

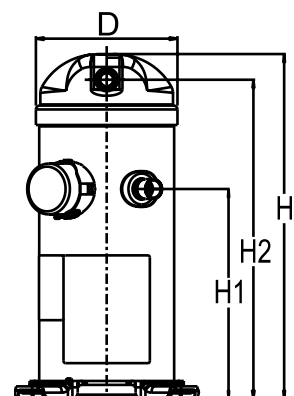
Datasheets

Danfoss scroll compressors **H series**



General Characteristics

Model number (on compressor nameplate)		HLP075T5LP6
Code number for Singlepack*		120U1641
Code number for Industrial pack**		120U1638
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		102,75 cm ³ /rev
Displacement @ Nominal speed		17.9 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		R407C

Dimensions


D=183,5 mm

H=455 mm

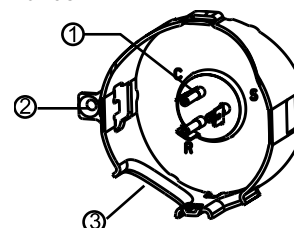
H1=280 mm

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)	28.8 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

Datasheet, performance data

Danfoss scroll compressor. HLP075T5

Performance data at 50 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	5 307	7 023	9 005	11 317	14 025	17 191	20 881	25 159
35	-	4 877	6 532	8 431	10 639	13 219	16 235	19 751	23 832
40	-	4 427	6 013	7 822	9 917	12 362	15 220	18 554	22 430
45	-	-	5 473	7 183	9 158	11 459	14 151	17 296	20 959
50	-	-	-	6 520	8 366	10 516	13 034	15 982	19 424
55	-	-	-	-	7 546	9 537	11 873	14 615	17 827
60	-	-	-	-	-	8 528	10 673	13 201	16 174
65	-	-	-	-	-	-	9 437	11 742	14 468

Power input in W

30	-	3 481	3 409	3 366	3 335	3 302	3 252	3 168	3 037
35	-	3 920	3 841	3 795	3 766	3 738	3 697	3 627	3 513
40	-	4 424	4 331	4 275	4 240	4 211	4 173	4 110	4 007
45	-	-	4 909	4 836	4 789	4 753	4 710	4 648	4 549
50	-	-	-	5 508	5 443	5 391	5 339	5 270	5 169
55	-	-	-	-	6 230	6 158	6 088	6 006	5 897
60	-	-	-	-	-	7 082	6 989	6 887	6 763
65	-	-	-	-	-	-	8 070	7 943	7 796

Current consumption in A

30	-	16.96	17.08	17.10	17.01	16.79	16.43	15.93	15.28
35	-	19.00	19.05	19.03	18.94	18.75	18.47	18.07	17.55
40	-	21.29	21.24	21.17	21.04	20.86	20.62	20.30	19.89
45	-	-	23.82	23.64	23.46	23.26	23.02	22.74	22.42
50	-	-	-	26.61	26.33	26.08	25.82	25.56	25.28
55	-	-	-	-	29.81	29.47	29.16	28.89	28.63
60	-	-	-	-	-	33.56	33.18	32.86	32.59
65	-	-	-	-	-	-	38.02	37.63	37.32

Mass flow in kg/h

30	-	119	155	195	241	293	354	423	503
35	-	115	151	191	237	290	350	419	498
40	-	111	147	187	233	285	345	413	492
45	-	-	142	182	227	278	338	406	483
50	-	-	-	175	220	271	329	396	473
55	-	-	-	-	212	262	319	385	461
60	-	-	-	-	-	251	308	373	447
65	-	-	-	-	-	-	294	358	431

Coefficient of performance (C.O.P.)

30	-	1.52	2.06	2.68	3.39	4.25	5.29	6.59	8.29
35	-	1.24	1.70	2.22	2.83	3.54	4.39	5.45	6.78
40	-	1.00	1.39	1.83	2.34	2.94	3.65	4.51	5.60
45	-	-	1.11	1.49	1.91	2.41	3.00	3.72	4.61
50	-	-	-	1.18	1.54	1.95	2.44	3.03	3.76
55	-	-	-	-	1.21	1.55	1.95	2.43	3.02
60	-	-	-	-	-	1.20	1.53	1.92	2.39
65	-	-	-	-	-	-	1.17	1.48	1.86

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

Cooling capacity	15 982	W
Power input	5 270	W
Current consumption	25.56	A
Mass flow	396	kg/h
C.O.P.	3.03	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	71	dB(A)
With accoustic 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
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	5 699	7 532	9 647	12 111	14 992	18 357	22 276	26 814
35	-	5 263	7 040	9 075	11 437	14 194	17 412	21 161	25 506
40	-	4 806	6 517	8 466	10 718	13 342	16 406	19 977	24 122
45	-	-	5 970	7 824	9 959	12 443	15 344	18 729	22 666
50	-	-	-	7 155	9 164	11 500	14 231	17 423	21 144
55	-	-	-	-	8 339	10 520	13 071	16 062	19 560
60	-	-	-	-	-	9 506	11 871	14 653	17 919
65	-	-	-	-	-	-	10 635	13 200	16 226

Power input in W

30	-	3 481	3 409	3 366	3 335	3 302	3 252	3 168	3 037
35	-	3 920	3 841	3 795	3 766	3 738	3 697	3 627	3 513
40	-	4 424	4 331	4 275	4 240	4 211	4 173	4 110	4 007
45	-	-	4 909	4 836	4 789	4 753	4 710	4 648	4 549
50	-	-	-	5 508	5 443	5 391	5 339	5 270	5 169
55	-	-	-	-	6 230	6 158	6 088	6 006	5 897
60	-	-	-	-	-	7 082	6 989	6 887	6 763
65	-	-	-	-	-	-	8 070	7 943	7 796

Current consumption in A

30	-	16.96	17.08	17.10	17.01	16.79	16.43	15.93	15.28
35	-	19.00	19.05	19.03	18.94	18.75	18.47	18.07	17.55
40	-	21.29	21.24	21.17	21.04	20.86	20.62	20.30	19.89
45	-	-	23.82	23.64	23.46	23.26	23.02	22.74	22.42
50	-	-	-	26.61	26.33	26.08	25.82	25.56	25.28
55	-	-	-	-	29.81	29.47	29.16	28.89	28.63
60	-	-	-	-	-	33.56	33.18	32.86	32.59
65	-	-	-	-	-	-	38.02	37.63	37.32

Mass flow in kg/h

30	-	118	154	194	239	292	352	421	500
35	-	115	150	190	236	288	348	417	495
40	-	111	146	186	231	283	343	411	489
45	-	-	141	181	226	277	336	403	481
50	-	-	-	174	219	269	328	394	471
55	-	-	-	-	210	260	318	383	459
60	-	-	-	-	-	250	306	370	444
65	-	-	-	-	-	-	293	356	428

Coefficient of performance (C.O.P.)

30	-	1.64	2.21	2.87	3.63	4.54	5.65	7.03	8.83
35	-	1.34	1.83	2.39	3.04	3.80	4.71	5.83	7.26
40	-	1.09	1.50	1.98	2.53	3.17	3.93	4.86	6.02
45	-	-	1.22	1.62	2.08	2.62	3.26	4.03	4.98
50	-	-	-	1.30	1.68	2.13	2.67	3.31	4.09
55	-	-	-	-	1.34	1.71	2.15	2.67	3.32
60	-	-	-	-	-	1.34	1.70	2.13	2.65
65	-	-	-	-	-	-	1.32	1.66	2.08

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

Cooling capacity	17 712	W
Power input	5 868	W
Current consumption	28.34	A
Mass flow	417	kg/h
C.O.P.	3.02	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	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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Datasheet, performance data

Danfoss scroll compressor. HLP075T5

Performance data at 50 Hz, EN 12900 rating conditions

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	5 307	7 023	9 005	11 317	14 025	17 191	20 881	25 159
35	-	4 877	6 532	8 431	10 639	13 219	16 235	19 751	23 832
40	-	4 427	6 013	7 822	9 917	12 362	15 220	18 554	22 430
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55	-	-	-	-	7 546	9 537	11 873	14 615	17 827
60	-	-	-	-	-	8 528	10 673	13 201	16 174
65	-	-	-	-	-	-	9 437	11 742	14 468

Power input in W

30	-	3 481	3 409	3 366	3 335	3 302	3 252	3 168	3 037
35	-	3 920	3 841	3 795	3 766	3 738	3 697	3 627	3 513
40	-	4 424	4 331	4 275	4 240	4 211	4 173	4 110	4 007
45	-	-	4 909	4 836	4 789	4 753	4 710	4 648	4 549
50	-	-	-	5 508	5 443	5 391	5 339	5 270	5 169
55	-	-	-	-	6 230	6 158	6 088	6 006	5 897
60	-	-	-	-	-	7 082	6 989	6 887	6 763
65	-	-	-	-	-	-	8 070	7 943	7 796

Current consumption in A

30	-	16.96	17.08	17.10	17.01	16.79	16.43	15.93	15.28
35	-	19.00	19.05	19.03	18.94	18.75	18.47	18.07	17.55
40	-	21.29	21.24	21.17	21.04	20.86	20.62	20.30	19.89
45	-	-	23.82	23.64	23.46	23.26	23.02	22.74	22.42
50	-	-	-	26.61	26.33	26.08	25.82	25.56	25.28
55	-	-	-	-	29.81	29.47	29.16	28.89	28.63
60	-	-	-	-	-	33.56	33.18	32.86	32.59
65	-	-	-	-	-	-	38.02	37.63	37.32

Mass flow in kg/h

30	-	119	155	195	241	293	354	423	503
35	-	115	151	191	237	290	350	419	498
40	-	111	147	187	233	285	345	413	492
45	-	-	142	182	227	278	338	406	483
50	-	-	-	175	220	271	329	396	473
55	-	-	-	-	212	262	319	385	461
60	-	-	-	-	-	251	308	373	447
65	-	-	-	-	-	-	294	358	431

Coefficient of performance (C.O.P.)

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35	-	1.24	1.70	2.22	2.83	3.54	4.39	5.45	6.78
40	-	1.00	1.39	1.83	2.34	2.94	3.65	4.51	5.60
45	-	-	1.11	1.49	1.91	2.41	3.00	3.72	4.61
50	-	-	-	1.18	1.54	1.95	2.44	3.03	3.76
55	-	-	-	-	1.21	1.55	1.95	2.43	3.02
60	-	-	-	-	-	1.20	1.53	1.92	2.39
65	-	-	-	-	-	-	1.17	1.48	1.86

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

Cooling capacity	15 982	W
Power input	5 270	W
Current consumption	25.56	A
Mass flow	396	kg/h
C.O.P.	3.03	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	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
R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
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Cooling capacity in W

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35	-	5 263	7 040	9 075	11 437	14 194	17 412	21 161	25 506
40	-	4 806	6 517	8 466	10 718	13 342	16 406	19 977	24 122
45	-	-	5 970	7 824	9 959	12 443	15 344	18 729	22 666
50	-	-	-	7 155	9 164	11 500	14 231	17 423	21 144
55	-	-	-	-	8 339	10 520	13 071	16 062	19 560
60	-	-	-	-	-	9 506	11 871	14 653	17 919
65	-	-	-	-	-	-	10 635	13 200	16 226

Power input in W

30	-	3 481	3 409	3 366	3 335	3 302	3 252	3 168	3 037
35	-	3 920	3 841	3 795	3 766	3 738	3 697	3 627	3 513
40	-	4 424	4 331	4 275	4 240	4 211	4 173	4 110	4 007
45	-	-	4 909	4 836	4 789	4 753	4 710	4 648	4 549
50	-	-	-	5 508	5 443	5 391	5 339	5 270	5 169
55	-	-	-	-	6 230	6 158	6 088	6 006	5 897
60	-	-	-	-	-	7 082	6 989	6 887	6 763
65	-	-	-	-	-	-	8 070	7 943	7 796

Current consumption in A

30	-	16.96	17.08	17.10	17.01	16.79	16.43	15.93	15.28
35	-	19.00	19.05	19.03	18.94	18.75	18.47	18.07	17.55
40	-	21.29	21.24	21.17	21.04	20.86	20.62	20.30	19.89
45	-	-	23.82	23.64	23.46	23.26	23.02	22.74	22.42
50	-	-	-	26.61	26.33	26.08	25.82	25.56	25.28
55	-	-	-	-	29.81	29.47	29.16	28.89	28.63
60	-	-	-	-	-	33.56	33.18	32.86	32.59
65	-	-	-	-	-	-	38.02	37.63	37.32

Mass flow in kg/h

30	-	118	154	194	239	292	352	421	500
35	-	115	150	190	236	288	348	417	495
40	-	111	146	186	231	283	343	411	489
45	-	-	141	181	226	277	336	403	481
50	-	-	-	174	219	269	328	394	471
55	-	-	-	-	210	260	318	383	459
60	-	-	-	-	-	250	306	370	444
65	-	-	-	-	-	-	293	356	428

Coefficient of performance (C.O.P.)

30	-	1.64	2.21	2.87	3.63	4.54	5.65	7.03	8.83
35	-	1.34	1.83	2.39	3.04	3.80	4.71	5.83	7.26
40	-	1.09	1.50	1.98	2.53	3.17	3.93	4.86	6.02
45	-	-	1.22	1.62	2.08	2.62	3.26	4.03	4.98
50	-	-	-	1.30	1.68	2.13	2.67	3.31	4.09
55	-	-	-	-	1.34	1.71	2.15	2.67	3.32
60	-	-	-	-	-	1.34	1.70	2.13	2.65
65	-	-	-	-	-	-	1.32	1.66	2.08

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

Cooling capacity	17 712	W
Power input	5 868	W
Current consumption	28.34	A
Mass flow	417	kg/h
C.O.P.	3.02	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	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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