91	2.38	2.96	3.64	4.40	5.22	6.05
40	-	1.37	1.63	2.01	2.49	3.08	3.76	4.52	5.32
45	-	-	1.41	1.70	2.09	2.59	3.18	3.85	4.60
50	-	-	-	1.44	1.74	2.15	2.65	3.24	3.90
55	-	-	-	-	1.45	1.77	2.18	2.68	3.26
60	-	-	-	-	-	1.44	1.77	2.18	2.67
65	-	-	-	-	-	-	1.41	1.74	2.15

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

Cooling capacity	23 212	W
Power input	7 171	W
Current consumption	12.20	A
Mass flow	575	kg/h
C.O.P.	3.24	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	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. HCP094T4

Performance data at 60 Hz, ARI rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	8 624	11 056	14 055	17 584	21 604	26 079	30 971	36 243
35	-	8 222	10 387	13 175	16 549	20 472	24 907	29 816	35 163
40	-	7 996	9 831	12 347	15 506	19 271	23 606	28 472	33 832
45	-	-	9 412	11 595	14 479	18 025	22 198	26 960	32 273
50	-	-	-	10 944	13 491	16 758	20 708	25 304	30 509
55	-	-	-	-	12 565	15 492	19 159	23 528	28 564
60	-	-	-	-	-	14 251	17 574	21 656	26 462
65	-	-	-	-	-	-	15 977	19 711	24 225

Power input in W

30	-	4 453	4 563	4 635	4 686	4 733	4 794	4 886	5 027
35	-	4 909	5 050	5 140	5 196	5 236	5 276	5 336	5 431
40	-	5 386	5 566	5 683	5 752	5 793	5 822	5 856	5 914
45	-	-	6 126	6 277	6 369	6 419	6 444	6 463	6 491
50	-	-	-	6 939	7 062	7 130	7 160	7 171	7 179
55	-	-	-	-	7 846	7 940	7 985	7 996	7 993
60	-	-	-	-	-	8 866	8 933	8 954	8 947
65	-	-	-	-	-	-	10 020	10 059	10 057

Current consumption in A

30	-	9.29	9.36	9.43	9.49	9.56	9.61	9.66	9.70
35	-	9.87	9.91	9.96	10.01	10.07	10.12	10.16	10.20
40	-	10.50	10.52	10.55	10.59	10.63	10.68	10.72	10.76
45	-	-	11.22	11.24	11.26	11.30	11.34	11.38	11.43
50	-	-	-	12.06	12.08	12.11	12.15	12.20	12.25
55	-	-	-	-	13.08	13.11	13.15	13.20	13.26
60	-	-	-	-	-	14.34	14.38	14.44	14.50
65	-	-	-	-	-	-	15.89	15.96	16.03

Mass flow in kg/h

30	-	181	227	282	345	419	504	600	709
35	-	179	224	278	342	415	499	594	702
40	-	175	220	274	337	410	493	588	695
45	-	-	214	268	330	403	486	581	688
50	-	-	-	259	322	394	477	572	679
55	-	-	-	-	310	383	467	561	668
60	-	-	-	-	-	369	453	548	655
65	-	-	-	-	-	-	436	532	640

Coefficient of performance (C.O.P.)

30	-	1.94	2.42	3.03	3.75	4.56	5.44	6.34	7.21
35	-	1.67	2.06	2.56	3.18	3.91	4.72	5.59	6.47
40	-	1.48	1.77	2.17	2.70	3.33	4.05	4.86	5.72
45	-	-	1.54	1.85	2.27	2.81	3.44	4.17	4.97
50	-	-	-	1.58	1.91	2.35	2.89	3.53	4.25
55	-	-	-	-	1.60	1.95	2.40	2.94	3.57
60	-	-	-	-	-	1.61	1.97	2.42	2.96
65	-	-	-	-	-	-	1.59	1.96	2.41

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

Cooling capacity	25 894	W
Power input	7 890	W
Current consumption	13.09	A
Mass flow	608	kg/h
C.O.P.	3.28	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	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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