

ENGINEERING
TOMORROW

Danfoss

Datasheets

Danfoss scroll compressors **H series**



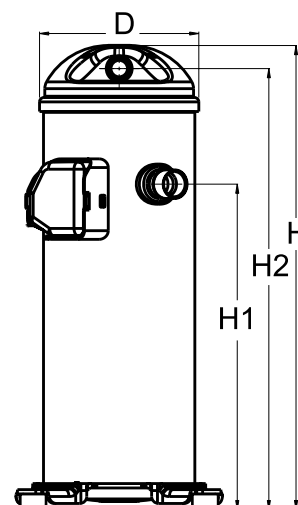
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www.danfoss.com/odsg

General Characteristics

Model number (on compressor nameplate)		HLH068T4LC6
Code number for Singlepack*		120U1391
Code number for Industrial pack**		120U1388
Drawing number		0XR6089B-1
Suction and discharge connections		Brazed
Suction connection		7/8 " ODF
Discharge connection		1/2 " ODF
Oil sight glass		None
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		Yes
Swept volume		64.4 cm3/rev
Displacement @ Nominal speed		11.2 m3/h @ 2900 rpm - 13.5 m3/h @ 3500 rpm
Net weight		37.2 kg
Oil charge		1.57 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		5.44 kg
Approved refrigerants		R410A

Dimensions



D=183.5 mm

H=455 mm

H1=280 mm

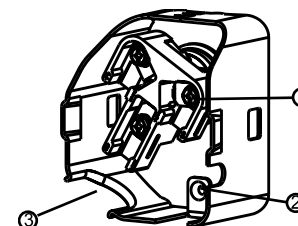
H2=422 mm

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	2.116 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	2.088 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	2.072 Ω
Rated Load Amps (RLA)	12.2 A
Maximum Continuous Current (MCC)	19 A
Locked Rotor Amps (LRA)	87 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.

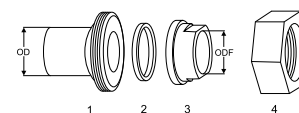
Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-1/4"	8156131

Rotolock accessories, discharge side

Code no.

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Angle adapter, C06 (1" Rotolock, 1/2" ODF)	8168007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

Solder sleeve adapter set



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

Rotolock accessories, sets

Code no.

Solder sleeve adapter set (1-1/4" Rotolock, 7/8" ODF), (1" Rotolock, 1/2" ODF)	120Z0127
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, 50 W, 230 V, CE mark, UL	120Z0057
Belt type crankcase heater, 50 W, 400 V, CE mark, UL	120Z0058

Miscellaneous accessories

Code no.

Acoustic hood	120Z5044
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

R410A

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

Cooling capacity in W

30	5 900	7 432	9 150	11 147	13 515	16 347	19 738	23 782	-
35	5 273	6 890	8 613	10 535	12 747	15 342	18 414	22 055	-
40	4 410	6 171	7 961	9 869	11 988	14 410	17 226	20 530	-
45	-	5 213	7 127	9 082	11 169	13 478	16 102	19 130	-
50	-	-	6 050	8 107	10 219	12 476	14 966	17 781	-
55	-	-	-	6 883	9 072	11 329	13 742	16 399	-
60	-	-	-	-	7 660	9 961	12 343	14 892	-
65	-	-	-	-	-	8 286	10 663	13 132	-

Power input in W

30	3 114	3 157	3 183	3 191	3 176	3 135	3 067	2 966	-
35	3 422	3 474	3 512	3 533	3 534	3 511	3 461	3 382	-
40	3 774	3 832	3 879	3 909	3 922	3 912	3 878	3 815	-
45	-	4 239	4 290	4 326	4 346	4 347	4 324	4 275	-
50	-	-	4 753	4 792	4 816	4 823	4 807	4 768	-
55	-	-	-	5 315	5 339	5 347	5 336	5 302	-
60	-	-	-	-	5 923	5 929	5 918	5 886	-
65	-	-	-	-	-	6 576	6 561	6 527	-

Current consumption in A

30	6.16	6.21	6.25	6.30	6.36	6.43	6.53	6.64	-
35	6.49	6.55	6.60	6.65	6.70	6.76	6.84	6.93	-
40	6.83	6.92	6.98	7.04	7.10	7.16	7.22	7.30	-
45	-	7.33	7.42	7.50	7.56	7.62	7.68	7.75	-
50	-	-	7.91	8.01	8.09	8.17	8.23	8.29	-
55	-	-	-	8.59	8.70	8.79	8.87	8.94	-
60	-	-	-	-	9.40	9.51	9.61	9.69	-
65	-	-	-	-	-	10.33	10.45	10.56	-

Mass flow in kg/h

30	123	153	186	223	268	321	385	461	-
35	116	149	184	222	265	316	375	446	-
40	103	141	179	219	263	312	369	435	-
45	-	127	170	214	260	310	365	429	-
50	-	-	155	204	254	306	362	425	-
55	-	-	-	187	242	298	357	420	-
60	-	-	-	-	224	286	349	414	-
65	-	-	-	-	-	267	335	405	-

Coefficient of performance (C.O.P.)

30	1.89	2.35	2.87	3.49	4.26	5.21	6.44	8.02	-
35	1.54	1.98	2.45	2.98	3.61	4.37	5.32	6.52	-
40	1.17	1.61	2.05	2.52	3.06	3.68	4.44	5.38	-
45	-	1.23	1.66	2.10	2.57	3.10	3.72	4.48	-
50	-	-	1.27	1.69	2.12	2.59	3.11	3.73	-
55	-	-	-	1.29	1.70	2.12	2.58	3.09	-
60	-	-	-	-	1.29	1.68	2.09	2.53	-
65	-	-	-	-	-	1.26	1.63	2.01	-

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

Cooling capacity	14 966	W
Power input	4 807	W
Current consumption	8.23	A
Mass flow	362	kg/h
C.O.P.	3.11	

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	71	dB(A)
With acoustic hood	66	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
R410A

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

Cooling capacity in W

30	6 371	8 018	9 862	12 002	14 538	17 570	21 197	25 520	-
35	5 731	7 480	9 341	11 412	13 795	16 588	19 890	23 803	-
40	4 831	6 751	8 697	10 769	13 067	15 690	18 738	22 309	-
45	-	5 757	7 858	10 000	12 282	14 804	17 665	20 965	-
50	-	-	6 750	9 030	11 365	13 855	16 598	19 696	-
55	-	-	-	7 786	10 243	12 770	15 465	18 428	-
60	-	-	-	-	8 842	11 475	14 190	17 089	-
65	-	-	-	-	-	9 896	12 701	15 604	-

Power input in W

30	3 114	3 157	3 183	3 191	3 176	3 135	3 067	2 966	-
35	3 422	3 474	3 512	3 533	3 534	3 511	3 461	3 382	-
40	3 774	3 832	3 879	3 909	3 922	3 912	3 878	3 815	-
45	-	4 239	4 290	4 326	4 346	4 347	4 324	4 275	-
50	-	-	4 753	4 792	4 816	4 823	4 807	4 768	-
55	-	-	-	5 315	5 339	5 347	5 336	5 302	-
60	-	-	-	-	5 923	5 929	5 918	5 886	-
65	-	-	-	-	-	6 576	6 561	6 527	-

Current consumption in A

30	6.16	6.21	6.25	6.30	6.36	6.43	6.53	6.64	-
35	6.49	6.55	6.60	6.65	6.70	6.76	6.84	6.93	-
40	6.83	6.92	6.98	7.04	7.10	7.16	7.22	7.30	-
45	-	7.33	7.42	7.50	7.56	7.62	7.68	7.75	-
50	-	-	7.91	8.01	8.09	8.17	8.23	8.29	-
55	-	-	-	8.59	8.70	8.79	8.87	8.94	-
60	-	-	-	-	9.40	9.51	9.61	9.69	-
65	-	-	-	-	-	10.33	10.45	10.56	-

Mass flow in kg/h

30	123	152	184	222	266	319	382	458	-
35	115	148	183	221	263	313	372	442	-
40	102	140	178	218	262	310	367	432	-
45	-	126	169	213	258	308	363	426	-
50	-	-	154	203	252	304	359	421	-
55	-	-	-	186	241	296	354	417	-
60	-	-	-	-	223	284	346	411	-
65	-	-	-	-	-	265	333	402	-

Coefficient of performance (C.O.P.)

30	2.05	2.54	3.10	3.76	4.58	5.60	6.91	8.60	-
35	1.67	2.15	2.66	3.23	3.90	4.72	5.75	7.04	-
40	1.28	1.76	2.24	2.75	3.33	4.01	4.83	5.85	-
45	-	1.36	1.83	2.31	2.83	3.41	4.09	4.90	-
50	-	-	1.42	1.88	2.36	2.87	3.45	4.13	-
55	-	-	-	1.46	1.92	2.39	2.90	3.48	-
60	-	-	-	-	1.49	1.94	2.40	2.90	-
65	-	-	-	-	-	1.50	1.94	2.39	-

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

Cooling capacity	16 876	W
Power input	5 258	W
Current consumption	8.82	A
Mass flow	382	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	71	dB(A)
With acoustic hood	66	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

R410A

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

Cooling capacity in W

30	7 001	8 819	10 857	13 226	16 036	19 397	23 420	28 215	-
35	6 263	8 181	10 227	12 509	15 136	18 218	21 864	26 186	-
40	5 246	7 336	9 461	11 728	14 247	17 126	20 472	24 397	-
45	-	6 206	8 480	10 804	13 287	16 035	19 156	22 758	-
50	-	-	7 208	9 656	12 170	14 858	17 824	21 176	-
55	-	-	-	8 208	10 816	13 507	16 384	19 553	-
60	-	-	-	-	9 142	11 888	14 732	17 775	-
65	-	-	-	-	-	9 898	12 739	15 691	-

Power input in W

30	3 728	3 779	3 810	3 819	3 801	3 753	3 671	3 550	-
35	4 096	4 159	4 205	4 230	4 231	4 203	4 143	4 048	-
40	4 518	4 588	4 643	4 680	4 695	4 684	4 642	4 568	-
45	-	5 076	5 136	5 180	5 204	5 204	5 177	5 118	-
50	-	-	5 692	5 739	5 767	5 775	5 757	5 709	-
55	-	-	-	6 365	6 394	6 404	6 391	6 350	-
60	-	-	-	-	7 094	7 101	7 088	7 050	-
65	-	-	-	-	-	7 877	7 859	7 819	-

Current consumption in A

30	6.24	6.29	6.33	6.38	6.44	6.52	6.61	6.73	-
35	6.57	6.63	6.68	6.73	6.79	6.85	6.92	7.02	-
40	6.92	7.01	7.07	7.13	7.19	7.25	7.31	7.39	-
45	-	7.42	7.52	7.59	7.66	7.72	7.78	7.85	-
50	-	-	8.01	8.11	8.20	8.27	8.34	8.40	-
55	-	-	-	8.71	8.82	8.91	8.99	9.06	-
60	-	-	-	-	9.52	9.64	9.73	9.82	-
65	-	-	-	-	-	10.46	10.59	10.69	-

Mass flow in kg/h

30	146	181	220	265	318	381	456	547	-
35	138	177	218	263	315	375	445	529	-
40	122	168	213	261	313	371	439	517	-
45	-	151	203	255	309	368	435	510	-
50	-	-	184	243	302	364	431	506	-
55	-	-	-	223	289	356	426	501	-
60	-	-	-	-	268	341	416	494	-
65	-	-	-	-	-	319	400	484	-

Coefficient of performance (C.O.P.)

30	1.88	2.33	2.85	3.46	4.22	5.17	6.38	7.95	-
35	1.53	1.97	2.43	2.96	3.58	4.33	5.28	6.47	-
40	1.16	1.60	2.04	2.51	3.03	3.66	4.41	5.34	-
45	-	1.22	1.65	2.09	2.55	3.08	3.70	4.45	-
50	-	-	1.27	1.68	2.11	2.57	3.10	3.71	-
55	-	-	-	1.29	1.69	2.11	2.56	3.08	-
60	-	-	-	-	1.29	1.67	2.08	2.52	-
65	-	-	-	-	-	1.26	1.62	2.01	-

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

Cooling capacity	17 824	W
Power input	5 757	W
Current consumption	8.34	A
Mass flow	431	kg/h
C.O.P.	3.10	

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	74	dB(A)
With acoustic 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 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	7 561	9 514	11 701	14 241	17 250	20 847	25 150	30 277	-
35	6 808	8 882	11 090	13 550	16 379	19 696	23 617	28 262	-
40	5 747	8 025	10 336	12 798	15 529	18 647	22 268	26 512	-
45	-	6 854	9 350	11 896	14 611	17 611	21 015	24 940	-
50	-	-	8 042	10 755	13 535	16 500	19 768	23 457	-
55	-	-	-	9 285	12 212	15 224	18 438	21 972	-
60	-	-	-	-	10 554	13 694	16 937	20 398	-
65	-	-	-	-	-	11 822	15 174	18 645	-

Power input in W

30	3 728	3 779	3 810	3 819	3 801	3 753	3 671	3 550	-
35	4 096	4 159	4 205	4 230	4 231	4 203	4 143	4 048	-
40	4 518	4 588	4 643	4 680	4 695	4 684	4 642	4 568	-
45	-	5 076	5 136	5 180	5 204	5 204	5 177	5 118	-
50	-	-	5 692	5 739	5 767	5 775	5 757	5 709	-
55	-	-	-	6 365	6 394	6 404	6 391	6 350	-
60	-	-	-	-	7 094	7 101	7 088	7 050	-
65	-	-	-	-	-	7 877	7 859	7 819	-

Current consumption in A

30	6.24	6.29	6.33	6.38	6.44	6.52	6.61	6.73	-
35	6.57	6.63	6.68	6.73	6.79	6.85	6.92	7.02	-
40	6.92	7.01	7.07	7.13	7.19	7.25	7.31	7.39	-
45	-	7.42	7.52	7.59	7.66	7.72	7.78	7.85	-
50	-	-	8.01	8.11	8.20	8.27	8.34	8.40	-
55	-	-	-	8.71	8.82	8.91	8.99	9.06	-
60	-	-	-	-	9.52	9.64	9.73	9.82	-
65	-	-	-	-	-	10.46	10.59	10.69	-

Mass flow in kg/h

30	145	180	219	263	316	378	453	543	-
35	137	176	217	262	313	372	442	525	-
40	122	167	212	259	311	369	436	514	-
45	-	150	201	253	307	366	432	507	-
50	-	-	183	241	300	362	428	502	-
55	-	-	-	222	287	353	423	497	-
60	-	-	-	-	266	339	413	491	-
65	-	-	-	-	-	316	398	480	-

Coefficient of performance (C.O.P.)

30	2.03	2.52	3.07	3.73	4.54	5.55	6.85	8.53	-
35	1.66	2.14	2.64	3.20	3.87	4.69	5.70	6.98	-
40	1.27	1.75	2.23	2.73	3.31	3.98	4.80	5.80	-
45	-	1.35	1.82	2.30	2.81	3.38	4.06	4.87	-
50	-	-	1.41	1.87	2.35	2.86	3.43	4.11	-
55	-	-	-	1.46	1.91	2.38	2.89	3.46	-
60	-	-	-	-	1.49	1.93	2.39	2.89	-
65	-	-	-	-	-	1.50	1.93	2.38	-

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

Cooling capacity	20 118	W
Power input	6 297	W
Current consumption	8.93	A
Mass flow	455	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	74	dB(A)
With acoustic hood	69	dB(A)

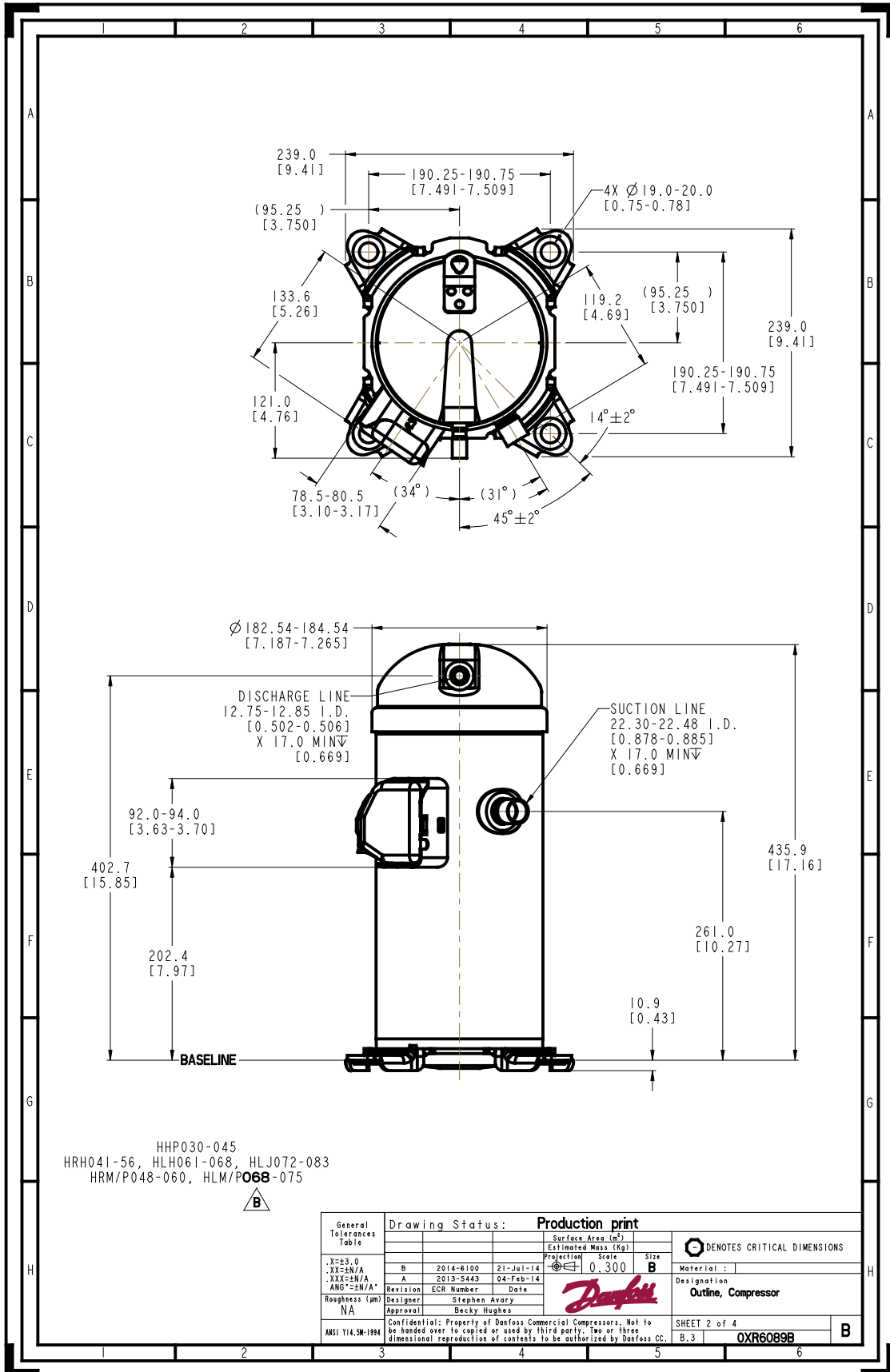
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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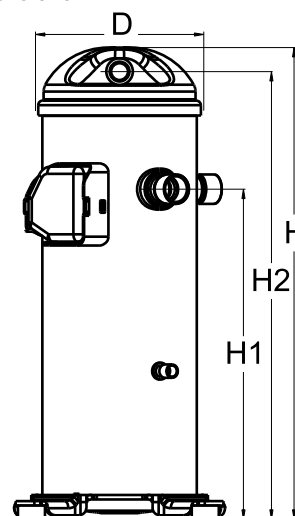


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General Characteristics

Model number (on compressor nameplate)		HLH068T4LC8
Code number for Singlepack*		120U2417
Code number for Industrial pack**		120U2414
Drawing number		0XR6049B-2
Suction and discharge connections		Brazed
Suction connection		7/8 " ODF
Discharge connection		1/2 " ODF
Oil sight glass		None
Oil equalisation connection		1/2"
Oil drain connection		None
LP gauge port		None
IPR valve		Yes
Swept volume		64.4 cm3/rev
Displacement @ Nominal speed		11.2 m3/h @ 2900 rpm - 13.5 m3/h @ 3500 rpm
Net weight		37.2 kg
Oil charge		1.57 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		5.44 kg
Approved refrigerants		R410A

Dimensions

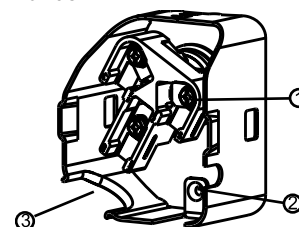


D=183.5 mm
H=455 mm
H1=280 mm
H2=422 mm
H3=- mm

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		2.116 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C		2.088 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C		2.072 Ω
Rated Load Amps (RLA)		12.2 A
Maximum Continuous Current (MCC)		19 A
Locked Rotor Amps (LRA)		87 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.

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-1/4"	8156131

Rotolock accessories, discharge side

Code no.

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Angle adapter, C06 (1" Rotolock, 1/2" ODF)	8168007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

Rotolock accessories, sets

Code no.

Solder sleeve adapter set (1-1/4" Rotolock, 7/8" ODF), (1" Rotolock, 1/2" ODF)	120Z0127
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
--------------------------------------------	----------

Crankcase heaters

Code no.

Belt type crankcase heater, 50 W, 230 V, CE mark, UL	120Z0057
Belt type crankcase heater, 50 W, 400 V, CE mark, UL	120Z0058

Miscellaneous accessories

Code no.

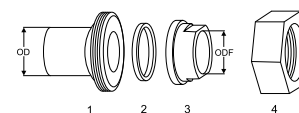
Acoustic hood	120Z5044
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

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

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	5 900	7 432	9 150	11 147	13 515	16 347	19 738	23 782	-
35	5 273	6 890	8 613	10 535	12 747	15 342	18 414	22 055	-
40	4 410	6 171	7 961	9 869	11 988	14 410	17 226	20 530	-
45	-	5 213	7 127	9 082	11 169	13 478	16 102	19 130	-
50	-	-	6 050	8 107	10 219	12 476	14 966	17 781	-
55	-	-	-	6 883	9 072	11 329	13 742	16 399	-
60	-	-	-	-	7 660	9 961	12 343	14 892	-
65	-	-	-	-	-	8 286	10 663	13 132	-

Power input in W

30	3 114	3 157	3 183	3 191	3 176	3 135	3 067	2 966	-
35	3 422	3 474	3 512	3 533	3 534	3 511	3 461	3 382	-
40	3 774	3 832	3 879	3 909	3 922	3 912	3 878	3 815	-
45	-	4 239	4 290	4 326	4 346	4 347	4 324	4 275	-
50	-	-	4 753	4 792	4 816	4 823	4 807	4 768	-
55	-	-	-	5 315	5 339	5 347	5 336	5 302	-
60	-	-	-	-	5 923	5 929	5 918	5 886	-
65	-	-	-	-	-	6 576	6 561	6 527	-

Current consumption in A

30	6.16	6.21	6.25	6.30	6.36	6.43	6.53	6.64	-
35	6.49	6.55	6.60	6.65	6.70	6.76	6.84	6.93	-
40	6.83	6.92	6.98	7.04	7.10	7.16	7.22	7.30	-
45	-	7.33	7.42	7.50	7.56	7.62	7.68	7.75	-
50	-	-	7.91	8.01	8.09	8.17	8.23	8.29	-
55	-	-	-	8.59	8.70	8.79	8.87	8.94	-
60	-	-	-	-	9.40	9.51	9.61	9.69	-
65	-	-	-	-	-	10.33	10.45	10.56	-

Mass flow in kg/h

30	123	153	186	223	268	321	385	461	-
35	116	149	184	222	265	316	375	446	-
40	103	141	179	219	263	312	369	435	-
45	-	127	170	214	260	310	365	429	-
50	-	-	155	204	254	306	362	425	-
55	-	-	-	187	242	298	357	420	-
60	-	-	-	-	224	286	349	414	-
65	-	-	-	-	-	267	335	405	-

Coefficient of performance (C.O.P.)

30	1.89	2.35	2.87	3.49	4.26	5.21	6.44	8.02	-
35	1.54	1.98	2.45	2.98	3.61	4.37	5.32	6.52	-
40	1.17	1.61	2.05	2.52	3.06	3.68	4.44	5.38	-
45	-	1.23	1.66	2.10	2.57	3.10	3.72	4.48	-
50	-	-	1.27	1.69	2.12	2.59	3.11	3.73	-
55	-	-	-	1.29	1.70	2.12	2.58	3.09	-
60	-	-	-	-	1.29	1.68	2.09	2.53	-
65	-	-	-	-	-	1.26	1.63	2.01	-

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

Cooling capacity	14 966	W
Power input	4 807	W
Current consumption	8.23	A
Mass flow	362	kg/h
C.O.P.	3.11	

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	71	dB(A)
With acoustic hood	66	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
R410A

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

Cooling capacity in W

30	6 371	8 018	9 862	12 002	14 538	17 570	21 197	25 520	-
35	5 731	7 480	9 341	11 412	13 795	16 588	19 890	23 803	-
40	4 831	6 751	8 697	10 769	13 067	15 690	18 738	22 309	-
45	-	5 757	7 858	10 000	12 282	14 804	17 665	20 965	-
50	-	-	6 750	9 030	11 365	13 855	16 598	19 696	-
55	-	-	-	7 786	10 243	12 770	15 465	18 428	-
60	-	-	-	-	8 842	11 475	14 190	17 089	-
65	-	-	-	-	-	9 896	12 701	15 604	-

Power input in W

30	3 114	3 157	3 183	3 191	3 176	3 135	3 067	2 966	-
35	3 422	3 474	3 512	3 533	3 534	3 511	3 461	3 382	-
40	3 774	3 832	3 879	3 909	3 922	3 912	3 878	3 815	-
45	-	4 239	4 290	4 326	4 346	4 347	4 324	4 275	-
50	-	-	4 753	4 792	4 816	4 823	4 807	4 768	-
55	-	-	-	5 315	5 339	5 347	5 336	5 302	-
60	-	-	-	-	5 923	5 929	5 918	5 886	-
65	-	-	-	-	-	6 576	6 561	6 527	-

Current consumption in A

30	6.16	6.21	6.25	6.30	6.36	6.43	6.53	6.64	-
35	6.49	6.55	6.60	6.65	6.70	6.76	6.84	6.93	-
40	6.83	6.92	6.98	7.04	7.10	7.16	7.22	7.30	-
45	-	7.33	7.42	7.50	7.56	7.62	7.68	7.75	-
50	-	-	7.91	8.01	8.09	8.17	8.23	8.29	-
55	-	-	-	8.59	8.70	8.79	8.87	8.94	-
60	-	-	-	-	9.40	9.51	9.61	9.69	-
65	-	-	-	-	-	10.33	10.45	10.56	-

Mass flow in kg/h

30	123	152	184	222	266	319	382	458	-
35	115	148	183	221	263	313	372	442	-
40	102	140	178	218	262	310	367	432	-
45	-	126	169	213	258	308	363	426	-
50	-	-	154	203	252	304	359	421	-
55	-	-	-	186	241	296	354	417	-
60	-	-	-	-	223	284	346	411	-
65	-	-	-	-	-	265	333	402	-

Coefficient of performance (C.O.P.)

30	2.05	2.54	3.10	3.76	4.58	5.60	6.91	8.60	-
35	1.67	2.15	2.66	3.23	3.90	4.72	5.75	7.04	-
40	1.28	1.76	2.24	2.75	3.33	4.01	4.83	5.85	-
45	-	1.36	1.83	2.31	2.83	3.41	4.09	4.90	-
50	-	-	1.42	1.88	2.36	2.87	3.45	4.13	-
55	-	-	-	1.46	1.92	2.39	2.90	3.48	-
60	-	-	-	-	1.49	1.94	2.40	2.90	-
65	-	-	-	-	-	1.50	1.94	2.39	-

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

Cooling capacity	16 876	W
Power input	5 258	W
Current consumption	8.82	A
Mass flow	382	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	71	dB(A)
With acoustic hood	66	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

R410A

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

Cooling capacity in W

30	7 001	8 819	10 857	13 226	16 036	19 397	23 420	28 215	-
35	6 263	8 181	10 227	12 509	15 136	18 218	21 864	26 186	-
40	5 246	7 336	9 461	11 728	14 247	17 126	20 472	24 397	-
45	-	6 206	8 480	10 804	13 287	16 035	19 156	22 758	-
50	-	-	7 208	9 656	12 170	14 858	17 824	21 176	-
55	-	-	-	8 208	10 816	13 507	16 384	19 553	-
60	-	-	-	-	9 142	11 888	14 732	17 775	-
65	-	-	-	-	-	9 898	12 739	15 691	-

Power input in W

30	3 728	3 779	3 810	3 819	3 801	3 753	3 671	3 550	-
35	4 096	4 159	4 205	4 230	4 231	4 203	4 143	4 048	-
40	4 518	4 588	4 643	4 680	4 695	4 684	4 642	4 568	-
45	-	5 076	5 136	5 180	5 204	5 204	5 177	5 118	-
50	-	-	5 692	5 739	5 767	5 775	5 757	5 709	-
55	-	-	-	6 365	6 394	6 404	6 391	6 350	-
60	-	-	-	-	7 094	7 101	7 088	7 050	-
65	-	-	-	-	-	7 877	7 859	7 819	-

Current consumption in A

30	6.24	6.29	6.33	6.38	6.44	6.52	6.61	6.73	-
35	6.57	6.63	6.68	6.73	6.79	6.85	6.92	7.02	-
40	6.92	7.01	7.07	7.13	7.19	7.25	7.31	7.39	-
45	-	7.42	7.52	7.59	7.66	7.72	7.78	7.85	-
50	-	-	8.01	8.11	8.20	8.27	8.34	8.40	-
55	-	-	-	8.71	8.82	8.91	8.99	9.06	-
60	-	-	-	-	9.52	9.64	9.73	9.82	-
65	-	-	-	-	-	10.46	10.59	10.69	-

Mass flow in kg/h

30	146	181	220	265	318	381	456	547	-
35	138	177	218	263	315	375	445	529	-
40	122	168	213	261	313	371	439	517	-
45	-	151	203	255	309	368	435	510	-
50	-	-	184	243	302	364	431	506	-
55	-	-	-	223	289	356	426	501	-
60	-	-	-	-	268	341	416	494	-
65	-	-	-	-	-	319	400	484	-

Coefficient of performance (C.O.P.)

30	1.88	2.33	2.85	3.46	4.22	5.17	6.38	7.95	-
35	1.53	1.97	2.43	2.96	3.58	4.33	5.28	6.47	-
40	1.16	1.60	2.04	2.51	3.03	3.66	4.41	5.34	-
45	-	1.22	1.65	2.09	2.55	3.08	3.70	4.45	-
50	-	-	1.27	1.68	2.11	2.57	3.10	3.71	-
55	-	-	-	1.29	1.69	2.11	2.56	3.08	-
60	-	-	-	-	1.29	1.67	2.08	2.52	-
65	-	-	-	-	-	1.26	1.62	2.01	-

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

Cooling capacity	17 824	W
Power input	5 757	W
Current consumption	8.34	A
Mass flow	431	kg/h
C.O.P.	3.10	

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	74	dB(A)
With acoustic 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 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	7 561	9 514	11 701	14 241	17 250	20 847	25 150	30 277	-
35	6 808	8 882	11 090	13 550	16 379	19 696	23 617	28 262	-
40	5 747	8 025	10 336	12 798	15 529	18 647	22 268	26 512	-
45	-	6 854	9 350	11 896	14 611	17 611	21 015	24 940	-
50	-	-	8 042	10 755	13 535	16 500	19 768	23 457	-
55	-	-	-	9 285	12 212	15 224	18 438	21 972	-
60	-	-	-	-	10 554	13 694	16 937	20 398	-
65	-	-	-	-	-	11 822	15 174	18 645	-

Power input in W

30	3 728	3 779	3 810	3 819	3 801	3 753	3 671	3 550	-
35	4 096	4 159	4 205	4 230	4 231	4 203	4 143	4 048	-
40	4 518	4 588	4 643	4 680	4 695	4 684	4 642	4 568	-
45	-	5 076	5 136	5 180	5 204	5 204	5 177	5 118	-
50	-	-	5 692	5 739	5 767	5 775	5 757	5 709	-
55	-	-	-	6 365	6 394	6 404	6 391	6 350	-
60	-	-	-	-	7 094	7 101	7 088	7 050	-
65	-	-	-	-	-	7 877	7 859	7 819	-

Current consumption in A

30	6.24	6.29	6.33	6.38	6.44	6.52	6.61	6.73	-
35	6.57	6.63	6.68	6.73	6.79	6.85	6.92	7.02	-
40	6.92	7.01	7.07	7.13	7.19	7.25	7.31	7.39	-
45	-	7.42	7.52	7.59	7.66	7.72	7.78	7.85	-
50	-	-	8.01	8.11	8.20	8.27	8.34	8.40	-
55	-	-	-	8.71	8.82	8.91	8.99	9.06	-
60	-	-	-	-	9.52	9.64	9.73	9.82	-
65	-	-	-	-	-	10.46	10.59	10.69	-

Mass flow in kg/h

30	145	180	219	263	316	378	453	543	-
35	137	176	217	262	313	372	442	525	-
40	122	167	212	259	311	369	436	514	-
45	-	150	201	253	307	366	432	507	-
50	-	-	183	241	300	362	428	502	-
55	-	-	-	222	287	353	423	497	-
60	-	-	-	-	266	339	413	491	-
65	-	-	-	-	-	316	398	480	-

Coefficient of performance (C.O.P.)

30	2.03	2.52	3.07	3.73	4.54	5.55	6.85	8.53	-
35	1.66	2.14	2.64	3.20	3.87	4.69	5.70	6.98	-
40	1.27	1.75	2.23	2.73	3.31	3.98	4.80	5.80	-
45	-	1.35	1.82	2.30	2.81	3.38	4.06	4.87	-
50	-	-	1.41	1.87	2.35	2.86	3.43	4.11	-
55	-	-	-	1.46	1.91	2.38	2.89	3.46	-
60	-	-	-	-	1.49	1.93	2.39	2.89	-
65	-	-	-	-	-	1.50	1.93	2.38	-

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

Cooling capacity	20 118	W
Power input	6 297	W
Current consumption	8.93	A
Mass flow	455	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	74	dB(A)
With acoustic hood	69	dB(A)

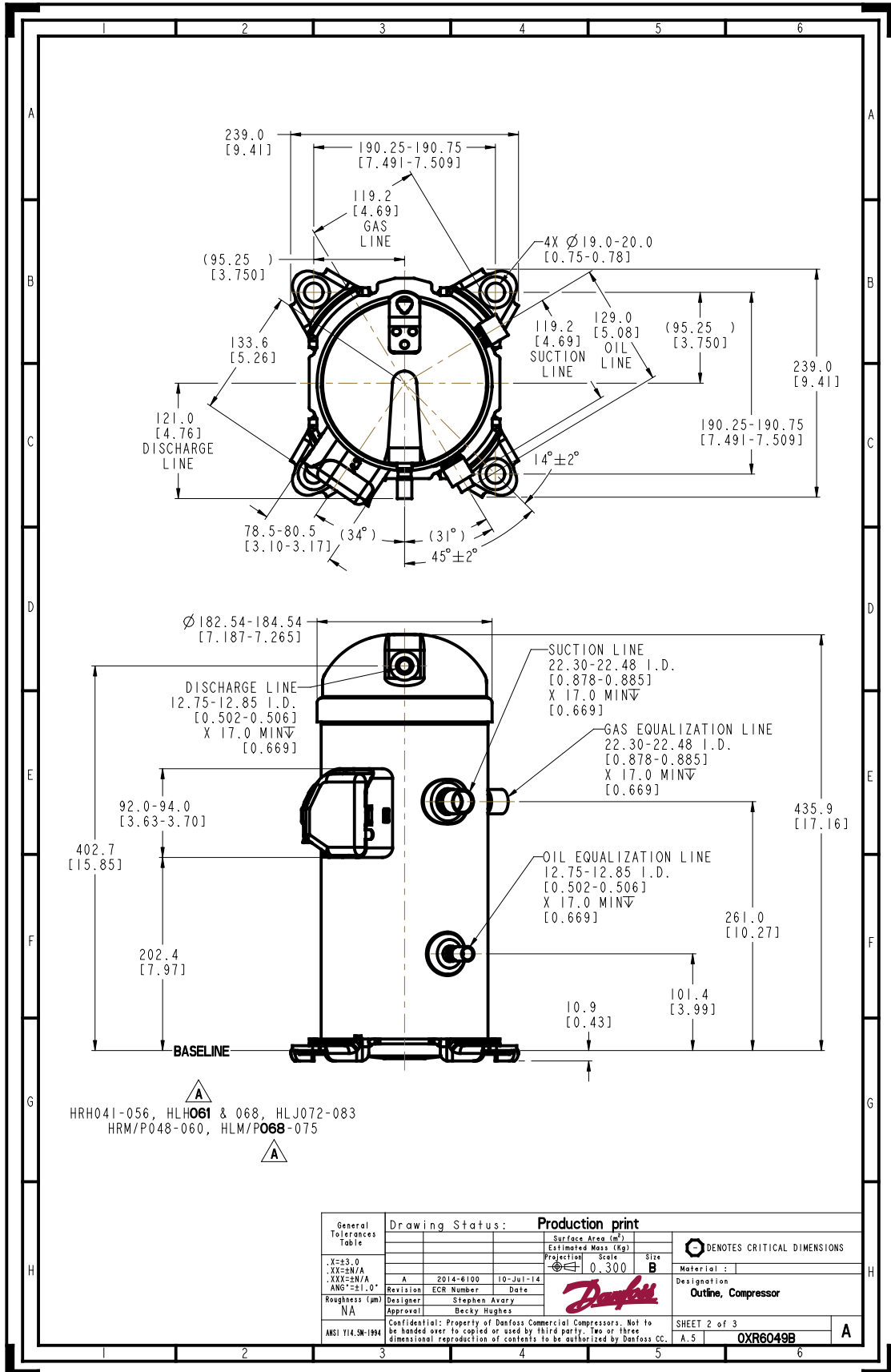
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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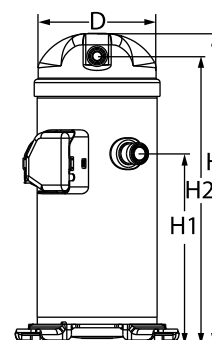
General Tolerances Table	Drawing Status: Production print			Surface Area (m ²)	Estimated Mass (kg)	Size B	Material:
	Y=±3.0	XX=±N/A	XX=±N/A				
ANG=±1.0°	Revision	ECR Number	Date	Projection	Scale	0.300	Material:
Roughness (µm)	NA	Designer	Stephen Avary	DENOTES CRITICAL DIMENSIONS Designation Outline, Compressor			
ANSI Y14.5M-1994	Approval	Becky Hughes					
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General Characteristics

Model number (on compressor nameplate)		HLH068T4LQ6
Code number for Singlepack*		121U3125
Code number for Industrial pack**		121U3124
Drawing number		0XR6089B-3
Suction and discharge connections		Rotolock
Suction connection		3/4 " Rotolock
Discharge connection		1/2 " Rotolock
Oil sight glass		None
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		Yes
Swept volume		64.4 cm3/rev
Displacement @ Nominal speed		11.2 m3/h @ 2900 rpm - 13.5 m3/h @ 3500 rpm
Net weight		37.2 kg
Oil charge		1.57 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		5.44 kg
Approved refrigerants		R410A

Dimensions

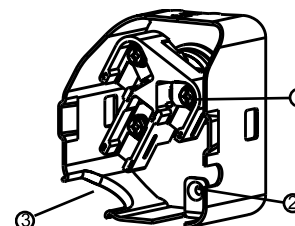


D=183.5 mm
H=455 mm
H1=280 mm
H2=422 mm
H3=- mm

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		2.116 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C		2.088 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C		2.072 Ω
Rated Load Amps (RLA)		12.2 A
Maximum Continuous Current (MCC)		19 A
Locked Rotor Amps (LRA)		87 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.**

Rotolock accessories, discharge side **Code no.**

Rotolock accessories, sets **Code no.**

Oil / lubricants **Code no.**

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
--------------------------------------------	----------

Crankcase heaters **Code no.**

Belt type crankcase heater, 50 W, 230 V, CE mark, UL	120Z0057
Belt type crankcase heater, 50 W, 400 V, CE mark, UL	120Z0058

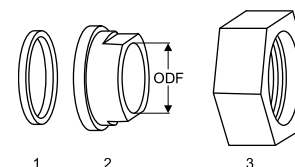
Miscellaneous accessories **Code no.**

Acoustic hood	120Z5044
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

Gaskets, sleeves and nuts



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

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	5 900	7 432	9 150	11 147	13 515	16 347	19 738	23 782	-
35	5 273	6 890	8 613	10 535	12 747	15 342	18 414	22 055	-
40	4 410	6 171	7 961	9 869	11 988	14 410	17 226	20 530	-
45	-	5 213	7 127	9 082	11 169	13 478	16 102	19 130	-
50	-	-	6 050	8 107	10 219	12 476	14 966	17 781	-
55	-	-	-	6 883	9 072	11 329	13 742	16 399	-
60	-	-	-	-	7 660	9 961	12 343	14 892	-
65	-	-	-	-	-	8 286	10 663	13 132	-

Power input in W

30	3 114	3 157	3 183	3 191	3 176	3 135	3 067	2 966	-
35	3 422	3 474	3 512	3 533	3 534	3 511	3 461	3 382	-
40	3 774	3 832	3 879	3 909	3 922	3 912	3 878	3 815	-
45	-	4 239	4 290	4 326	4 346	4 347	4 324	4 275	-
50	-	-	4 753	4 792	4 816	4 823	4 807	4 768	-
55	-	-	-	5 315	5 339	5 347	5 336	5 302	-
60	-	-	-	-	5 923	5 929	5 918	5 886	-
65	-	-	-	-	-	6 576	6 561	6 527	-

Current consumption in A

30	6.16	6.21	6.25	6.30	6.36	6.43	6.53	6.64	-
35	6.49	6.55	6.60	6.65	6.70	6.76	6.84	6.93	-
40	6.83	6.92	6.98	7.04	7.10	7.16	7.22	7.30	-
45	-	7.33	7.42	7.50	7.56	7.62	7.68	7.75	-
50	-	-	7.91	8.01	8.09	8.17	8.23	8.29	-
55	-	-	-	8.59	8.70	8.79	8.87	8.94	-
60	-	-	-	-	9.40	9.51	9.61	9.69	-
65	-	-	-	-	-	10.33	10.45	10.56	-

Mass flow in kg/h

30	123	153	186	223	268	321	385	461	-
35	116	149	184	222	265	316	375	446	-
40	103	141	179	219	263	312	369	435	-
45	-	127	170	214	260	310	365	429	-
50	-	-	155	204	254	306	362	425	-
55	-	-	-	187	242	298	357	420	-
60	-	-	-	-	224	286	349	414	-
65	-	-	-	-	-	267	335	405	-

Coefficient of performance (C.O.P.)

30	1.89	2.35	2.87	3.49	4.26	5.21	6.44	8.02	-
35	1.54	1.98	2.45	2.98	3.61	4.37	5.32	6.52	-
40	1.17	1.61	2.05	2.52	3.06	3.68	4.44	5.38	-
45	-	1.23	1.66	2.10	2.57	3.10	3.72	4.48	-
50	-	-	1.27	1.69	2.12	2.59	3.11	3.73	-
55	-	-	-	1.29	1.70	2.12	2.58	3.09	-
60	-	-	-	-	1.29	1.68	2.09	2.53	-
65	-	-	-	-	-	1.26	1.63	2.01	-

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

Cooling capacity	14 966	W
Power input	4 807	W
Current consumption	8.23	A
Mass flow	362	kg/h
C.O.P.	3.11	

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	71	dB(A)
With acoustic hood	66	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

R410A

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

Cooling capacity in W

30	6 371	8 018	9 862	12 002	14 538	17 570	21 197	25 520	-
35	5 731	7 480	9 341	11 412	13 795	16 588	19 890	23 803	-
40	4 831	6 751	8 697	10 769	13 067	15 690	18 738	22 309	-
45	-	5 757	7 858	10 000	12 282	14 804	17 665	20 965	-
50	-	-	6 750	9 030	11 365	13 855	16 598	19 696	-
55	-	-	-	7 786	10 243	12 770	15 465	18 428	-
60	-	-	-	-	8 842	11 475	14 190	17 089	-
65	-	-	-	-	-	9 896	12 701	15 604	-

Power input in W

30	3 114	3 157	3 183	3 191	3 176	3 135	3 067	2 966	-
35	3 422	3 474	3 512	3 533	3 534	3 511	3 461	3 382	-
40	3 774	3 832	3 879	3 909	3 922	3 912	3 878	3 815	-
45	-	4 239	4 290	4 326	4 346	4 347	4 324	4 275	-
50	-	-	4 753	4 792	4 816	4 823	4 807	4 768	-
55	-	-	-	5 315	5 339	5 347	5 336	5 302	-
60	-	-	-	-	5 923	5 929	5 918	5 886	-
65	-	-	-	-	-	6 576	6 561	6 527	-

Current consumption in A

30	6.16	6.21	6.25	6.30	6.36	6.43	6.53	6.64	-
35	6.49	6.55	6.60	6.65	6.70	6.76	6.84	6.93	-
40	6.83	6.92	6.98	7.04	7.10	7.16	7.22	7.30	-
45	-	7.33	7.42	7.50	7.56	7.62	7.68	7.75	-
50	-	-	7.91	8.01	8.09	8.17	8.23	8.29	-
55	-	-	-	8.59	8.70	8.79	8.87	8.94	-
60	-	-	-	-	9.40	9.51	9.61	9.69	-
65	-	-	-	-	-	10.33	10.45	10.56	-

Mass flow in kg/h

30	123	152	184	222	266	319	382	458	-
35	115	148	183	221	263	313	372	442	-
40	102	140	178	218	262	310	367	432	-
45	-	126	169	213	258	308	363	426	-
50	-	-	154	203	252	304	359	421	-
55	-	-	-	186	241	296	354	417	-
60	-	-	-	-	223	284	346	411	-
65	-	-	-	-	-	265	333	402	-

Coefficient of performance (C.O.P.)

30	2.05	2.54	3.10	3.76	4.58	5.60	6.91	8.60	-
35	1.67	2.15	2.66	3.23	3.90	4.72	5.75	7.04	-
40	1.28	1.76	2.24	2.75	3.33	4.01	4.83	5.85	-
45	-	1.36	1.83	2.31	2.83	3.41	4.09	4.90	-
50	-	-	1.42	1.88	2.36	2.87	3.45	4.13	-
55	-	-	-	1.46	1.92	2.39	2.90	3.48	-
60	-	-	-	-	1.49	1.94	2.40	2.90	-
65	-	-	-	-	-	1.50	1.94	2.39	-

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

Cooling capacity	16 876	W
Power input	5 258	W
Current consumption	8.82	A
Mass flow	382	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	71	dB(A)
With acoustic hood	66	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

R410A

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

Cooling capacity in W

30	7 001	8 819	10 857	13 226	16 036	19 397	23 420	28 215	-
35	6 263	8 181	10 227	12 509	15 136	18 218	21 864	26 186	-
40	5 246	7 336	9 461	11 728	14 247	17 126	20 472	24 397	-
45	-	6 206	8 480	10 804	13 287	16 035	19 156	22 758	-
50	-	-	7 208	9 656	12 170	14 858	17 824	21 176	-
55	-	-	-	8 208	10 816	13 507	16 384	19 553	-
60	-	-	-	-	9 142	11 888	14 732	17 775	-
65	-	-	-	-	-	9 898	12 739	15 691	-

Power input in W

30	3 728	3 779	3 810	3 819	3 801	3 753	3 671	3 550	-
35	4 096	4 159	4 205	4 230	4 231	4 203	4 143	4 048	-
40	4 518	4 588	4 643	4 680	4 695	4 684	4 642	4 568	-
45	-	5 076	5 136	5 180	5 204	5 204	5 177	5 118	-
50	-	-	5 692	5 739	5 767	5 775	5 757	5 709	-
55	-	-	-	6 365	6 394	6 404	6 391	6 350	-
60	-	-	-	-	7 094	7 101	7 088	7 050	-
65	-	-	-	-	-	7 877	7 859	7 819	-

Current consumption in A

30	6.24	6.29	6.33	6.38	6.44	6.52	6.61	6.73	-
35	6.57	6.63	6.68	6.73	6.79	6.85	6.92	7.02	-
40	6.92	7.01	7.07	7.13	7.19	7.25	7.31	7.39	-
45	-	7.42	7.52	7.59	7.66	7.72	7.78	7.85	-
50	-	-	8.01	8.11	8.20	8.27	8.34	8.40	-
55	-	-	-	8.71	8.82	8.91	8.99	9.06	-
60	-	-	-	-	9.52	9.64	9.73	9.82	-
65	-	-	-	-	-	10.46	10.59	10.69	-

Mass flow in kg/h

30	146	181	220	265	318	381	456	547	-
35	138	177	218	263	315	375	445	529	-
40	122	168	213	261	313	371	439	517	-
45	-	151	203	255	309	368	435	510	-
50	-	-	184	243	302	364	431	506	-
55	-	-	-	223	289	356	426	501	-
60	-	-	-	-	268	341	416	494	-
65	-	-	-	-	-	319	400	484	-

Coefficient of performance (C.O.P.)

30	1.88	2.33	2.85	3.46	4.22	5.17	6.38	7.95	-
35	1.53	1.97	2.43	2.96	3.58	4.33	5.28	6.47	-
40	1.16	1.60	2.04	2.51	3.03	3.66	4.41	5.34	-
45	-	1.22	1.65	2.09	2.55	3.08	3.70	4.45	-
50	-	-	1.27	1.68	2.11	2.57	3.10	3.71	-
55	-	-	-	1.29	1.69	2.11	2.56	3.08	-
60	-	-	-	-	1.29	1.67	2.08	2.52	-
65	-	-	-	-	-	1.26	1.62	2.01	-

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

Cooling capacity	17 824	W
Power input	5 757	W
Current consumption	8.34	A
Mass flow	431	kg/h
C.O.P.	3.10	

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	74	dB(A)
With acoustic 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 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	7 561	9 514	11 701	14 241	17 250	20 847	25 150	30 277	-
35	6 808	8 882	11 090	13 550	16 379	19 696	23 617	28 262	-
40	5 747	8 025	10 336	12 798	15 529	18 647	22 268	26 512	-
45	-	6 854	9 350	11 896	14 611	17 611	21 015	24 940	-
50	-	-	8 042	10 755	13 535	16 500	19 768	23 457	-
55	-	-	-	9 285	12 212	15 224	18 438	21 972	-
60	-	-	-	-	10 554	13 694	16 937	20 398	-
65	-	-	-	-	-	11 822	15 174	18 645	-

Power input in W

30	3 728	3 779	3 810	3 819	3 801	3 753	3 671	3 550	-
35	4 096	4 159	4 205	4 230	4 231	4 203	4 143	4 048	-
40	4 518	4 588	4 643	4 680	4 695	4 684	4 642	4 568	-
45	-	5 076	5 136	5 180	5 204	5 204	5 177	5 118	-
50	-	-	5 692	5 739	5 767	5 775	5 757	5 709	-
55	-	-	-	6 365	6 394	6 404	6 391	6 350	-
60	-	-	-	-	7 094	7 101	7 088	7 050	-
65	-	-	-	-	-	7 877	7 859	7 819	-

Current consumption in A

30	6.24	6.29	6.33	6.38	6.44	6.52	6.61	6.73	-
35	6.57	6.63	6.68	6.73	6.79	6.85	6.92	7.02	-
40	6.92	7.01	7.07	7.13	7.19	7.25	7.31	7.39	-
45	-	7.42	7.52	7.59	7.66	7.72	7.78	7.85	-
50	-	-	8.01	8.11	8.20	8.27	8.34	8.40	-
55	-	-	-	8.71	8.82	8.91	8.99	9.06	-
60	-	-	-	-	9.52	9.64	9.73	9.82	-
65	-	-	-	-	-	10.46	10.59	10.69	-

Mass flow in kg/h

30	145	180	219	263	316	378	453	543	-
35	137	176	217	262	313	372	442	525	-
40	122	167	212	259	311	369	436	514	-
45	-	150	201	253	307	366	432	507	-
50	-	-	183	241	300	362	428	502	-
55	-	-	-	222	287	353	423	497	-
60	-	-	-	-	266	339	413	491	-
65	-	-	-	-	-	316	398	480	-

Coefficient of performance (C.O.P.)

30	2.03	2.52	3.07	3.73	4.54	5.55	6.85	8.53	-
35	1.66	2.14	2.64	3.20	3.87	4.69	5.70	6.98	-
40	1.27	1.75	2.23	2.73	3.31	3.98	4.80	5.80	-
45	-	1.35	1.82	2.30	2.81	3.38	4.06	4.87	-
50	-	-	1.41	1.87	2.35	2.86	3.43	4.11	-
55	-	-	-	1.46	1.91	2.38	2.89	3.46	-
60	-	-	-	-	1.49	1.93	2.39	2.89	-
65	-	-	-	-	-	1.50	1.93	2.38	-

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

Cooling capacity	20 118	W
Power input	6 297	W
Current consumption	8.93	A
Mass flow	455	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	74	dB(A)
With acoustic hood	69	dB(A)

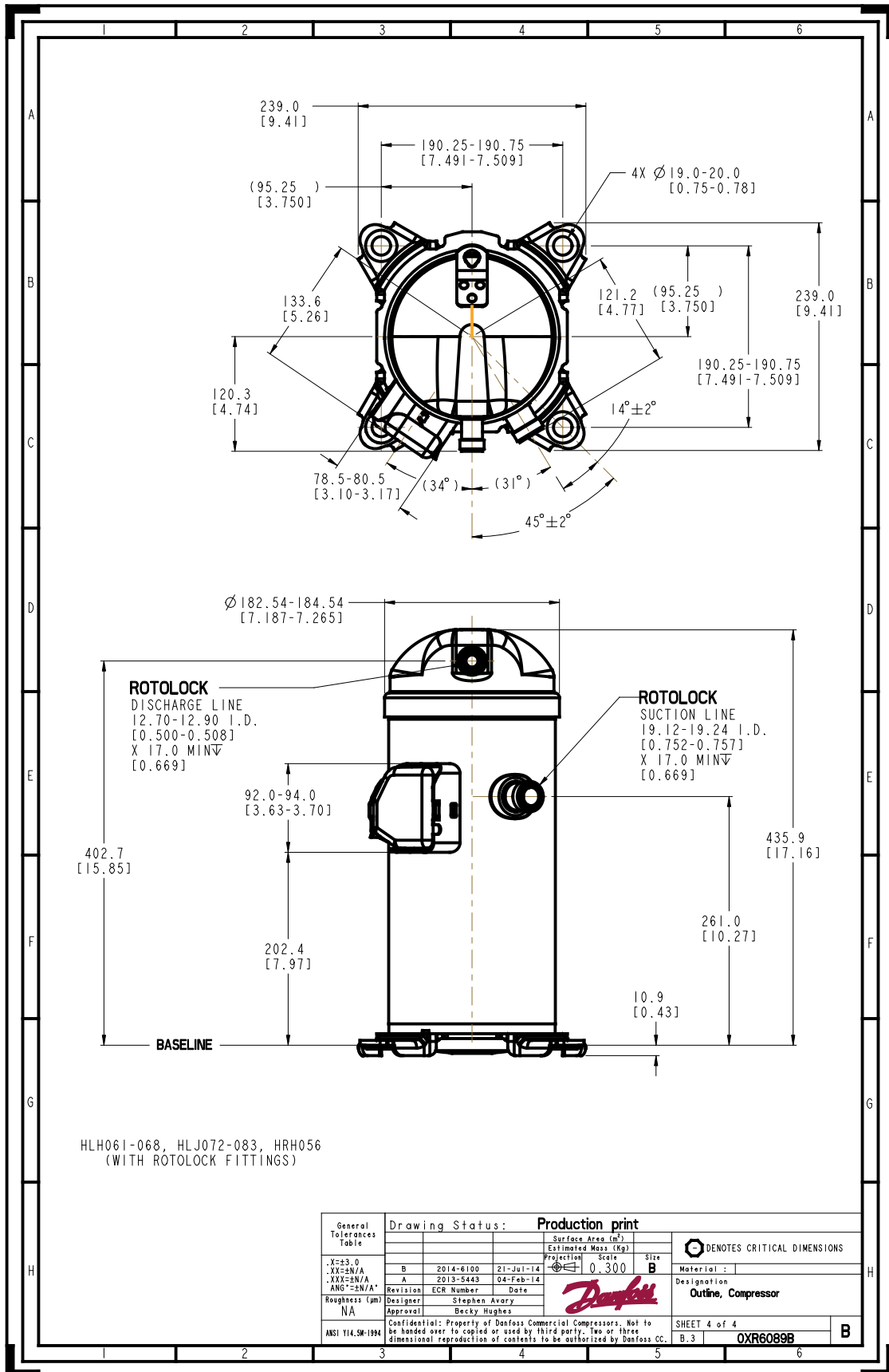
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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General Tolerances Table Y=±3.0 .XX=±N/A .XX=±N/A ANG°=±N/A Roughness (µm) NA	Drawing Status: Production print			Surface Area (m ²)	DENOTES CRITICAL DIMENSIONS
				Estimated Mass (kg)	
				Projection Scale Size	
				0.300 B	
Revision ECR Number Date		Designer Stephen Avery Approval Becky Hughes		Designation Outline, Compressor	
ANS1 Y14.5M-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.		SHEET 4 of 4 B.3 0XR6089B B	

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