

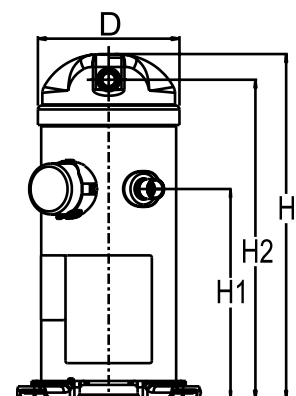
Datasheets

Danfoss scroll compressors **H series**



General Characteristics

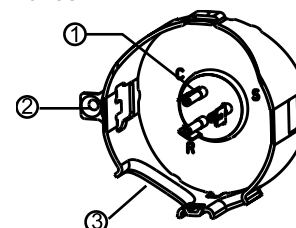
Model number (on compressor nameplate)		HLJ072T5LP6
Code number for Singlepack*		120U1346
Code number for Industrial pack**		120U1343
Drawing number		0XR6002B-2
Suction and discharge connections		Brazed
Suction connection		7/8 " ODF
Discharge connection		1/2 " ODF
Oil sight glass		None
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		Yes
Swept volume	67,97 cm ³ /rev	
Displacement @ Nominal speed	11.8 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	5 300	7 370	9 533	11 878	14 494	17 468	20 892	24 854	-
35	4 579	6 624	8 734	10 997	13 501	16 334	19 585	23 344	-
40	3 855	5 870	7 922	10 098	12 487	15 174	18 250	21 801	-
45	-	5 087	7 077	9 162	11 430	13 968	16 862	20 201	-
50	-	-	6 178	8 166	10 309	12 691	15 399	18 520	-
55	-	-	-	7 090	9 099	11 318	13 831	16 725	-
60	-	-	-	-	7 774	9 818	12 125	14 779	-
65	-	-	-	-	-	8 145	10 223	12 611	-

Power input in W

30	3 659	3 724	3 737	3 706	3 638	3 540	3 418	3 280	-
35	3 994	4 074	4 104	4 093	4 046	3 971	3 875	3 765	-
40	4 424	4 510	4 549	4 547	4 513	4 453	4 373	4 281	-
45	-	5 043	5 080	5 080	5 049	4 994	4 921	4 839	-
50	-	-	5 710	5 702	5 665	5 605	5 531	5 449	-
55	-	-	-	6 423	6 370	6 298	6 213	6 122	-
60	-	-	-	-	7 177	7 082	6 977	6 868	-
65	-	-	-	-	-	7 969	7 834	7 697	-

Current consumption in A

30	18.93	18.85	18.72	18.55	18.30	17.98	17.56	17.04	-
35	21.23	21.08	20.91	20.71	20.46	20.16	19.80	19.35	-
40	23.87	23.62	23.38	23.13	22.87	22.58	22.24	21.85	-
45	-	26.56	26.23	25.92	25.62	25.31	24.98	24.62	-
50	-	-	29.55	29.15	28.79	28.45	28.11	27.76	-
55	-	-	-	32.92	32.48	32.08	31.71	31.36	-
60	-	-	-	-	36.77	36.30	35.88	35.51	-
65	-	-	-	-	-	41.19	40.71	40.29	-

Mass flow in kg/h

30	111	152	194	238	287	342	405	478	-
35	101	143	186	232	281	336	398	470	-
40	91	134	179	224	274	329	391	463	-
45	-	124	169	216	266	321	383	453	-
50	-	-	158	206	256	311	372	442	-
55	-	-	-	192	243	298	359	428	-
60	-	-	-	-	226	281	342	411	-
65	-	-	-	-	-	260	321	389	-

Coefficient of performance (C.O.P.)

30	1.45	1.98	2.55	3.21	3.98	4.94	6.11	7.58	-
35	1.15	1.63	2.13	2.69	3.34	4.11	5.05	6.20	-
40	0.87	1.30	1.74	2.22	2.77	3.41	4.17	5.09	-
45	-	1.01	1.39	1.80	2.26	2.80	3.43	4.17	-
50	-	-	1.08	1.43	1.82	2.26	2.78	3.40	-
55	-	-	-	1.10	1.43	1.80	2.23	2.73	-
60	-	-	-	-	1.08	1.39	1.74	2.15	-
65	-	-	-	-	-	1.02	1.30	1.64	-

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

Cooling capacity	15 399	W
Power input	5 531	W
Current consumption	28.11	A
Mass flow	372	kg/h
C.O.P.	2.78	

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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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	5 724	7 951	10 274	12 789	15 591	18 775	22 436	26 670	-
35	4 977	7 191	9 471	11 912	14 610	17 659	21 156	25 195	-
40	4 223	6 421	8 655	11 020	13 610	16 522	19 851	23 691	-
45	-	5 618	7 803	10 088	12 569	15 341	18 499	22 139	-
50	-	-	6 893	9 096	11 464	14 093	17 078	20 514	-
55	-	-	-	8 020	10 274	12 757	15 566	18 795	-
60	-	-	-	-	8 975	11 309	13 939	16 959	-
65	-	-	-	-	-	9 728	12 177	14 984	-

Power input in W

30	3 659	3 724	3 737	3 706	3 638	3 540	3 418	3 280	-
35	3 994	4 074	4 104	4 093	4 046	3 971	3 875	3 765	-
40	4 424	4 510	4 549	4 547	4 513	4 453	4 373	4 281	-
45	-	5 043	5 080	5 080	5 049	4 994	4 921	4 839	-
50	-	-	5 710	5 702	5 665	5 605	5 531	5 449	-
55	-	-	-	6 423	6 370	6 298	6 213	6 122	-
60	-	-	-	-	7 177	7 082	6 977	6 868	-
65	-	-	-	-	-	7 969	7 834	7 697	-

Current consumption in A

30	18.93	18.85	18.72	18.55	18.30	17.98	17.56	17.04	-
35	21.23	21.08	20.91	20.71	20.46	20.16	19.80	19.35	-
40	23.87	23.62	23.38	23.13	22.87	22.58	22.24	21.85	-
45	-	26.56	26.23	25.92	25.62	25.31	24.98	24.62	-
50	-	-	29.55	29.15	28.79	28.45	28.11	27.76	-
55	-	-	-	32.92	32.48	32.08	31.71	31.36	-
60	-	-	-	-	36.77	36.30	35.88	35.51	-
65	-	-	-	-	-	41.19	40.71	40.29	-

Mass flow in kg/h

30	110	151	192	236	285	340	402	475	-
35	100	143	185	230	279	334	396	467	-
40	90	134	177	223	272	327	389	459	-
45	-	123	168	215	264	319	380	450	-
50	-	-	157	204	254	309	370	439	-
55	-	-	-	191	241	296	357	425	-
60	-	-	-	-	225	280	340	408	-
65	-	-	-	-	-	259	319	386	-

Coefficient of performance (C.O.P.)

30	1.56	2.14	2.75	3.45	4.29	5.30	6.56	8.13	-
35	1.25	1.77	2.31	2.91	3.61	4.45	5.46	6.69	-
40	0.95	1.42	1.90	2.42	3.02	3.71	4.54	5.53	-
45	-	1.11	1.54	1.99	2.49	3.07	3.76	4.58	-
50	-	-	1.21	1.60	2.02	2.51	3.09	3.76	-
55	-	-	-	1.25	1.61	2.03	2.51	3.07	-
60	-	-	-	-	1.25	1.60	2.00	2.47	-
65	-	-	-	-	-	1.22	1.55	1.95	-

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

Cooling capacity	17 127	W
Power input	6 088	W
Current consumption	31.10	A
Mass flow	388	kg/h
C.O.P.	2.81	

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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