

Datasheets

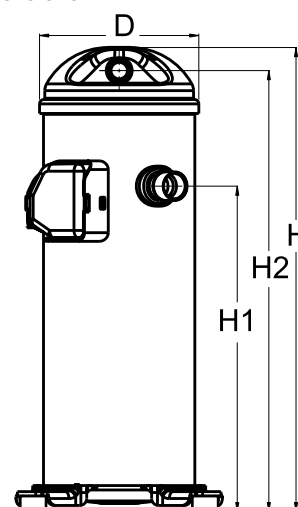
# Danfoss scroll compressors **H series**



**General Characteristics**

Model number (on compressor nameplate)		<b>HCJ106T4LC6</b>
Code number for Singlepack*		121L3115
Code number for Industrial pack**		121L3114
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		101.6 cm <sup>3</sup> /rev
Displacement @ Nominal speed		17.7 m <sup>3</sup> /h @ 2900 rpm - 21.3 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**

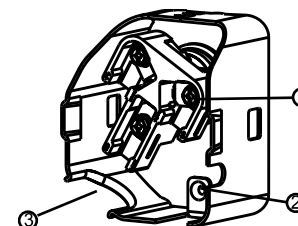


D=184 mm  
H=565 mm  
H1=404.7 mm  
H2=537.8 mm  
H3=- mm

**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)	18.6 A
Maximum Continuous Current (MCC)	26 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.**

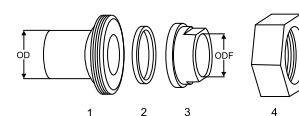
Discharge thermostat kit	7750009
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**Spare parts**

**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	9 548	11 832	14 508	17 629	21 247	25 414	30 184	35 608	-
35	8 901	11 100	13 671	16 664	20 133	24 129	28 705	33 914	-
40	8 195	10 292	12 738	15 585	18 886	22 692	27 055	32 027	-
45	-	9 421	11 724	14 407	17 520	21 116	25 246	29 962	-
50	-	-	10 644	13 142	16 048	19 413	23 289	27 725	-
55	-	-	-	11 800	14 477	17 588	21 185	25 317	-
60	-	-	-	-	12 801	15 632	18 920	22 716	-
65	-	-	-	-	-	13 498	16 435	19 847	-

**Power input in W**

30	4 751	4 766	4 767	4 773	4 805	4 883	5 029	5 263	-
35	5 226	5 258	5 259	5 251	5 255	5 290	5 377	5 537	-
40	5 764	5 823	5 838	5 828	5 815	5 818	5 859	5 958	-
45	-	6 471	6 511	6 512	6 494	6 478	6 484	6 534	-
50	-	-	7 289	7 312	7 301	7 278	7 262	7 274	-
55	-	-	-	8 237	8 246	8 227	8 201	8 189	-
60	-	-	-	-	9 339	9 336	9 312	9 286	-
65	-	-	-	-	-	10 614	10 603	10 576	-

**Current consumption in A**

30	9.99	10.06	10.11	10.14	10.15	10.15	10.12	10.08	-
35	10.64	10.70	10.76	10.80	10.83	10.86	10.87	10.87	-
40	11.33	11.37	11.42	11.46	11.50	11.53	11.57	11.60	-
45	-	12.16	12.18	12.20	12.23	12.27	12.31	12.36	-
50	-	-	13.14	13.13	13.14	13.17	13.20	13.25	-
55	-	-	-	14.34	14.31	14.31	14.32	14.36	-
60	-	-	-	-	15.84	15.79	15.77	15.79	-
65	-	-	-	-	-	17.71	17.65	17.62	-

**Mass flow in kg/h**

30	199	243	295	353	421	498	586	685	-
35	195	240	292	351	419	496	585	685	-
40	191	235	287	346	415	492	581	681	-
45	-	229	281	340	408	486	575	675	-
50	-	-	273	332	400	478	566	666	-
55	-	-	-	322	390	467	555	654	-
60	-	-	-	-	377	453	541	640	-
65	-	-	-	-	-	438	524	622	-

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

30	2.01	2.48	3.04	3.69	4.42	5.20	6.00	6.77	-
35	1.70	2.11	2.60	3.17	3.83	4.56	5.34	6.12	-
40	1.42	1.77	2.18	2.67	3.25	3.90	4.62	5.38	-
45	-	1.46	1.80	2.21	2.70	3.26	3.89	4.59	-
50	-	-	1.46	1.80	2.20	2.67	3.21	3.81	-
55	-	-	-	1.43	1.76	2.14	2.58	3.09	-
60	-	-	-	-	1.37	1.67	2.03	2.45	-
65	-	-	-	-	-	1.27	1.55	1.88	-

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

Cooling capacity	23 289	W
Power input	7 262	W
Current consumption	13.20	A
Mass flow	566	kg/h
C.O.P.	3.21	

**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	10 311	12 764	15 636	18 981	22 856	27 315	32 415	38 210	-
35	9 675	12 051	14 825	18 052	21 788	26 087	31 007	36 602	-
40	8 978	11 259	13 916	17 007	20 585	24 707	29 428	34 804	-
45	-	10 404	12 927	15 863	19 266	23 192	27 696	32 835	-
50	-	-	11 875	14 638	17 847	21 559	25 828	30 711	-
55	-	-	-	13 348	16 345	19 825	23 841	28 449	-
60	-	-	-	-	14 778	18 007	21 751	26 068	-
65	-	-	-	-	-	16 122	19 577	23 583	-

Power input in W

30	4 751	4 766	4 767	4 773	4 805	4 883	5 029	5 263	-
35	5 226	5 258	5 259	5 251	5 255	5 290	5 377	5 537	-
40	5 764	5 823	5 838	5 828	5 815	5 818	5 859	5 958	-
45	-	6 471	6 511	6 512	6 494	6 478	6 484	6 534	-
50	-	-	7 289	7 312	7 301	7 278	7 262	7 274	-
55	-	-	-	8 237	8 246	8 227	8 201	8 189	-
60	-	-	-	-	9 339	9 336	9 312	9 286	-
65	-	-	-	-	-	10 614	10 603	10 576	-

Current consumption in A

30	9.99	10.06	10.11	10.14	10.15	10.15	10.12	10.08	-
35	10.64	10.70	10.76	10.80	10.83	10.86	10.87	10.87	-
40	11.33	11.37	11.42	11.46	11.50	11.53	11.57	11.60	-
45	-	12.16	12.18	12.20	12.23	12.27	12.31	12.36	-
50	-	-	13.14	13.13	13.14	13.17	13.20	13.25	-
55	-	-	-	14.34	14.31	14.31	14.32	14.36	-
60	-	-	-	-	15.84	15.79	15.77	15.79	-
65	-	-	-	-	-	17.71	17.65	17.62	-

Mass flow in kg/h

30	198	242	293	351	418	495	582	680	-
35	194	239	290	349	416	493	581	680	-
40	190	234	285	344	412	489	577	676	-
45	-	228	279	338	406	483	571	670	-
50	-	-	272	330	397	474	562	661	-
55	-	-	-	320	387	464	551	650	-
60	-	-	-	-	375	450	537	635	-
65	-	-	-	-	-	435	520	618	-

Coefficient of performance (C.O.P.)

30	2.17	2.68	3.28	3.98	4.76	5.59	6.45	7.26	-
35	1.85	2.29	2.82	3.44	4.15	4.93	5.77	6.61	-
40	1.56	1.93	2.38	2.92	3.54	4.25	5.02	5.84	-
45	-	1.61	1.99	2.44	2.97	3.58	4.27	5.03	-
50	-	-	1.63	2.00	2.44	2.96	3.56	4.22	-
55	-	-	-	1.62	1.98	2.41	2.91	3.47	-
60	-	-	-	-	1.58	1.93	2.34	2.81	-
65	-	-	-	-	-	1.52	1.85	2.23	-

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

Cooling capacity	26 051	W
Power input	8 072	W
Current consumption	14.19	A
Mass flow	594	kg/h
C.O.P.	3.23	

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	11 252	14 065	17 358	21 194	25 637	30 752	36 604	43 257	-
35	10 493	13 200	16 357	20 027	24 276	29 166	34 761	41 127	-
40	9 676	12 258	15 261	18 748	22 782	27 428	32 748	38 807	-
45	-	11 255	14 084	17 368	21 169	25 550	30 575	36 306	-
50	-	-	12 839	15 900	19 447	23 543	28 250	33 630	-
55	-	-	-	14 349	17 619	21 406	25 770	30 773	-
60	-	-	-	-	15 675	19 123	23 112	27 703	-
65	-	-	-	-	-	16 629	20 195	24 320	-

**Power input in W**

30	5 613	5 672	5 729	5 791	5 859	5 938	6 033	6 147	-
35	6 194	6 248	6 300	6 354	6 413	6 481	6 563	6 663	-
40	6 870	6 919	6 964	7 009	7 058	7 114	7 182	7 266	-
45	-	7 707	7 743	7 778	7 815	7 858	7 910	7 977	-
50	-	-	8 659	8 683	8 707	8 735	8 771	8 819	-
55	-	-	-	9 745	9 755	9 767	9 785	9 814	-
60	-	-	-	-	10 982	10 976	10 976	10 984	-
65	-	-	-	-	-	12 385	12 364	12 350	-

**Current consumption in A**

30	9.59	9.67	9.74	9.81	9.88	9.96	10.04	10.13	-
35	10.30	10.38	10.46	10.53	10.60	10.67	10.75	10.83	-
40	11.05	11.13	11.21	11.28	11.35	11.41	11.48	11.55	-
45	-	11.99	12.06	12.13	12.19	12.25	12.31	12.37	-
50	-	-	13.08	13.14	13.19	13.24	13.29	13.33	-
55	-	-	-	14.38	14.42	14.46	14.49	14.51	-
60	-	-	-	-	15.93	15.95	15.97	15.97	-
65	-	-	-	-	-	17.80	17.79	17.78	-

**Mass flow in kg/h**

30	235	289	352	425	508	603	710	832	-
35	230	286	349	422	505	600	708	830	-
40	225	280	344	417	500	595	703	825	-
45	-	274	337	410	493	588	696	818	-
50	-	-	330	402	485	579	687	808	-
55	-	-	-	392	474	568	675	795	-
60	-	-	-	-	462	555	660	780	-
65	-	-	-	-	-	539	644	762	-

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

30	2.00	2.48	3.03	3.66	4.38	5.18	6.07	7.04	-
35	1.69	2.11	2.60	3.15	3.79	4.50	5.30	6.17	-
40	1.41	1.77	2.19	2.67	3.23	3.86	4.56	5.34	-
45	-	1.46	1.82	2.23	2.71	3.25	3.87	4.55	-
50	-	-	1.48	1.83	2.23	2.70	3.22	3.81	-
55	-	-	-	1.47	1.81	2.19	2.63	3.14	-
60	-	-	-	-	1.43	1.74	2.11	2.52	-
65	-	-	-	-	-	1.34	1.63	1.97	-

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

Cooling capacity	28 250	W
Power input	8 771	W
Current consumption	13.29	A
Mass flow	687	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	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	12 151	15 173	18 707	22 819	27 578	33 052	39 309	46 418	-
35	11 405	14 331	17 738	21 695	26 271	31 532	37 548	44 387	-
40	10 600	13 410	16 673	20 458	24 832	29 864	35 621	42 171	-
45	-	12 428	15 530	19 124	23 279	28 062	33 542	39 787	-
50	-	-	14 324	17 710	21 627	26 145	31 330	37 252	-
55	-	-	-	16 231	19 894	24 128	29 001	34 581	-
60	-	-	-	-	18 096	22 028	26 570	31 791	-
65	-	-	-	-	-	19 861	24 055	28 898	-

**Power input in W**

30	5 613	5 672	5 729	5 791	5 859	5 938	6 033	6 147	-
35	6 194	6 248	6 300	6 354	6 413	6 481	6 563	6 663	-
40	6 870	6 919	6 964	7 009	7 058	7 114	7 182	7 266	-
45	-	7 707	7 743	7 778	7 815	7 858	7 910	7 977	-
50	-	-	8 659	8 683	8 707	8 735	8 771	8 819	-
55	-	-	-	9 745	9 755	9 767	9 785	9 814	-
60	-	-	-	-	10 982	10 976	10 976	10 984	-
65	-	-	-	-	-	12 385	12 364	12 350	-

**Current consumption in A**

30	9.59	9.67	9.74	9.81	9.88	9.96	10.04	10.13	-
35	10.30	10.38	10.46	10.53	10.60	10.67	10.75	10.83	-
40	11.05	11.13	11.21	11.28	11.35	11.41	11.48	11.55	-
45	-	11.99	12.06	12.13	12.19	12.25	12.31	12.37	-
50	-	-	13.08	13.14	13.19	13.24	13.29	13.33	-
55	-	-	-	14.38	14.42	14.46	14.49	14.51	-
60	-	-	-	-	15.93	15.95	15.97	15.97	-
65	-	-	-	-	-	17.80	17.79	17.78	-

**Mass flow in kg/h**

30	233	288	350	422	505	599	706	826	-
35	229	284	347	419	502	596	703	824	-
40	224	279	342	414	497	591	698	819	-
45	-	272	335	408	490	584	691	812	-
50	-	-	328	399	482	575	682	802	-
55	-	-	-	389	471	564	670	790	-
60	-	-	-	-	459	551	656	775	-
65	-	-	-	-	-	535	639	757	-

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

30	2.16	2.68	3.27	3.94	4.71	5.57	6.52	7.55	-
35	1.84	2.29	2.82	3.41	4.10	4.87	5.72	6.66	-
40	1.54	1.94	2.39	2.92	3.52	4.20	4.96	5.80	-
45	-	1.61	2.01	2.46	2.98	3.57	4.24	4.99	-
50	-	-	1.65	2.04	2.48	2.99	3.57	4.22	-
55	-	-	-	1.67	2.04	2.47	2.96	3.52	-
60	-	-	-	-	1.65	2.01	2.42	2.89	-
65	-	-	-	-	-	1.60	1.95	2.34	-

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

Cooling capacity	31 668	W
Power input	9 667	W
Current consumption	14.34	A
Mass flow	723	kg/h
C.O.P.	3.28	

**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)

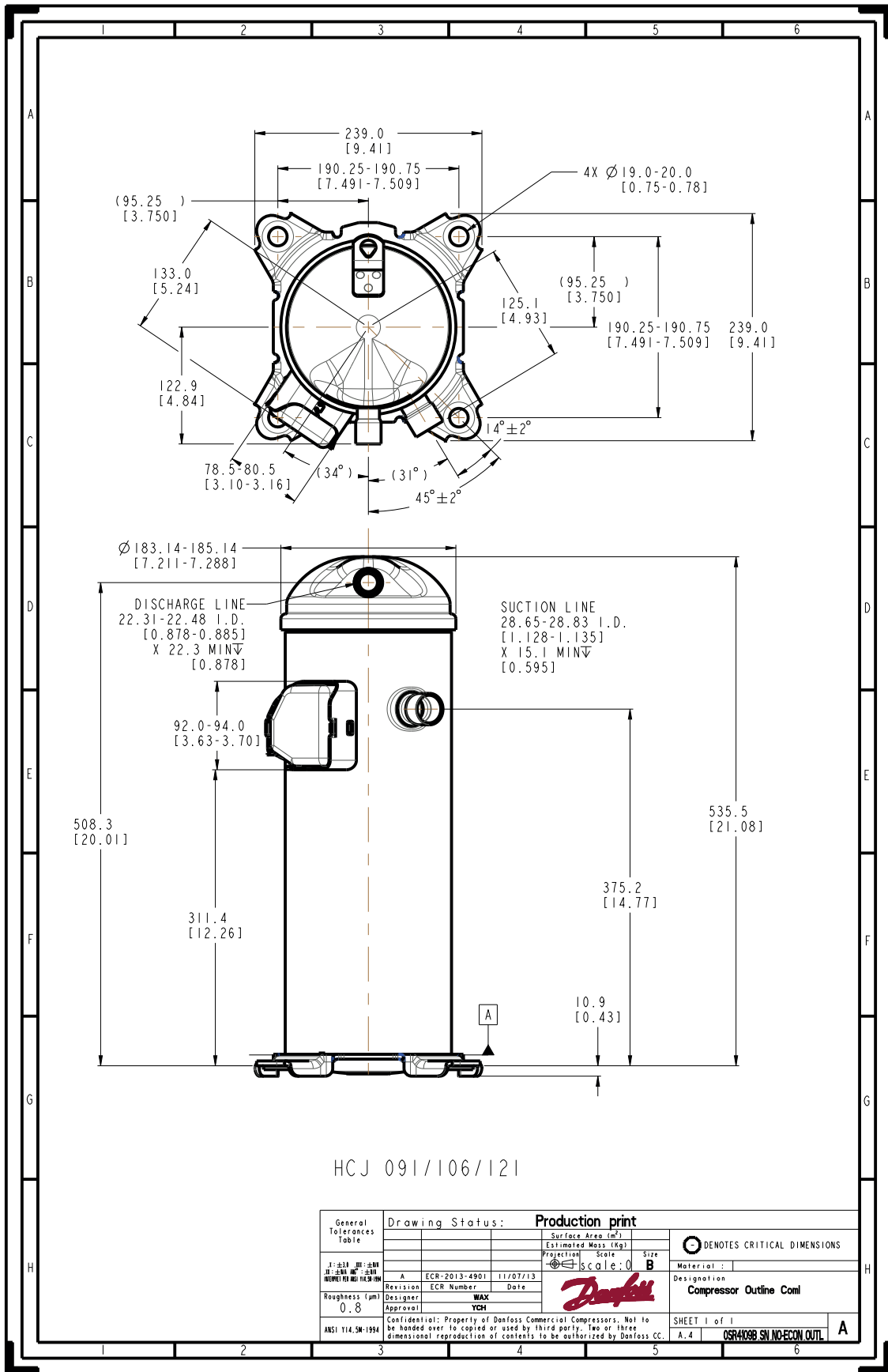
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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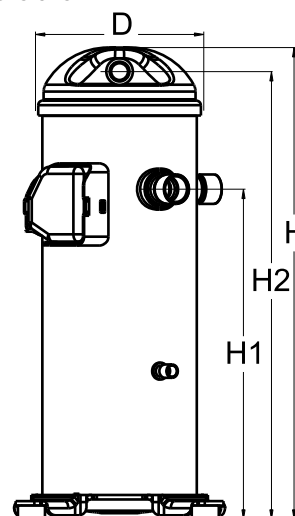
General Tolerances Table	Drawing Status: <b>Production print</b>			Surface Area (m <sup>2</sup> )	Scale	Size <b>B</b>	Material:
				Estimated Mass (kg)			
J1: ±0.10 J2: ±0.05 J3: ±0.03 J4: ±0.02 J5: ±0.01	Revision	ECR Number	Date			Compressor Outline Coml	
Roughness (µm)	Designer	Approver				SHEET 1 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.						



**General Characteristics**

Model number (on compressor nameplate)		<b>HCJ106T4LC8</b>
Code number for Singlepack*		121L3121
Code number for Industrial pack**		121L3120
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		101.6 cm <sup>3</sup> /rev
Displacement @ Nominal speed		17.7 m <sup>3</sup> /h @ 2900 rpm - 21.3 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**

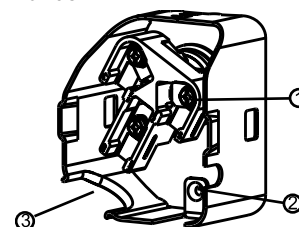


D=184 mm  
H=565 mm  
H1=404.7 mm  
H2=537.8 mm  
H3=- mm

**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)	18.6 A
Maximum Continuous Current (MCC)	26 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.**

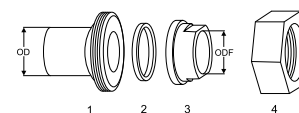
Discharge thermostat kit	7750009
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**Spare parts**

**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	9 548	11 832	14 508	17 629	21 247	25 414	30 184	35 608	-
35	8 901	11 100	13 671	16 664	20 133	24 129	28 705	33 914	-
40	8 195	10 292	12 738	15 585	18 886	22 692	27 055	32 027	-
45	-	9 421	11 724	14 407	17 520	21 116	25 246	29 962	-
50	-	-	10 644	13 142	16 048	19 413	23 289	27 725	-
55	-	-	-	11 800	14 477	17 588	21 185	25 317	-
60	-	-	-	-	12 801	15 632	18 920	22 716	-
65	-	-	-	-	-	13 498	16 435	19 847	-

**Power input in W**

30	4 751	4 766	4 767	4 773	4 805	4 883	5 029	5 263	-
35	5 226	5 258	5 259	5 251	5 255	5 290	5 377	5 537	-
40	5 764	5 823	5 838	5 828	5 815	5 818	5 859	5 958	-
45	-	6 471	6 511	6 512	6 494	6 478	6 484	6 534	-
50	-	-	7 289	7 312	7 301	7 278	7 262	7 274	-
55	-	-	-	8 237	8 246	8 227	8 201	8 189	-
60	-	-	-	-	9 339	9 336	9 312	9 286	-
65	-	-	-	-	-	10 614	10 603	10 576	-

**Current consumption in A**

30	9.99	10.06	10.11	10.14	10.15	10.15	10.12	10.08	-
35	10.64	10.70	10.76	10.80	10.83	10.86	10.87	10.87	-
40	11.33	11.37	11.42	11.46	11.50	11.53	11.57	11.60	-
45	-	12.16	12.18	12.20	12.23	12.27	12.31	12.36	-
50	-	-	13.14	13.13	13.14	13.17	13.20	13.25	-
55	-	-	-	14.34	14.31	14.31	14.32	14.36	-
60	-	-	-	-	15.84	15.79	15.77	15.79	-
65	-	-	-	-	-	17.71	17.65	17.62	-

**Mass flow in kg/h**

30	199	243	295	353	421	498	586	685	-
35	195	240	292	351	419	496	585	685	-
40	191	235	287	346	415	492	581	681	-
45	-	229	281	340	408	486	575	675	-
50	-	-	273	332	400	478	566	666	-
55	-	-	-	322	390	467	555	654	-
60	-	-	-	-	377	453	541	640	-
65	-	-	-	-	-	438	524	622	-

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

30	2.01	2.48	3.04	3.69	4.42	5.20	6.00	6.77	-
35	1.70	2.11	2.60	3.17	3.83	4.56	5.34	6.12	-
40	1.42	1.77	2.18	2.67	3.25	3.90	4.62	5.38	-
45	-	1.46	1.80	2.21	2.70	3.26	3.89	4.59	-
50	-	-	1.46	1.80	2.20	2.67	3.21	3.81	-
55	-	-	-	1.43	1.76	2.14	2.58	3.09	-
60	-	-	-	-	1.37	1.67	2.03	2.45	-
65	-	-	-	-	-	1.27	1.55	1.88	-

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

Cooling capacity	23 289	W
Power input	7 262	W
Current consumption	13.20	A
Mass flow	566	kg/h
C.O.P.	3.21	

**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	10 311	12 764	15 636	18 981	22 856	27 315	32 415	38 210	-
35	9 675	12 051	14 825	18 052	21 788	26 087	31 007	36 602	-
40	8 978	11 259	13 916	17 007	20 585	24 707	29 428	34 804	-
45	-	10 404	12 927	15 863	19 266	23 192	27 696	32 835	-
50	-	-	11 875	14 638	17 847	21 559	25 828	30 711	-
55	-	-	-	13 348	16 345	19 825	23 841	28 449	-
60	-	-	-	-	14 778	18 007	21 751	26 068	-
65	-	-	-	-	-	16 122	19 577	23 583	-

Power input in W

30	4 751	4 766	4 767	4 773	4 805	4 883	5 029	5 263	-
35	5 226	5 258	5 259	5 251	5 255	5 290	5 377	5 537	-
40	5 764	5 823	5 838	5 828	5 815	5 818	5 859	5 958	-
45	-	6 471	6 511	6 512	6 494	6 478	6 484	6 534	-
50	-	-	7 289	7 312	7 301	7 278	7 262	7 274	-
55	-	-	-	8 237	8 246	8 227	8 201	8 189	-
60	-	-	-	-	9 339	9 336	9 312	9 286	-
65	-	-	-	-	-	10 614	10 603	10 576	-

Current consumption in A

30	9.99	10.06	10.11	10.14	10.15	10.15	10.12	10.08	-
35	10.64	10.70	10.76	10.80	10.83	10.86	10.87	10.87	-
40	11.33	11.37	11.42	11.46	11.50	11.53	11.57	11.60	-
45	-	12.16	12.18	12.20	12.23	12.27	12.31	12.36	-
50	-	-	13.14	13.13	13.14	13.17	13.20	13.25	-
55	-	-	-	14.34	14.31	14.31	14.32	14.36	-
60	-	-	-	-	15.84	15.79	15.77	15.79	-
65	-	-	-	-	-	17.71	17.65	17.62	-

Mass flow in kg/h

30	198	242	293	351	418	495	582	680	-
35	194	239	290	349	416	493	581	680	-
40	190	234	285	344	412	489	577	676	-
45	-	228	279	338	406	483	571	670	-
50	-	-	272	330	397	474	562	661	-
55	-	-	-	320	387	464	551	650	-
60	-	-	-	-	375	450	537	635	-
65	-	-	-	-	-	435	520	618	-

Coefficient of performance (C.O.P.)

30	2.17	2.68	3.28	3.98	4.76	5.59	6.45	7.26	-
35	1.85	2.29	2.82	3.44	4.15	4.93	5.77	6.61	-
40	1.56	1.93	2.38	2.92	3.54	4.25	5.02	5.84	-
45	-	1.61	1.99	2.44	2.97	3.58	4.27	5.03	-
50	-	-	1.63	2.00	2.44	2.96	3.56	4.22	-
55	-	-	-	1.62	1.98	2.41	2.91	3.47	-
60	-	-	-	-	1.58	1.93	2.34	2.81	-
65	-	-	-	-	-	1.52	1.85	2.23	-

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

Cooling capacity	26 051	W
Power input	8 072	W
Current consumption	14.19	A
Mass flow	594	kg/h
C.O.P.	3.23	

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	11 252	14 065	17 358	21 194	25 637	30 752	36 604	43 257	-
35	10 493	13 200	16 357	20 027	24 276	29 166	34 761	41 127	-
40	9 676	12 258	15 261	18 748	22 782	27 428	32 748	38 807	-
45	-	11 255	14 084	17 368	21 169	25 550	30 575	36 306	-
50	-	-	12 839	15 900	19 447	23 543	28 250	33 630	-
55	-	-	-	14 349	17 619	21 406	25 770	30 773	-
60	-	-	-	-	15 675	19 123	23 112	27 703	-
65	-	-	-	-	-	16 629	20 195	24 320	-

**Power input in W**

30	5 613	5 672	5 729	5 791	5 859	5 938	6 033	6 147	-
35	6 194	6 248	6 300	6 354	6 413	6 481	6 563	6 663	-
40	6 870	6 919	6 964	7 009	7 058	7 114	7 182	7 266	-
45	-	7 707	7 743	7 778	7 815	7 858	7 910	7 977	-
50	-	-	8 659	8 683	8 707	8 735	8 771	8 819	-
55	-	-	-	9 745	9 755	9 767	9 785	9 814	-
60	-	-	-	-	10 982	10 976	10 976	10 984	-
65	-	-	-	-	-	12 385	12 364	12 350	-

**Current consumption in A**

30	9.59	9.67	9.74	9.81	9.88	9.96	10.04	10.13	-
35	10.30	10.38	10.46	10.53	10.60	10.67	10.75	10.83	-
40	11.05	11.13	11.21	11.28	11.35	11.41	11.48	11.55	-
45	-	11.99	12.06	12.13	12.19	12.25	12.31	12.37	-
50	-	-	13.08	13.14	13.19	13.24	13.29	13.33	-
55	-	-	-	14.38	14.42	14.46	14.49	14.51	-
60	-	-	-	-	15.93	15.95	15.97	15.97	-
65	-	-	-	-	-	17.80	17.79	17.78	-

**Mass flow in kg/h**

30	235	289	352	425	508	603	710	832	-
35	230	286	349	422	505	600	708	830	-
40	225	280	344	417	500	595	703	825	-
45	-	274	337	410	493	588	696	818	-
50	-	-	330	402	485	579	687	808	-
55	-	-	-	392	474	568	675	795	-
60	-	-	-	-	462	555	660	780	-
65	-	-	-	-	-	539	644	762	-

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

30	2.00	2.48	3.03	3.66	4.38	5.18	6.07	7.04	-
35	1.69	2.11	2.60	3.15	3.79	4.50	5.30	6.17	-
40	1.41	1.77	2.19	2.67	3.23	3.86	4.56	5.34	-
45	-	1.46	1.82	2.23	2.71	3.25	3.87	4.55	-
50	-	-	1.48	1.83	2.23	2.70	3.22	3.81	-
55	-	-	-	1.47	1.81	2.19	2.63	3.14	-
60	-	-	-	-	1.43	1.74	2.11	2.52	-
65	-	-	-	-	-	1.34	1.63	1.97	-

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

Cooling capacity	28 250	W
Power input	8 771	W
Current consumption	13.29	A
Mass flow	687	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	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	12 151	15 173	18 707	22 819	27 578	33 052	39 309	46 418	-
35	11 405	14 331	17 738	21 695	26 271	31 532	37 548	44 387	-
40	10 600	13 410	16 673	20 458	24 832	29 864	35 621	42 171	-
45	-	12 428	15 530	19 124	23 279	28 062	33 542	39 787	-
50	-	-	14 324	17 710	21 627	26 145	31 330	37 252	-
55	-	-	-	16 231	19 894	24 128	29 001	34 581	-
60	-	-	-	-	18 096	22 028	26 570	31 791	-
65	-	-	-	-	-	19 861	24 055	28 898	-

**Power input in W**

30	5 613	5 672	5 729	5 791	5 859	5 938	6 033	6 147	-
35	6 194	6 248	6 300	6 354	6 413	6 481	6 563	6 663	-
40	6 870	6 919	6 964	7 009	7 058	7 114	7 182	7 266	-
45	-	7 707	7 743	7 778	7 815	7 858	7 910	7 977	-
50	-	-	8 659	8 683	8 707	8 735	8 771	8 819	-
55	-	-	-	9 745	9 755	9 767	9 785	9 814	-
60	-	-	-	-	10 982	10 976	10 976	10 984	-
65	-	-	-	-	-	12 385	12 364	12 350	-

**Current consumption in A**

30	9.59	9.67	9.74	9.81	9.88	9.96	10.04	10.13	-
35	10.30	10.38	10.46	10.53	10.60	10.67	10.75	10.83	-
40	11.05	11.13	11.21	11.28	11.35	11.41	11.48	11.55	-
45	-	11.99	12.06	12.13	12.19	12.25	12.31	12.37	-
50	-	-	13.08	13.14	13.19	13.24	13.29	13.33	-
55	-	-	-	14.38	14.42	14.46	14.49	14.51	-
60	-	-	-	-	15.93	15.95	15.97	15.97	-
65	-	-	-	-	-	17.80	17.79	17.78	-

**Mass flow in kg/h**

30	233	288	350	422	505	599	706	826	-
35	229	284	347	419	502	596	703	824	-
40	224	279	342	414	497	591	698	819	-
45	-	272	335	408	490	584	691	812	-
50	-	-	328	399	482	575	682	802	-
55	-	-	-	389	471	564	670	790	-
60	-	-	-	-	459	551	656	775	-
65	-	-	-	-	-	535	639	757	-

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

30	2.16	2.68	3.27	3.94	4.71	5.57	6.52	7.55	-
35	1.84	2.29	2.82	3.41	4.10	4.87	5.72	6.66	-
40	1.54	1.94	2.39	2.92	3.52	4.20	4.96	5.80	-
45	-	1.61	2.01	2.46	2.98	3.57	4.24	4.99	-
50	-	-	1.65	2.04	2.48	2.99	3.57	4.22	-
55	-	-	-	1.67	2.04	2.47	2.96	3.52	-
60	-	-	-	-	1.65	2.01	2.42	2.89	-
65	-	-	-	-	-	1.60	1.95	2.34	-

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

Cooling capacity	31 668	W
Power input	9 667	W
Current consumption	14.34	A
Mass flow	723	kg/h
C.O.P.	3.28	

**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)

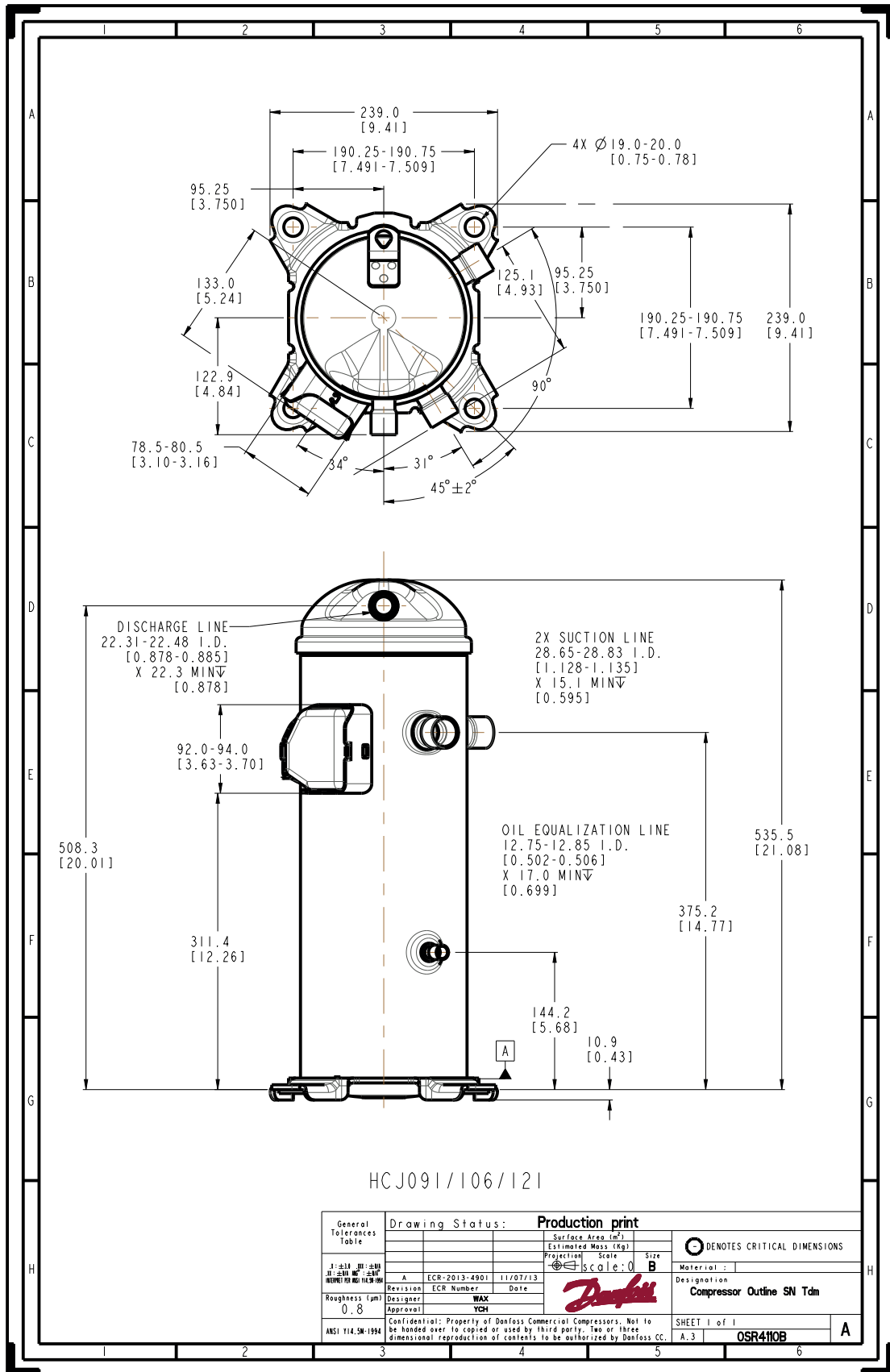
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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