

Datasheets

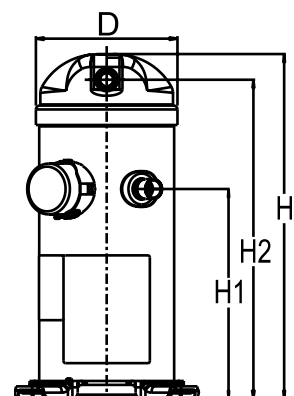
Danfoss scroll compressors **H series**



General Characteristics

Model number (on compressor nameplate)		HLH068T5LP6
Code number for Singlepack*		120U1341
Code number for Industrial pack**		120U1338
Drawing number		0XR6002B-2
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 cm ³ /rev	
Displacement @ Nominal speed	11.2 m ³ /h @ 2900 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

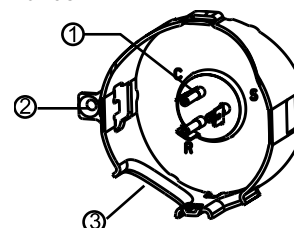
H2=422 mm

H3=- mm

Electrical Characteristics

Nominal voltage	230V/1/50Hz
Voltage range	207-253 V
Winding resistance (main / start) at 25°C	0,39 Ω / 1,019 Ω
Run capacitors A + C	55 µF + - µF
Start capacitor B	88-108 µF
Start relay	3ARR3*25AS*
Rated Load Amps (RLA)	29 A
Maximum Continuous Current (MCC)	45 A
Locked Rotor Amps (LRA)	130 A
Motor protection	Internal overload protector

Terminal box



IP22

1: Spade connectors 1/4"

2: Earth connection

3: Power cable passage

Recommended Installation torques

Oil sight glass	52,5 Nm
Power connections / Earth connection	0 Nm / 0 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

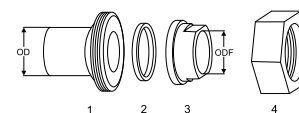
**Industrial pack: 12 or 16 Unboxed compressors on pallet

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
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Miscellaneous accessories
Code no.

Acoustic hood	120Z5044
Discharge thermostat kit	7750009

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

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	15

Cooling capacity in W

30	6 082	7 673	9 449	11 509	13 952	16 879	20 389	24 584	-
35	5 379	7 053	8 825	10 793	13 055	15 712	18 862	22 605	-
40	4 420	6 238	8 067	10 006	12 152	14 604	17 459	20 818	-
45	-	5 177	7 124	9 095	11 187	13 497	16 123	19 161	-
50	-	-	5 946	8 007	10 104	12 334	14 791	17 573	-
55	-	-	-	6 693	8 849	11 054	13 401	15 985	-
60	-	-	-	-	7 368	9 594	11 880	14 318	-
65	-	-	-	-	-	7 882	10 138	12 464	-

Power input in W

30	3 281	3 324	3 352	3 360	3 345	3 302	3 229	3 122	-
35	3 614	3 668	3 708	3 730	3 730	3 706	3 654	3 569	-
40	4 000	4 059	4 107	4 139	4 152	4 142	4 106	4 039	-
45	-	4 507	4 558	4 597	4 618	4 618	4 594	4 542	-
50	-	-	5 070	5 110	5 136	5 142	5 126	5 084	-
55	-	-	-	5 689	5 714	5 723	5 711	5 675	-
60	-	-	-	-	6 361	6 368	6 357	6 323	-
65	-	-	-	-	-	7 086	7 071	7 036	-

Current consumption in A

30	19.22	19.27	19.48	19.68	19.69	19.34	18.46	16.87	-
35	20.20	20.39	20.77	21.17	21.41	21.32	20.72	19.45	-
40	21.56	21.80	22.26	22.76	23.13	23.20	22.79	21.74	-
45	-	23.70	24.13	24.64	25.04	25.17	24.86	23.93	-
50	-	-	26.57	26.99	27.33	27.43	27.12	26.21	-
55	-	-	-	30.01	30.19	30.16	29.75	28.77	-
60	-	-	-	-	33.81	33.55	32.94	31.79	-
65	-	-	-	-	-	37.79	36.88	35.47	-

Mass flow in kg/h

30	127	158	192	230	276	331	397	477	-
35	119	153	188	227	272	323	384	457	-
40	103	143	182	222	267	317	374	441	-
45	-	126	170	214	260	310	366	430	-
50	-	-	152	201	251	302	358	420	-
55	-	-	-	182	236	291	348	410	-
60	-	-	-	-	216	275	335	399	-
65	-	-	-	-	-	253	318	384	-

Coefficient of performance (C.O.P.)

30	1.85	2.31	2.82	3.43	4.17	5.11	6.31	7.87	-
35	1.49	1.92	2.38	2.89	3.50	4.24	5.16	6.33	-
40	1.11	1.54	1.96	2.42	2.93	3.53	4.25	5.15	-
45	-	1.15	1.56	1.98	2.42	2.92	3.51	4.22	-
50	-	-	1.17	1.57	1.97	2.40	2.89	3.46	-
55	-	-	-	1.18	1.55	1.93	2.35	2.82	-
60	-	-	-	-	1.16	1.51	1.87	2.26	-
65	-	-	-	-	-	1.11	1.43	1.77	-

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

Cooling capacity	14 791	W
Power input	5 126	W
Current consumption	27.12	A
Mass flow	358	kg/h
C.O.P.	2.89	

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

All performance data +/- 5%

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Datasheet, performance data

Danfoss scroll compressor. HLH068T5

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	15

Cooling capacity in W

30	6 568	8 278	10 183	12 391	15 008	18 141	21 896	26 380	-
35	5 847	7 658	9 570	11 692	14 128	16 987	20 374	24 397	-
40	4 842	6 824	8 814	10 919	13 246	15 901	18 991	22 623	-
45	-	5 717	7 855	10 015	12 302	14 824	17 688	20 999	-
50	-	-	6 634	8 919	11 237	13 697	16 404	19 465	-
55	-	-	-	7 571	9 992	12 459	15 081	17 962	-
60	-	-	-	-	8 505	11 052	13 658	16 431	-
65	-	-	-	-	-	9 414	12 076	14 811	-

Power input in W

30	3 281	3 324	3 352	3 360	3 345	3 302	3 229	3 122	-
35	3 614	3 668	3 708	3 730	3 730	3 706	3 654	3 569	-
40	4 000	4 059	4 107	4 139	4 152	4 142	4 106	4 039	-
45	-	4 507	4 558	4 597	4 618	4 618	4 594	4 542	-
50	-	-	5 070	5 110	5 136	5 142	5 126	5 084	-
55	-	-	-	5 689	5 714	5 723	5 711	5 675	-
60	-	-	-	-	6 361	6 368	6 357	6 323	-
65	-	-	-	-	-	7 086	7 071	7 036	-

Current consumption in A

30	19.22	19.27	19.48	19.68	19.69	19.34	18.46	16.87	-
35	20.20	20.39	20.77	21.17	21.41	21.32	20.72	19.45	-
40	21.56	21.80	22.26	22.76	23.13	23.20	22.79	21.74	-
45	-	23.70	24.13	24.64	25.04	25.17	24.86	23.93	-
50	-	-	26.57	26.99	27.33	27.43	27.12	26.21	-
55	-	-	-	30.01	30.19	30.16	29.75	28.77	-
60	-	-	-	-	33.81	33.55	32.94	31.79	-
65	-	-	-	-	-	37.79	36.88	35.47	-

Mass flow in kg/h

30	126	157	190	229	275	329	395	473	-
35	118	152	187	226	270	321	382	453	-
40	103	142	181	221	265	315	372	438	-
45	-	125	169	213	259	308	363	427	-
50	-	-	151	200	249	300	355	417	-
55	-	-	-	181	235	289	346	407	-
60	-	-	-	-	214	273	333	396	-
65	-	-	-	-	-	252	316	382	-

Coefficient of performance (C.O.P.)

30	2.00	2.49	3.04	3.69	4.49	5.49	6.78	8.45	-
35	1.62	2.09	2.58	3.13	3.79	4.58	5.58	6.84	-
40	1.21	1.68	2.15	2.64	3.19	3.84	4.63	5.60	-
45	-	1.27	1.72	2.18	2.66	3.21	3.85	4.62	-
50	-	-	1.31	1.75	2.19	2.66	3.20	3.83	-
55	-	-	-	1.33	1.75	2.18	2.64	3.16	-
60	-	-	-	-	1.34	1.74	2.15	2.60	-
65	-	-	-	-	-	1.33	1.71	2.10	-

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

Cooling capacity	16 479	W
Power input	5 625	W
Current consumption	29.06	A
Mass flow	373	kg/h
C.O.P.	2.93	

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

All performance data +/- 5%

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