

Datasheets

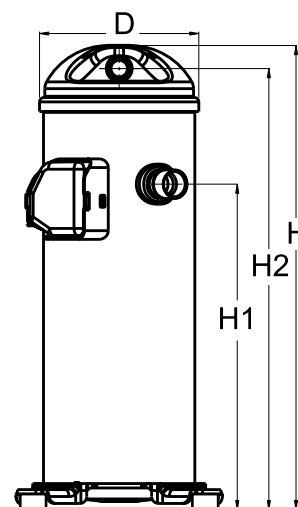
# Danfoss scroll compressors **H series**



**General Characteristics**

Model number (on compressor nameplate)		<b>HCJ121T4LC6</b>
Code number for Singlepack*		121L3117
Code number for Industrial pack**		121L3116
Drawing number		OSR4109B1
Suction and discharge connections		Brazed
Suction connection		1-1/8" ODF
Discharge connection		7/8" ODF
Oil sight glass		None
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		116.4 cm <sup>3</sup> /rev
Displacement @ Nominal speed		20.3 m <sup>3</sup> /h @ 2900 rpm - 24.4 m <sup>3</sup> /h @ 3500 rpm
Net weight		49 kg
Oil charge		2.46 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		R410A

**Dimensions**

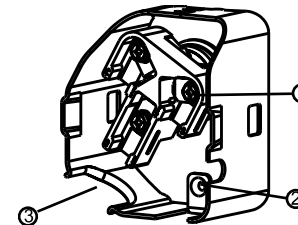


D=184 mm  
H=565 mm  
H1=404.7 mm  
H2=537.8 mm  
H3=- mm

**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	0.960 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	0.940 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	0.960 Ω
Rated Load Amps (RLA)	17.9 A
Maximum Continuous Current (MCC)	25 A
Locked Rotor Amps (LRA)	125 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	0 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 Unboxed compressors on pallet (order per multiples of 12)

**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

**Oil / lubricants**

**Code no.**

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 230 V, UL	120Z5011
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, 460 V, UL	120Z5012

**Miscellaneous accessories**

**Code no.**

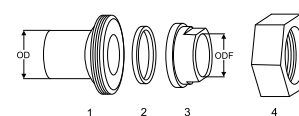
Discharge thermostat kit	7750009
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**Spare parts**

**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
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (white teflon)	8156129

**Solder sleeve adapter set**



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

Performance data at 50 Hz, EN 12900 rating conditions

R410A

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

Cooling capacity in W

30	10 891	13 496	16 548	20 108	24 235	28 989	34 429	40 616	-
35	10 154	12 662	15 593	19 008	22 965	27 523	32 743	38 684	-
40	9 349	11 740	14 529	17 777	21 542	25 884	30 861	36 533	-
45	-	10 747	13 374	16 433	19 985	24 087	28 798	34 177	-
50	-	-	12 142	14 991	18 306	22 144	26 565	31 626	-
55	-	-	-	13 460	16 513	20 063	24 166	28 879	-
60	-	-	-	-	14 603	17 831	21 583	25 913	-
65	-	-	-	-	-	15 398	18 748	22 641	-

Power input in W

30	5 397	5 400	5 390	5 390	5 421	5 506	5 666	5 926	-
35	5 965	5 984	5 975	5 959	5 959	5 996	6 093	6 272	-
40	6 598	6 648	6 652	6 634	6 616	6 619	6 666	6 779	-
45	-	7 401	7 433	7 426	7 403	7 385	7 396	7 456	-
50	-	-	8 326	8 344	8 330	8 305	8 293	8 314	-
55	-	-	-	9 400	9 408	9 390	9 367	9 363	-
60	-	-	-	-	10 647	10 649	10 630	10 613	-
65	-	-	-	-	-	12 092	12 091	12 075	-

Current consumption in A

30	11.07	11.14	11.19	11.23	11.24	11.24	11.21	11.16	-
35	11.79	11.85	11.91	11.96	12.00	12.02	12.04	12.04	-
40	12.55	12.60	12.64	12.69	12.73	12.77	12.81	12.85	-
45	-	13.47	13.49	13.52	13.55	13.59	13.64	13.69	-
50	-	-	14.55	14.55	14.56	14.58	14.62	14.68	-
55	-	-	-	15.88	15.85	15.85	15.86	15.90	-
60	-	-	-	-	17.54	17.49	17.47	17.48	-
65	-	-	-	-	-	19.62	19.54	19.51	-

Mass flow in kg/h

30	227	278	336	403	480	568	668	782	-
35	223	274	333	400	478	566	667	781	-
40	218	269	327	395	473	562	663	777	-
45	-	262	320	388	466	555	656	770	-
50	-	-	312	379	456	545	646	760	-
55	-	-	-	368	444	532	633	747	-
60	-	-	-	-	430	517	617	730	-
65	-	-	-	-	-	499	598	710	-

Coefficient of performance (C.O.P.)

30	2.02	2.50	3.07	3.73	4.47	5.27	6.08	6.85	-
35	1.70	2.12	2.61	3.19	3.85	4.59	5.37	6.17	-
40	1.42	1.77	2.18	2.68	3.26	3.91	4.63	5.39	-
45	-	1.45	1.80	2.21	2.70	3.26	3.89	4.58	-
50	-	-	1.46	1.80	2.20	2.67	3.20	3.80	-
55	-	-	-	1.43	1.76	2.14	2.58	3.08	-
60	-	-	-	-	1.37	1.67	2.03	2.44	-
65	-	-	-	-	-	1.27	1.55	1.87	-

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

Cooling capacity	26 565	W
Power input	8 293	W
Current consumption	14.62	A
Mass flow	646	kg/h
C.O.P.	3.20	

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

Sound power data

Sound power level	75	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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Performance data at 50 Hz, ARI rating conditions

R410A

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

Cooling capacity in W

30	11 762	14 559	17 834	21 650	26 070	31 156	36 974	43 584	-
35	11 036	13 746	16 910	20 591	24 852	29 757	35 368	41 750	-
40	10 241	12 843	15 874	19 399	23 481	28 183	33 568	39 700	-
45	-	11 868	14 746	18 095	21 976	26 455	31 593	37 454	-
50	-	-	13 546	16 697	20 358	24 592	29 462	35 032	-
55	-	-	-	15 226	18 645	22 614	27 195	32 453	-
60	-	-	-	-	16 858	20 540	24 812	29 736	-
65	-	-	-	-	-	18 391	22 332	26 902	-

Power input in W

30	5 397	5 400	5 390	5 390	5 421	5 506	5 666	5 926	-
35	5 965	5 984	5 975	5 959	5 959	5 996	6 093	6 272	-
40	6 598	6 648	6 652	6 634	6 616	6 619	6 666	6 779	-
45	-	7 401	7 433	7 426	7 403	7 385	7 396	7 456	-
50	-	-	8 326	8 344	8 330	8 305	8 293	8 314	-
55	-	-	-	9 400	9 408	9 390	9 367	9 363	-
60	-	-	-	-	10 647	10 649	10 630	10 613	-
65	-	-	-	-	-	12 092	12 091	12 075	-

Current consumption in A

30	11.07	11.14	11.19	11.23	11.24	11.24	11.21	11.16	-
35	11.79	11.85	11.91	11.96	12.00	12.02	12.04	12.04	-
40	12.55	12.60	12.64	12.69	12.73	12.77	12.81	12.85	-
45	-	13.47	13.49	13.52	13.55	13.59	13.64	13.69	-
50	-	-	14.55	14.55	14.56	14.58	14.62	14.68	-
55	-	-	-	15.88	15.85	15.85	15.86	15.90	-
60	-	-	-	-	17.54	17.49	17.47	17.48	-
65	-	-	-	-	-	19.62	19.54	19.51	-

Mass flow in kg/h

30	226	276	334	401	477	564	664	776	-
35	222	272	331	398	475	562	662	775	-
40	216	267	325	393	470	558	658	772	-
45	-	260	319	386	463	551	651	765	-
50	-	-	310	377	453	541	641	755	-
55	-	-	-	365	442	529	628	741	-
60	-	-	-	-	427	514	612	725	-
65	-	-	-	-	-	496	594	705	-

Coefficient of performance (C.O.P.)

30	2.18	2.70	3.31	4.02	4.81	5.66	6.53	7.36	-
35	1.85	2.30	2.83	3.46	4.17	4.96	5.80	6.66	-
40	1.55	1.93	2.39	2.92	3.55	4.26	5.04	5.86	-
45	-	1.60	1.98	2.44	2.97	3.58	4.27	5.02	-
50	-	-	1.63	2.00	2.44	2.96	3.55	4.21	-
55	-	-	-	1.62	1.98	2.41	2.90	3.47	-
60	-	-	-	-	1.58	1.93	2.33	2.80	-
65	-	-	-	-	-	1.52	1.85	2.23	-

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

Cooling capacity	29 717	W
Power input	9 224	W
Current consumption	15.71	A
Mass flow	678	kg/h
C.O.P.	3.22	

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

Sound power data

Sound power level	75	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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**Performance data at 60 Hz, EN 12900 rating conditions**
**R410A**

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

**Cooling capacity in W**

30	12 770	15 958	19 689	24 036	29 072	34 869	41 500	49 039	-
35	11 915	14 984	18 563	22 724	27 540	33 084	39 427	46 643	-
40	10 992	13 920	17 325	21 279	25 854	31 122	37 154	44 024	-
45	-	12 785	15 994	19 718	24 029	28 998	34 696	41 194	-
50	-	-	14 582	18 054	22 077	26 722	32 060	38 162	-
55	-	-	-	16 293	20 002	24 296	29 245	34 919	-
60	-	-	-	-	17 793	21 702	26 225	31 432	-
65	-	-	-	-	-	18 866	22 909	27 586	-

**Power input in W**

30	6 390	6 434	6 486	6 548	6 621	6 706	6 805	6 918	-
35	7 087	7 122	7 165	7 219	7 285	7 363	7 455	7 562	-
40	7 892	7 914	7 946	7 988	8 043	8 111	8 193	8 292	-
45	-	8 836	8 853	8 881	8 922	8 977	9 046	9 132	-
50	-	-	9 913	9 924	9 948	9 986	10 040	10 110	-
55	-	-	-	11 143	11 146	11 165	11 200	11 252	-
60	-	-	-	-	12 544	12 540	12 553	12 583	-
65	-	-	-	-	-	14 137	14 124	14 130	-

**Current consumption in A**

30	10.67	10.78	10.86	10.93	10.99	11.03	11.06	11.08	-
35	11.43	11.54	11.63	11.70	11.76	11.80	11.84	11.86	-
40	12.26	12.37	12.46	12.53	12.59	12.64	12.68	12.71	-
45	-	13.33	13.42	13.49	13.55	13.60	13.64	13.67	-
50	-	-	14.57	14.64	14.69	14.74	14.77	14.80	-
55	-	-	-	16.02	16.07	16.11	16.14	16.17	-
60	-	-	-	-	17.74	17.78	17.81	17.82	-
65	-	-	-	-	-	19.80	19.82	19.83	-

**Mass flow in kg/h**

30	266	328	400	482	576	683	805	944	-
35	262	324	396	478	573	681	803	942	-
40	256	318	390	473	568	675	798	936	-
45	-	311	383	466	560	668	790	928	-
50	-	-	374	456	550	657	779	917	-
55	-	-	-	445	538	645	766	903	-
60	-	-	-	-	524	629	749	885	-
65	-	-	-	-	-	612	730	865	-

**Coefficient of performance (C.O.P.)**

30	2.00	2.48	3.04	3.67	4.39	5.20	6.10	7.09	-
35	1.68	2.10	2.59	3.15	3.78	4.49	5.29	6.17	-
40	1.39	1.76	2.18	2.66	3.21	3.84	4.53	5.31	-
45	-	1.45	1.81	2.22	2.69	3.23	3.84	4.51	-
50	-	-	1.47	1.82	2.22	2.68	3.19	3.77	-
55	-	-	-	1.46	1.79	2.18	2.61	3.10	-
60	-	-	-	-	1.42	1.73	2.09	2.50	-
65	-	-	-	-	-	1.33	1.62	1.95	-

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

Cooling capacity	32 060	W
Power input	10 040	W
Current consumption	14.77	A
Mass flow	779	kg/h
C.O.P.	3.19	

**Pressure switch settings**

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

**Sound power data**

Sound power level	78	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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Performance data at 60 Hz, ARI rating conditions

R410A

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

Cooling capacity in W

30	13 790	17 215	21 219	25 880	31 273	37 476	44 567	52 623	-
35	12 951	16 267	20 130	24 616	29 803	35 768	42 588	50 340	-
40	12 042	15 228	18 929	23 221	28 181	33 886	40 413	47 840	-
45	-	14 118	17 635	21 712	26 424	31 848	38 063	45 145	-
50	-	-	16 269	20 109	24 552	29 675	35 556	42 271	-
55	-	-	-	18 431	22 584	27 385	32 911	39 240	-
60	-	-	-	-	20 540	24 998	30 149	36 069	-
65	-	-	-	-	-	22 533	27 288	32 779	-

Power input in W

30	6 390	6 434	6 486	6 548	6 621	6 706	6 805	6 918	-
35	7 087	7 122	7 165	7 219	7 285	7 363	7 455	7 562	-
40	7 892	7 914	7 946	7 988	8 043	8 111	8 193	8 292	-
45	-	8 836	8 853	8 881	8 922	8 977	9 046	9 132	-
50	-	-	9 913	9 924	9 948	9 986	10 040	10 110	-
55	-	-	-	11 143	11 146	11 165	11 200	11 252	-
60	-	-	-	-	12 544	12 540	12 553	12 583	-
65	-	-	-	-	-	14 137	14 124	14 130	-

Current consumption in A

30	10.67	10.78	10.86	10.93	10.99	11.03	11.06	11.08	-
35	11.43	11.54	11.63	11.70	11.76	11.80	11.84	11.86	-
40	12.26	12.37	12.46	12.53	12.59	12.64	12.68	12.71	-
45	-	13.33	13.42	13.49	13.55	13.60	13.64	13.67	-
50	-	-	14.57	14.64	14.69	14.74	14.77	14.80	-
55	-	-	-	16.02	16.07	16.11	16.14	16.17	-
60	-	-	-	-	17.74	17.78	17.81	17.82	-
65	-	-	-	-	-	19.80	19.82	19.83	-

Mass flow in kg/h

30	265	326	397	479	572	679	800	937	-
35	260	322	394	475	569	676	798	935	-
40	254	317	388	470	564	671	792	930	-
45	-	310	381	463	556	663	784	922	-
50	-	-	372	453	547	653	774	910	-
55	-	-	-	442	535	640	760	896	-
60	-	-	-	-	521	625	744	879	-
65	-	-	-	-	-	608	725	859	-

Coefficient of performance (C.O.P.)

30	2.16	2.68	3.27	3.95	4.72	5.59	6.55	7.61	-
35	1.83	2.28	2.81	3.41	4.09	4.86	5.71	6.66	-
40	1.53	1.92	2.38	2.91	3.50	4.18	4.93	5.77	-
45	-	1.60	1.99	2.44	2.96	3.55	4.21	4.94	-
50	-	-	1.64	2.03	2.47	2.97	3.54	4.18	-
55	-	-	-	1.65	2.03	2.45	2.94	3.49	-
60	-	-	-	-	1.64	1.99	2.40	2.87	-
65	-	-	-	-	-	1.59	1.93	2.32	-

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

Cooling capacity	35 937	W
Power input	11 073	W
Current consumption	15.98	A
Mass flow	820	kg/h
C.O.P.	3.25	

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

Sound power data

Sound power level	78	dB(A)
With acoustic hood	0	dB(A)

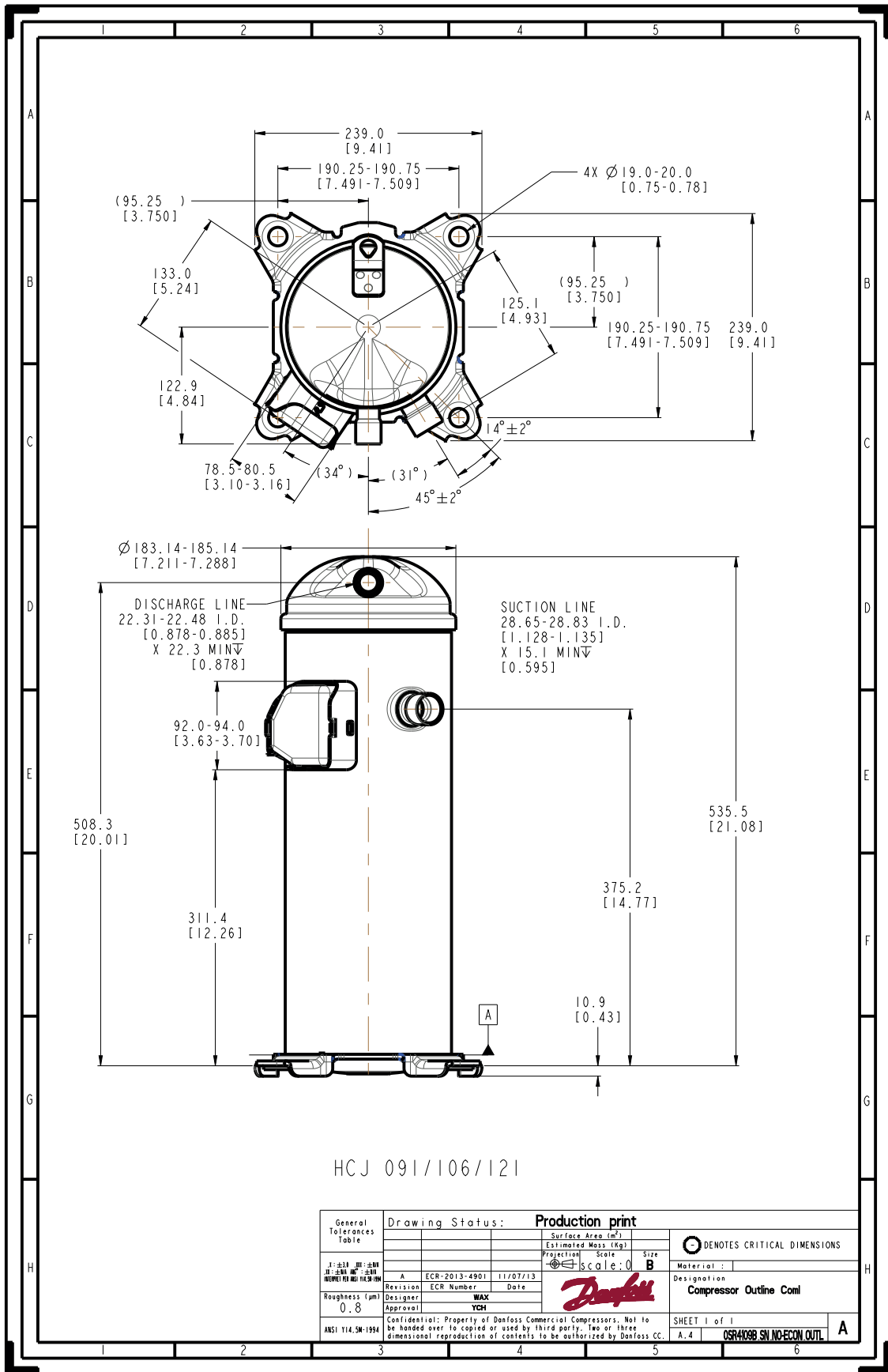
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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General Tolerances Table	Drawing Status: <b>Production print</b>			Surface Area (m <sup>2</sup> )	Scale	Size <b>B</b>	Material:
				Estimated Mass (kg)			
J: ±0.1 M: ±0.05 N: ±0.03 P: ±0.02	Revision	ECR Number	Date			Compressor Outline Coml	
Roughness (µm) <b>0.8</b>	Designer	WAX	YCH			SHEET 1 of 1	
ANSI 114.5M-1994	Confidential: Property of Danfoss Commercial Compressors. Not to be handed over to copied or used by third party. Two or three dimensional reproduction of contents to be authorized by Danfoss CC.						

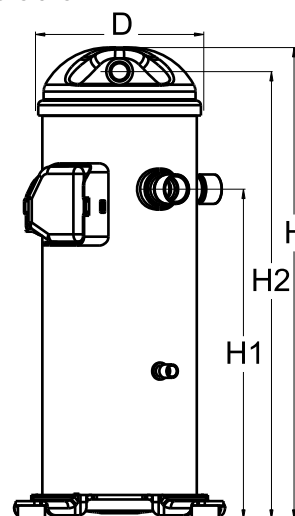
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**General Characteristics**

Model number (on compressor nameplate)		<b>HCJ121T4LC8</b>
Code number for Singlepack*		121L3123
Code number for Industrial pack**		121L3122
Drawing number		OSR4110B1
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		116.4 cm <sup>3</sup> /rev
Displacement @ Nominal speed		20.3 m <sup>3</sup> /h @ 2900 rpm - 24.4 m <sup>3</sup> /h @ 3500 rpm
Net weight		49 kg
Oil charge		2.46 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		R410A

**Dimensions**

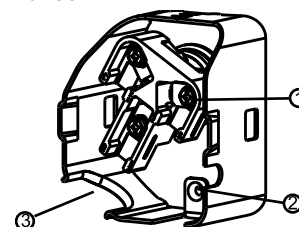


D=184 mm  
H=565 mm  
H1=404.7 mm  
H2=537.8 mm  
H3=- mm

**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	0.960 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	0.940 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	0.960 Ω
Rated Load Amps (RLA)	17.9 A
Maximum Continuous Current (MCC)	25 A
Locked Rotor Amps (LRA)	125 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	0 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 Unboxed compressors on pallet (order per multiples of 12)

**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

**Oil / lubricants**

**Code no.**

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 230 V, UL	120Z5011
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, 460 V, UL	120Z5012

**Miscellaneous accessories**

**Code no.**

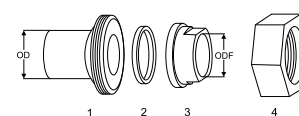
Discharge thermostat kit	7750009
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**Spare parts**

**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

**Solder sleeve adapter set**



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

Performance data at 50 Hz, EN 12900 rating conditions

R410A

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

Cooling capacity in W

30	10 891	13 496	16 548	20 108	24 235	28 989	34 429	40 616	-
35	10 154	12 662	15 593	19 008	22 965	27 523	32 743	38 684	-
40	9 349	11 740	14 529	17 777	21 542	25 884	30 861	36 533	-
45	-	10 747	13 374	16 433	19 985	24 087	28 798	34 177	-
50	-	-	12 142	14 991	18 306	22 144	26 565	31 626	-
55	-	-	-	13 460	16 513	20 063	24 166	28 879	-
60	-	-	-	-	14 603	17 831	21 583	25 913	-
65	-	-	-	-	-	15 398	18 748	22 641	-

Power input in W

30	5 397	5 400	5 390	5 390	5 421	5 506	5 666	5 926	-
35	5 965	5 984	5 975	5 959	5 959	5 996	6 093	6 272	-
40	6 598	6 648	6 652	6 634	6 616	6 619	6 666	6 779	-
45	-	7 401	7 433	7 426	7 403	7 385	7 396	7 456	-
50	-	-	8 326	8 344	8 330	8 305	8 293	8 314	-
55	-	-	-	9 400	9 408	9 390	9 367	9 363	-
60	-	-	-	-	10 647	10 649	10 630	10 613	-
65	-	-	-	-	-	12 092	12 091	12 075	-

Current consumption in A

30	11.07	11.14	11.19	11.23	11.24	11.24	11.21	11.16	-
35	11.79	11.85	11.91	11.96	12.00	12.02	12.04	12.04	-
40	12.55	12.60	12.64	12.69	12.73	12.77	12.81	12.85	-
45	-	13.47	13.49	13.52	13.55	13.59	13.64	13.69	-
50	-	-	14.55	14.55	14.56	14.58	14.62	14.68	-
55	-	-	-	15.88	15.85	15.85	15.86	15.90	-
60	-	-	-	-	17.54	17.49	17.47	17.48	-
65	-	-	-	-	-	19.62	19.54	19.51	-

Mass flow in kg/h

30	227	278	336	403	480	568	668	782	-
35	223	274	333	400	478	566	667	781	-
40	218	269	327	395	473	562	663	777	-
45	-	262	320	388	466	555	656	770	-
50	-	-	312	379	456	545	646	760	-
55	-	-	-	368	444	532	633	747	-
60	-	-	-	-	430	517	617	730	-
65	-	-	-	-	-	499	598	710	-

Coefficient of performance (C.O.P.)

30	2.02	2.50	3.07	3.73	4.47	5.27	6.08	6.85	-
35	1.70	2.12	2.61	3.19	3.85	4.59	5.37	6.17	-
40	1.42	1.77	2.18	2.68	3.26	3.91	4.63	5.39	-
45	-	1.45	1.80	2.21	2.70	3.26	3.89	4.58	-
50	-	-	1.46	1.80	2.20	2.67	3.20	3.80	-
55	-	-	-	1.43	1.76	2.14	2.58	3.08	-
60	-	-	-	-	1.37	1.67	2.03	2.44	-
65	-	-	-	-	-	1.27	1.55	1.87	-

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

Cooling capacity	26 565	W
Power input	8 293	W
Current consumption	14.62	A
Mass flow	646	kg/h
C.O.P.	3.20	

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

Sound power data

Sound power level	75	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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Performance data at 50 Hz, ARI rating conditions

R410A

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

Cooling capacity in W

30	11 762	14 559	17 834	21 650	26 070	31 156	36 974	43 584	-
35	11 036	13 746	16 910	20 591	24 852	29 757	35 368	41 750	-
40	10 241	12 843	15 874	19 399	23 481	28 183	33 568	39 700	-
45	-	11 868	14 746	18 095	21 976	26 455	31 593	37 454	-
50	-	-	13 546	16 697	20 358	24 592	29 462	35 032	-
55	-	-	-	15 226	18 645	22 614	27 195	32 453	-
60	-	-	-	-	16 858	20 540	24 812	29 736	-
65	-	-	-	-	-	18 391	22 332	26 902	-

Power input in W

30	5 397	5 400	5 390	5 390	5 421	5 506	5 666	5 926	-
35	5 965	5 984	5 975	5 959	5 959	5 996	6 093	6 272	-
40	6 598	6 648	6 652	6 634	6 616	6 619	6 666	6 779	-
45	-	7 401	7 433	7 426	7 403	7 385	7 396	7 456	-
50	-	-	8 326	8 344	8 330	8 305	8 293	8 314	-
55	-	-	-	9 400	9 408	9 390	9 367	9 363	-
60	-	-	-	-	10 647	10 649	10 630	10 613	-
65	-	-	-	-	-	12 092	12 091	12 075	-

Current consumption in A

30	11.07	11.14	11.19	11.23	11.24	11.24	11.21	11.16	-
35	11.79	11.85	11.91	11.96	12.00	12.02	12.04	12.04	-
40	12.55	12.60	12.64	12.69	12.73	12.77	12.81	12.85	-
45	-	13.47	13.49	13.52	13.55	13.59	13.64	13.69	-
50	-	-	14.55	14.55	14.56	14.58	14.62	14.68	-
55	-	-	-	15.88	15.85	15.85	15.86	15.90	-
60	-	-	-	-	17.54	17.49	17.47	17.48	-
65	-	-	-	-	-	19.62	19.54	19.51	-

Mass flow in kg/h

30	226	276	334	401	477	564	664	776	-
35	222	272	331	398	475	562	662	775	-
40	216	267	325	393	470	558	658	772	-
45	-	260	319	386	463	551	651	765	-
50	-	-	310	377	453	541	641	755	-
55	-	-	-	365	442	529	628	741	-
60	-	-	-	-	427	514	612	725	-
65	-	-	-	-	-	496	594	705	-

Coefficient of performance (C.O.P.)

30	2.18	2.70	3.31	4.02	4.81	5.66	6.53	7.36	-
35	1.85	2.30	2.83	3.46	4.17	4.96	5.80	6.66	-
40	1.55	1.93	2.39	2.92	3.55	4.26	5.04	5.86	-
45	-	1.60	1.98	2.44	2.97	3.58	4.27	5.02	-
50	-	-	1.63	2.00	2.44	2.96	3.55	4.21	-
55	-	-	-	1.62	1.98	2.41	2.90	3.47	-
60	-	-	-	-	1.58	1.93	2.33	2.80	-
65	-	-	-	-	-	1.52	1.85	2.23	-

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

Cooling capacity	29 717	W
Power input	9 224	W
Current consumption	15.71	A
Mass flow	678	kg/h
C.O.P.	3.22	

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

Sound power data

Sound power level	75	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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Performance data at 60 Hz, EN 12900 rating conditions

R410A

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

Cooling capacity in W

30	12 770	15 958	19 689	24 036	29 072	34 869	41 500	49 039	-
35	11 915	14 984	18 563	22 724	27 540	33 084	39 427	46 643	-
40	10 992	13 920	17 325	21 279	25 854	31 122	37 154	44 024	-
45	-	12 785	15 994	19 718	24 029	28 998	34 696	41 194	-
50	-	-	14 582	18 054	22 077	26 722	32 060	38 162	-
55	-	-	-	16 293	20 002	24 296	29 245	34 919	-
60	-	-	-	-	17 793	21 702	26 225	31 432	-
65	-	-	-	-	-	18 866	22 909	27 586	-

Power input in W

30	6 390	6 434	6 486	6 548	6 621	6 706	6 805	6 918	-
35	7 087	7 122	7 165	7 219	7 285	7 363	7 455	7 562	-
40	7 892	7 914	7 946	7 988	8 043	8 111	8 193	8 292	-
45	-	8 836	8 853	8 881	8 922	8 977	9 046	9 132	-
50	-	-	9 913	9 924	9 948	9 986	10 040	10 110	-
55	-	-	-	11 143	11 146	11 165	11 200	11 252	-
60	-	-	-	-	12 544	12 540	12 553	12 583	-
65	-	-	-	-	-	14 137	14 124	14 130	-

Current consumption in A

30	10.67	10.78	10.86	10.93	10.99	11.03	11.06	11.08	-
35	11.43	11.54	11.63	11.70	11.76	11.80	11.84	11.86	-
40	12.26	12.37	12.46	12.53	12.59	12.64	12.68	12.71	-
45	-	13.33	13.42	13.49	13.55	13.60	13.64	13.67	-
50	-	-	14.57	14.64	14.69	14.74	14.77	14.80	-
55	-	-	-	16.02	16.07	16.11	16.14	16.17	-
60	-	-	-	-	17.74	17.78	17.81	17.82	-
65	-	-	-	-	-	19.80	19.82	19.83	-

Mass flow in kg/h

30	266	328	400	482	576	683	805	944	-
35	262	324	396	478	573	681	803	942	-
40	256	318	390	473	568	675	798	936	-
45	-	311	383	466	560	668	790	928	-
50	-	-	374	456	550	657	779	917	-
55	-	-	-	445	538	645	766	903	-
60	-	-	-	-	524	629	749	885	-
65	-	-	-	-	-	612	730	865	-

Coefficient of performance (C.O.P.)

30	2.00	2.48	3.04	3.67	4.39	5.20	6.10	7.09	-
35	1.68	2.10	2.59	3.15	3.78	4.49	5.29	6.17	-
40	1.39	1.76	2.18	2.66	3.21	3.84	4.53	5.31	-
45	-	1.45	1.81	2.22	2.69	3.23	3.84	4.51	-
50	-	-	1.47	1.82	2.22	2.68	3.19	3.77	-
55	-	-	-	1.46	1.79	2.18	2.61	3.10	-
60	-	-	-	-	1.42	1.73	2.09	2.50	-
65	-	-	-	-	-	1.33	1.62	1.95	-

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

Cooling capacity	32 060	W
Power input	10 040	W
Current consumption	14.77	A
Mass flow	779	kg/h
C.O.P.	3.19	

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

Sound power data

Sound power level	78	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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Performance data at 60 Hz, ARI rating conditions

R410A

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

Cooling capacity in W

30	13 790	17 215	21 219	25 880	31 273	37 476	44 567	52 623	-
35	12 951	16 267	20 130	24 616	29 803	35 768	42 588	50 340	-
40	12 042	15 228	18 929	23 221	28 181	33 886	40 413	47 840	-
45	-	14 118	17 635	21 712	26 424	31 848	38 063	45 145	-
50	-	-	16 269	20 109	24 552	29 675	35 556	42 271	-
55	-	-	-	18 431	22 584	27 385	32 911	39 240	-
60	-	-	-	-	20 540	24 998	30 149	36 069	-
65	-	-	-	-	-	22 533	27 288	32 779	-

Power input in W

30	6 390	6 434	6 486	6 548	6 621	6 706	6 805	6 918	-
35	7 087	7 122	7 165	7 219	7 285	7 363	7 455	7 562	-
40	7 892	7 914	7 946	7 988	8 043	8 111	8 193	8 292	-
45	-	8 836	8 853	8 881	8 922	8 977	9 046	9 132	-
50	-	-	9 913	9 924	9 948	9 986	10 040	10 110	-
55	-	-	-	11 143	11 146	11 165	11 200	11 252	-
60	-	-	-	-	12 544	12 540	12 553	12 583	-
65	-	-	-	-	-	14 137	14 124	14 130	-

Current consumption in A

30	10.67	10.78	10.86	10.93	10.99	11.03	11.06	11.08	-
35	11.43	11.54	11.63	11.70	11.76	11.80	11.84	11.86	-
40	12.26	12.37	12.46	12.53	12.59	12.64	12.68	12.71	-
45	-	13.33	13.42	13.49	13.55	13.60	13.64	13.67	-
50	-	-	14.57	14.64	14.69	14.74	14.77	14.80	-
55	-	-	-	16.02	16.07	16.11	16.14	16.17	-
60	-	-	-	-	17.74	17.78	17.81	17.82	-
65	-	-	-	-	-	19.80	19.82	19.83	-

Mass flow in kg/h

30	265	326	397	479	572	679	800	937	-
35	260	322	394	475	569	676	798	935	-
40	254	317	388	470	564	671	792	930	-
45	-	310	381	463	556	663	784	922	-
50	-	-	372	453	547	653	774	910	-
55	-	-	-	442	535	640	760	896	-
60	-	-	-	-	521	625	744	879	-
65	-	-	-	-	-	608	725	859	-

Coefficient of performance (C.O.P.)

30	2.16	2.68	3.27	3.95	4.72	5.59	6.55	7.61	-
35	1.83	2.28	2.81	3.41	4.09	4.86	5.71	6.66	-
40	1.53	1.92	2.38	2.91	3.50	4.18	4.93	5.77	-
45	-	1.60	1.99	2.44	2.96	3.55	4.21	4.94	-
50	-	-	1.64	2.03	2.47	2.97	3.54	4.18	-
55	-	-	-	1.65	2.03	2.45	2.94	3.49	-
60	-	-	-	-	1.64	1.99	2.40	2.87	-
65	-	-	-	-	-	1.59	1.93	2.32	-

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

Cooling capacity	35 937	W
Power input	11 073	W
Current consumption	15.98	A
Mass flow	820	kg/h
C.O.P.	3.25	

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

Sound power data

Sound power level	78	dB(A)
With acoustic hood	0	dB(A)

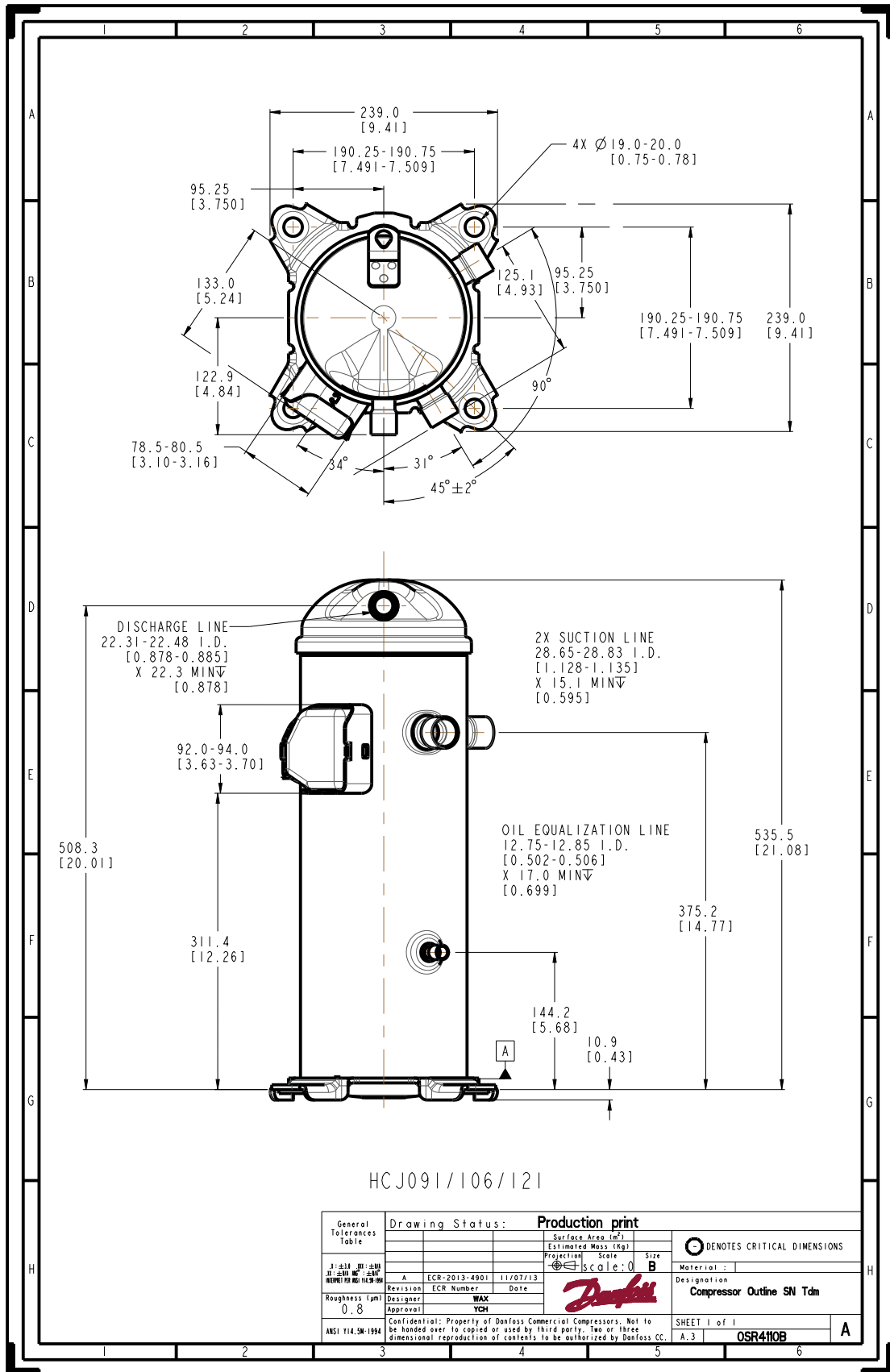
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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