



Datasheets

Danfoss scroll compressors **H series**



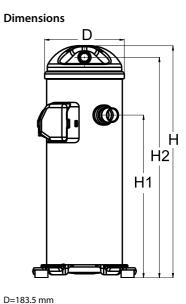
Danfoss

Datasheet, technical data

Danfoss scroll compressor, HLH068T4

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 cm	13/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	- ba	ar	
Maximum number of starts per hour	-		
Refrigerant charge limit	5.44	kg	
Approved refrigerants	R410	A	



Electrical Characteristics

Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz	H=455 mm
Voltage range	342-457 V @ 50Hz - 414-506 V @ 60Hz	H1=280 mm
Winding resistance between phases 1-2 +/- 7% at 25°C	2.116 Ω	H2=422 mm
Winding resistance between phases 1-3 +/- 7% at 25°C	2.088 Ω	H3=- mm
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	Terminal b
Motor protection	Internal overload protector	

Recommended Installation torgues

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

Terminal box



IP22

1: Screw connectors 10-32 UNF x 9.5

- 2: Earth connection
- 3: Power cable passage



Datasheet, accessories and spare parts

Danfoss scroll compressor, HLH068T4

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	Solder sleeve adapter set
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	1 2 3 4
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009	
Oil / lubricants	Code no.	1: Rotolock adapter (Suc & Dis)
PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034	2: Gasket (Suc & Dis)
		3: Solder sleeve (Suc & Dis)
Crankcase heaters	Code no.	4: Rotolock nut (Suc & Dis)
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	

Danfoss scroll compressor. HLH068T4

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R410A

Performance data at 50 Hz, EN 12900 rating conditions

Cond. temp. in				Evapora	ating temperatur	e in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
ooling capacity	r 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	-
ower input in V	1			-			-		
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	-
urrent consum	ption 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	-
			•				•		
/lass 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	-
			•	•			•		
oefficient of pe	rformance (C.C).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	-
-			ı	u	۲ <u>ــــــــــــــــــــــــــــــــــــ</u>				
Iominal perform	ance at to = 5	°C, tc = 50 °C				Pressure switch	settings		
cooling capacity		14 966	W			Maximum HP swit	-	45	bar(g)
ower input		4 807	W			Minimum LP switc	h setting	1.5	bar(g)
Current consump	tion	8.23	A			LP pump down se	tting	2.3	bar(g)
lass flow		362	kg/h			•			
		3.11		1		Sound power dat	a		
C.O.P.						Sound power leve		71	dB(A)

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

Danfoss scroll compressor. HLH068T4

Danfoss

R410A

Performance data at 50 Hz, ARI rating conditions

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

50	5114	0 107	5 105	0 101	5 17 0	0 100	5 001	2 300	_
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.)

to: Evaporating temperature at dew point tc: Condensing temperature at dew point

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, t	c = 54.4 °C	
Cooling capacity	16 876	W
Power input	5 258	W
Current consumption	8.82	А
Mass flow	382	kg/h
COR	3 21	

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

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 accoustic hood	66	dB(A)

Tolerance according EN12900

Danfoss scroll compressor. HLH068T4

Danfoss

R410A

Performance data at 60 Hz, EN 12900 rating conditions

Cond. temp. in		-		Evapora	ating temperatur	e in °C (to)		-	
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
ooling capacity		0.010	40.057	40.000	40.000	40.007	00.400	00.045	
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	-
ower 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	-
45 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	-
	-	_		-	-	1011	1000	1013	-
urrent consum	otion 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	-
lass flow in kg/l		<u> </u>		1	1				
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	-
oefficient of pe	rformance (C.C) 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	-
		11		1	1			-	
lominal perform	ance at to = 5					Pressure switch	-		
Cooling capacity		17 824	W			Maximum HP swit	•	45	bar(g)
Power input		5 757	W			Minimum LP swite	-	1.5	bar(g)
Current consumpt Aass flow	ion	8.34 431	A kg/h			LP pump down se	tting	2.3	bar(g)
C.O.P.		431 3.10	NY/II			Sound power dat	a		
		5.10				200.00 power ua			
.0.1						Sound power leve	1	74	dB(A)

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

Danfoss scroll compressor. HLH068T4

Danfoss

R410A

Performance data at 60 Hz, ARI rating conditions

Cond. temp. in	Evaporating temperature in °C (to)									
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15	
Cooling capacit	v 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	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	Α			
Mass flow	455	kg/h			
COP	3 20				

45	bar(g)
1.5	bar(g)
2.3	bar(g)
74	dB(A)
69	dB(A)
	1.5 2.3 74

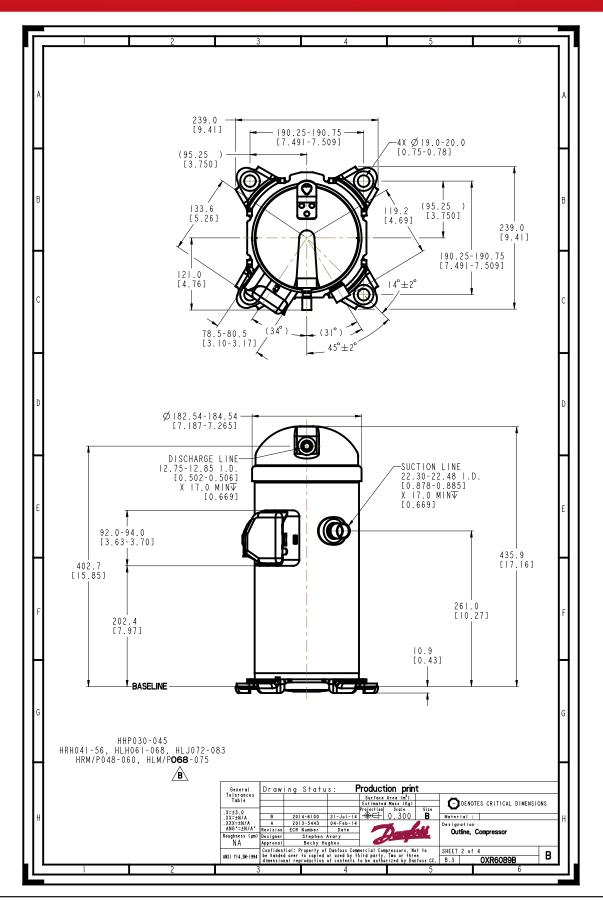
Tolerance according EN12900

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

ENGINEERING TOMORROW



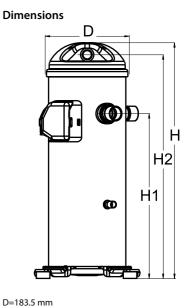
Danfoss

Datasheet, technical data

Danfoss scroll compressor, HLH068T4

General Characteristics

Model number (on compressor nameplate)	HLH068T	4LC8			
Code number for Singlepack*	120U24	17			
Code number for Industrial pack**	120U24	14			
Drawing number	0XR6049	B-2			
Suction and discharge connections	Brazeo	b			
Suction connection	7/8 " OI	DF			
Discharge connection	1/2 " 0[DF			
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				



Electrical Characteristics

Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz	D=183.5 mm
Voltage range	342-457 V @ 50Hz - 414-506 V @ 60Hz	H=455 mm H1=280 mm
Winding resistance between phases 1-2 +/- 7% at 25℃	2.116 Ω	
Winding resistance between phases 1-3 +/- 7% at 25℃	2.088 Ω	H2=422 mm
Winding resistance between phases 2-3 +/- 7% at 25°C	2.072 Ω	H3=- mm
Rated Load Amps (RLA)	12.2 A	
Maximum Continuous Current (MCC)	19 A	
Locked Rotor Amps (LRA)	87 A	Terminal b
Motor protection	Internal overload protector	Terminark

Recommended Installation torgues

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

erminal box



IP22 1:

3:

Screw connectors 10-32 UNF x 9.5

2: Earth connection

Power cable passage





Datasheet, accessories and spare parts

Danfoss scroll compressor, HLH068T4

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	Solder sleeve adapter set
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	1 2 3 4
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009	
Oil / lubricants	Code no.	1: Rotolock adapter (Suc & Dis)
PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034	2: Gasket (Suc & Dis)
		3: Solder sleeve (Suc & Dis)
Crankcase heaters	Code no.	4: Rotolock nut (Suc & Dis)
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	

Danfoss scroll compressor. HLH068T4

Danfoss

R410A

Performance data at 50 Hz, EN 12900 rating conditions

Cond. temp. in				Evapora	ating temperatur	e in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
ooling capacity	r 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	-
ower input in V	1			-			-		
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	-
urrent consum	ption 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	-
			•				•		
/lass 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	-
			•				•		
oefficient of pe	rformance (C.C).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	-
-			ı	u	ι				
Iominal perform	ance at to = 5	°C, tc = 50 °C				Pressure switch	settings		
cooling capacity		14 966	W			Maximum HP swit	-	45	bar(g)
ower input		4 807	W			Minimum LP switc	h setting	1.5	bar(g)
Current consump	tion	8.23	A			LP pump down se	tting	2.3	bar(g)
lass flow		362	kg/h			•			
		3.11		1		Sound power dat	a		
C.O.P.						Sound power leve		71	dB(A)

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

Danfoss scroll compressor. HLH068T4

Danfoss

R410A

Performance data at 50 Hz, ARI rating conditions

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

50	5114	0 107	5 105	0 101	5 17 0	0 100	5 001	2 300	_
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.)

to: Evaporating temperature at dew point tc: Condensing temperature at dew point

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, t	c = 54.4 °C	
Cooling capacity	16 876	W
Power input	5 258	W
Current consumption	8.82	А
Mass flow	382	kg/h
COR	3 21	

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

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 accoustic hood	66	dB(A)

Tolerance according EN12900

Danfoss scroll compressor. HLH068T4

Danfoss

R410A

Performance data at 60 Hz, EN 12900 rating conditions

Power input 5 757 W Minimum LP switch setting 1.5 Current consumption 8.34 A LP pump down setting 2.3 Mass flow 431 kg/h 5000000000000000000000000000000000000	Cond. temp. in					ating temperatu		1	1 1	
30 7 001 8 810 10 857 13 220 16 036 19 397 22 420 20 22 15 40 5 246 7 336 9 481 11 723 14 247 17 126 22 454 24 845 24 844 24 844 24 845 24 844 24 845 24 844 24 844 24 845 24 844 <t< th=""><th>°C (tc)</th><th>-25</th><th>-20</th><th>-15</th><th>-10</th><th>-5</th><th>0</th><th>5</th><th>10</th><th>15</th></t<>	°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
30 7 001 8 190 10 887 13 220 16 038 19 37 22 420 20 22 15 40 5 248 7 336 9 401 11 723 14 247 17 128 22 184 20 455 46 - 6 206 8 480 10 804 13 237 16 036 10 196 22 758 56 - - 7 208 0 606 12 170 14 486 17 244 21 176 56 - - - 0 142 11 888 14 732 17 75 68 - - - 0 14 231 43 732 15 691 30 5 728 3 779 3 810 3 610 5 204 6 323 4 642 4 642 40 4 518 4 588 4 643 4 680 4 684 4 682 4 682 4 642 4 642 4 642 4 642 4 642 4 642 4 642 4 642 4 642 4 642 4 642 4 642 4 642 4 642 4 642 4 642		. i.e. 14/								
35 6.283 8.181 10.227 12.99 15.139 19.216 2.184 20.162 40 5.246 7.338 9.441 117.227 14.247 17.166 20.472 2.24.347 65 7.208 9.666 12.170 14.46.86 17.624 20.472 2.4.347 66 9.142 11.888 14.7.32 17.775 66 9.968 1.2.32 15.691 7000 3.728 3.779 3.610 3.611 3.753 3.671 3.550 51 9.968 4.644 4.642 4.550 60 7.03 5.775 5.777 6.709 561 7.677 7.689 7.691 500 7.677 7.787			9.910	10.957	12 226	16.026	10 207	22.420	29.215	
40 5 240 7 336 9 441 11 725 14 247 17 126 20 472 24 397 45 - 6 208 8 480 10 804 13 287 16 035 19 156 22 758 66 - - 7 208 9 666 12 170 14 486 17 824 21 176 65 - - - 0 142 11 885 16 722 17 75 66 - - - 0 142 11 885 14 732 17 75 66 - - - 0 142 11 885 14 732 17 75 700 3728 3 779 3 810 3 819 3 611 3 753 3 671 3 560 30 3728 3 779 6 138 5 180 5 204 5 177 5 178 65 - - - 6 364 6 444 6 480 4 682 4 580 65 - - - 7 704 <th7 101<="" th=""> 7 68 7 70</th7>										-
46 . 6 206 6 400 10 004 13 287 16 035 19 156 22 76 50 . . . 8 208 10 816 13 507 16 384 19 653 60 .										-
50 9 666 . 11 4685 17 224 21 176 6 55 9 142 11 888 14 732 1775 . 66 9 688 12 739 15 601 common set of the set of th										-
55 - - 8 208 10 816 19 597 16 384 19 533 1 565 - - - 0 142 11 888 14 775 6 65 - - - - 9 968 12 739 15 64 11 15 967 15 35 4096 4158 405 4230 4231 4203 4431 4048 4042 4048 4042 4058 4055 4624 4044 4048 4044 4044 4048 4044 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></td<>										-
60 . . . 9 142 11 888 14 732 17 775 85 9 088 12 739 15 681 10wer Input IN W 9 088 12 739 15 681 30 3 728 3 779 3 810 3 819 3 801 3 753 3 671 3 560 40 4 518 4 643 4 680 4 696 4 684 4 644 4 443 4 048 40 4 518 4 588 4 643 4 680 4 696 4 684 4 682 5 77 5 709 6 530 5 604 6 77 5 77 7 709 7 101 7 088 7 059 7 619 55 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7										-
66 . . . 9898 12 739 15 681 Dowar input in W 30 3 728 3 779 3 810 3 819 3 801 3 753 3 871 3 650 35 4 996 4 159 4 205 4 230 4 231 4 203 4 443 4 048 40 4 518 4 588 4 643 4 680 4 685 4 684 4 642 4 588 45 . 5 5076 5 718 5 777 5 777 5 779 7 785 7 777 7 785 7 789 7 685 7 711 7 719 7 285 7 31 7 719 7 285 7 31 7 719 7 285 7 31 7 719 7 285 7 31										-
Sover input in W Sover input in W 30 3 728 3 779 3 810 3 819 3 801 3 753 3 671 3 560 35 4 096 4 159 4 205 4 231 4 203 4 143 4 046 40 4 518 4 588 4 643 4 680 4 685 4 684 4 682 4 588 45 - 5 076 5 777 5 777 5 777 5 776 5 777 5 789 5 777 5 789 5 787 5 777 5 789 7 88 7 88 6 6 7 3 6 6 7 3 6 6 7 3 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			4 1							-
30 3783 3779 3810 3819 3801 3753 3671 3550 1 35 4.096 4.159 4.205 4.230 4.231 4.203 4.143 4.048 40 4.518 4.568 4.643 4.600 4.665 4.644 4.642 4.666 45 - 5.076 5.777 5.776 5.777 5.776 5.777 5.789 7.619 7.620 7.63 7.63 7.63 7.63 7.63 7.63 7.63 7.63 7.63 7.78 7.78 7.78 7.78 7.78 7.78 7.65 7.7 7.65 7.7 7.78 7.78 7.65	65	-	-	-	-	-	9 898	12739	15 691	-
35 4 096 4 159 4 205 4 231 4 203 4 143 4 046 40 4 518 4 588 4 643 4 660 4 665 4 694 4 642 4 566 45 - 5 076 5 136 5 160 5 204 5 204 5 777 5 777 5 779 5 779 5 779 7 709 7 899 7 819 0 6 391 6 404 6 391 6 404 6 391 6 404 6 391 6 404 6 391 6 395 6 394 6 404 6 391 6 53 6 55 - - - 7 704 7 101 7 088 7 050 1 400 6 24 6 29 6 33 6 38 6 47 6 6 52 6 61 6 73 0 1 7 39 1 7 39 1 7 39 1 7 39 1 7 39 1 7 39 1 7 39 1 7 39 1 7 39 1 7 39 1 1 1 8 20 8 311 8 34	ower input in W	I								
40 4 518 4 588 4 643 4 680 4 695 4 684 4 642 4 568 45 - 5 076 5 138 5 180 5 204 5 777 5 777 5 709 55 - - - 6 362 6 394 6 404 6 391 6 350 60 - - - 7 094 7 101 7 086 7 050 65 - - - - 7 077 7 859 7 819 2urent consumption in A - - - 7 717 7 859 7 819 40 6.62 7.01 7.07 7.13 7.19 7.22 7.31 7.39 50 - 7.42 7.52 7.59 7.66 7.72 7.78 8.44 55 - - - 8.11 8.20 8.27 8.34 8.40 55 - - - 8.11 8.20 8.27 8.24 8.91	30	3 728	3 779	3 810	3 819	3 801	3 753	3 671	3 550	-
45 . 5 076 5 136 5 180 5 204 5 204 5 177 5 118 50 - - 5 692 5 739 5 775 5 776 5 775 5 775 5 775 5 776 5 775 5 785 7 819 7 6 6 6 6 6 6 6 6 7 7 8 7 7 7 7 8 6 7 8 6 7 7 7 7	35									-
45 . 5 076 5 138 5 180 5 204 5 204 5 177 5 118 50 . . . 5 692 5 739 5 775 5 775 5 779 55 7 765 5 777 5 778 7 789 60 7 094 7 101 7 088 7 050 85 7 877 7 859 7 819 2urret consumption in A . <td>40</td> <td>4 518</td> <td></td> <td></td> <td></td> <td>4 695</td> <td></td> <td>4 642</td> <td>4 568</td> <td>-</td>	40	4 518				4 695		4 642	4 568	-
60 . . 5 662 6 739 6 775 5 777 5 770 5 700 55 6 384 6 404 6 391 6 350 60 7 064 7 101 7 086 7 6050 65 7 064 7 101 7 086 7 6050 567 . <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>										-
55 . . . 6 365 6 394 6 404 6 391 6 350 60 7 094 7 101 7 089 7 650 65 7 877 7 859 7 819 30 6.24 6.29 6.33 6.36 6.44 6.52 6.61 6.73 30 6.24 6.29 6.33 6.36 6.73 6.79 8.85 6.92 7.02 40 6.57 7.66 7.72 7.78 7.85 . 50 . . 8.01 8.11 8.20 8.27 8.34 8.40 55 9.52 9.64 9.73 9.82 60 . . . 9.52 9.64 9.73 9.82 65 9.52 9.64 9.73 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>										-
60 . . . 7 094 7 101 7 088 7 050 65 7 877 7 859 7 819 urrent consumption in A 7 877 7 859 7 819 30 6.24 6.29 6.33 6.38 6.44 6.52 6.61 6.73 . 40 6.92 7.01 7.07 7.13 7.19 7.25 7.31 7.39 . 50 . . 8.01 8.11 8.20 8.27 8.34 8.40 55 9.62 . <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>		-								-
66 7 877 7 869 7 819 Current consumption in A 30 6.24 6.29 6.33 6.38 6.44 6.52 6.61 6.73 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 - - 8.71 8.82 8.91 8.99 9.66 65 - - - - 10.48 10.69 10.69 66 - - - - 10.48 10.69 10.69 735 138 1377 216 263 315 375 445 529 40 122 168 213 261 313		-	-	-						-
Surrent 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 - - - - 9.52 9.64 9.73 9.82 66 - - - - 10.46 10.59 10.69 Ass flow in kgh - - - - 10.46 10.59 10.69 30 146 181 220 265 318 381 456 547 35 138 177 218		-	-	-	-					-
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 60 - - - 9.52 9.64 9.73 9.82 65 60 - - - - - 10.46 10.59 10.69 tass flow in kg/h - - - - 10.46 10.59 10.89 45 - 151 203 255 309 368 455 510 50 - - 184 243 302 364 431			<u> </u>		•	•				
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 - - - - 10.46 10.59 10.69 65 - - - - 10.46 10.59 10.69 1ass flow in kgh - - - 10.46 10.59 52 9.06 30 146 181 220 265 318 381 456 547 45 - 151 203 255 309 368 435 510	urrent consum	ption in A			-			r		
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 10.89 tass flow in kg/h - <th< td=""><td>30</td><td>6.24</td><td>6.29</td><td>6.33</td><td>6.38</td><td>6.44</td><td>6.52</td><td>6.61</td><td>6.73</td><td>-</td></th<>	30	6.24	6.29	6.33	6.38	6.44	6.52	6.61	6.73	-
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 - - - - 9.52 9.64 9.73 9.82 65 - - - - - 10.46 10.59 10.69 Ass 146 181 220 265 318 381 456 547 40 122 168 213 261 313 371 439 517 45 - 151 203 265 309 368 435 510 50 - - - - 233 265 3.09 366 4426<	35	6.57	6.63	6.68	6.73	6.79	6.85	6.92	7.02	-
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 10 10.46 181 220 265 318 381 456 547 30 146 181 220 265 318 381 456 547 40 122 168 213 261 313 371 439 517 45 - 151 203 255 309 364 435 510 50 - - 184 243 302 364 426 501 55 - - - - 309 366 426 501	40	6.92	7.01	7.07	7.13	7.19	7.25	7.31	7.39	-
55 - - 8.71 8.82 8.91 8.99 9.06 60 - - - - 9.52 9.64 9.73 9.82 65 65 - - - - - 10.46 10.59 10.69 ass flow in kg/h - - - - - 10.46 10.59 10.69 ass flow 146 181 220 265 318 381 456 547 35 138 177 218 263 315 375 445 529 161 40 122 168 213 261 313 371 439 517 45 - 161 203 255 309 366 435 510 50 - - 122 268 341 416 494 65 - - - 268 341 416 494	45	-	7.42	7.52	7.59	7.66	7.72	7.78	7.85	-
So John J	50	-	-	8.01	8.11	8.20	8.27	8.34	8.40	-
65 - - - 10.46 10.59 10.69 tass 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 - - 223 289 356 426 501 60 - - 223 289 356 426 501 65 - - - 223 289 356 426 501 60 - - - 233 2.85 3.46 4.22 5.17 6.38 7.95 30 1.88 2.33 2.85 3.46 4.22 5.17 6.38 7.95	55	-	-	-	8.71	8.82	8.91	8.99	9.06	-
Also 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 - - - 223 289 366 426 501 60 - - - 223 289 366 426 501 60 - - - - 268 341 416 494 65 - - - - 319 400 484 style style 517 6.38 7.95 35 1.53 1.97 2.43 2.96 3.58 4.33 5.28 <td>60</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>9.52</td> <td>9.64</td> <td>9.73</td> <td>9.82</td> <td>-</td>	60	-	-	-	-	9.52	9.64	9.73	9.82	-
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 - 151 203 255 309 364 431 506 50 - - 184 243 302 364 431 506 55 - - - 223 289 366 426 501 60 - - - 223 289 366 426 501 60 - - - - 319 400 484 55 - - - - 319 400 484 56 - - - - 30 1.88 2.33 2.85 3.46 4.22 5.17	65	-	-	-	-	-	10.46	10.59	10.69	-
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 - 151 203 255 309 364 431 506 50 - - 184 243 302 364 431 506 55 - - - 223 289 356 426 501 60 - - - 223 289 356 426 501 65 - - - - - 319 400 484 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 </td <td></td>										
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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 Pressure switch settings 650 - - - - <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>		-								-
Scoefficient 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 Pressure switch settings Maximum HP switch setting 45 Maximum HP switch setting 1.5 LP pump down setting 1.5 LP pump down setting 2.3		-								-
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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 1.69 2.11 2.56 3.08 65 - - - 1.29 1.67 2.08 2.52 65 - - - - 1.26 1.62 2.01 17 824 W W Maximum HP switch setting 4.5 Cooling capacity 5 757 W Maximum LP switch setting 1.5 LP pump down setting 1.5 LP pump down setting 2.3 2.3 Sound power data 2.3	oefficient of pe	rformance (C.C	D.P.)							
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 - - 1.27 1.68 2.11 2.56 3.08 60 - - - 1.29 1.69 2.11 2.56 3.08 60 - - - 1.29 1.67 2.08 2.52 2.52 65 - - - - 1.26 1.62 2.01 Iominal performance at to = 5 °C, tc = 50 °C Cooling capacity 17 824 W W Maximum HP switch setting 45 Maximum LP switch setting 1.5 LP pump down setting 1.5 LP pump down setting 2.3 Mass flow 431 kg/h 3.10 Sound power data Sound power data	30	1.88	2.33	2.85	3.46	4.22	5.17	6.38	7.95	-
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 - - - - 1.29 1.67 2.08 2.52 65 - - - - 1.26 1.62 2.01 Image: Second secon	35	1.53	1.97	2.43	2.96	3.58	4.33	5.28	6.47	-
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 1.69 2.11 2.56 3.08 60 - - - 1.29 1.67 2.08 2.52 65 - - - - 1.26 1.62 2.01 Moninal performance at to = 5 °C, tc = 50 °C Cooling capacity 17 824 W W Power input 5 757 W Current consumption 8.34 A Aass flow 431 kg/h C.O.P. 3.10 Sound power data	40	1.16	1.60	2.04	2.51	3.03	3.66	4.41	5.34	-
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 - - - - 1.29 1.67 2.08 2.52 65 - - - - 1.26 1.62 2.01 1.62 Mominal performance at to = 5 °C, tc = 50 °C Cooling capacity 17 824 W W W Maximum HP switch setting 45 Soure input 5 757 W W Maximum LP switch setting 1.5 LP pump down setting 1.5 LP pump down setting 1.5 LP pump down setting 2.3 3	45	-	1.22	1.65	2.09	2.55	3.08	3.70	4.45	-
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 Sound power data		-	-	1.27	1.68	2.11	2.57	3.10	3.71	-
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 Sound power data	55	-	-	-	1.29	1.69	2.11	2.56	3.08	-
Aominal performance at to = 5 °C, tc = 50 °C Pressure switch settings 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 Sound power data	60	-	-		-	1.29	1.67			-
Cooling capacity 17 824 W Maximum HP switch setting 45 Power input 5 757 W Minimum LP switch setting 1.5 Current consumption 8.34 A LP pump down setting 2.3 Mass flow 431 kg/h Sound power data	65	-	-	-	-	-	1.26	1.62	2.01	-
cooling capacity 17 824 W Maximum HP switch setting 45 ower input 5 757 W Minimum LP switch setting 1.5 current consumption 8.34 A LP pump down setting 2.3 tass flow 431 kg/h Sound power data										
Power input 5 757 W Minimum LP switch setting 1.5 Current consumption 8.34 A LP pump down setting 2.3 Mass flow 431 kg/h 5000000000000000000000000000000000000		ance at to = 5						-		
Current consumption 8.34 A LP pump down setting 2.3 Mass flow 431 kg/h 5000000000000000000000000000000000000	• • •	o i i j					•		bar(g)	
/lass flow 431 kg/h 2.O.P. 3.10 Sound power data	•	tion						-		bar(g)
C.O.P. 3.10 Sound power data								uniy	2.3	bar(g)
							Sound power dat	а		
Sound power level 74									74	dB(A)

tc: Condensing temperature at dew point Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

Danfoss scroll compressor. HLH068T4

Danfoss

R410A

Performance data at 60 Hz, ARI rating conditions

Cond. temp. in		Evaporating temperature in °C (to)								
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15	
Cooling capacit	v 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	
COP	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 accoustic hood	69	dB(A)

Tolerance according EN12900

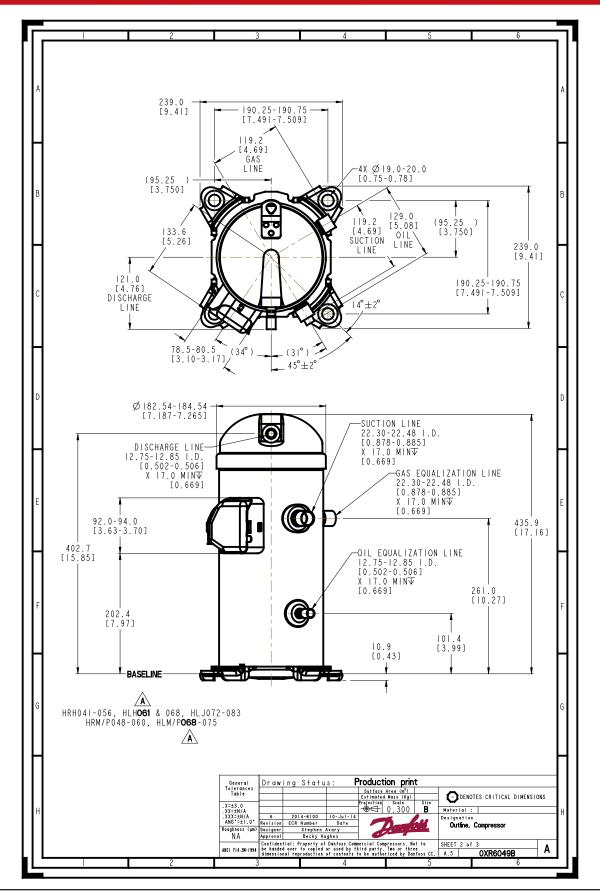
tc: Condensing temperature at dew point

to: Evaporating temperature at dew point

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



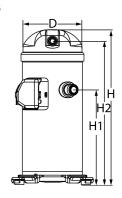
ENGINEERING TOMORROW



Datasheet, technical data

General Characteristics

Model number (on compressor nameplate)		HLH068T4LQ6	
Code number for Singlepack*		121U3125	
Code number for Industrial pack**		121U3124	Dimensions
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 ci	m3/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 litr	e, PVE	
Maximum system test pressure Low Side / High side	- bar(g)	/ - bar(g)	D=183.5 mm
Maximum differential test pressure	- k	Dar	H=455 mm
Maximum number of starts per hour		-	H1=280 mm
Refrigerant charge limit	5.4	4 kg	H2=422 mm
Approved refrigerants	R4	10A	H3=- mm



Danfoss scroll compressor, HLH068T4

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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

Recommended Installation torques

Recommended instantion torques		_
Oil sight glass	52.5 Nm	IP22
Power connections / Earth connection	3 Nm / 2 Nm	1-22

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

Terminal box



22

2:

3:

Screw connectors 10-32 UNF x 9.5

Earth connection

Power cable passage

Danfoss

Datasheet, accessories and spare parts

Danfoss scroll compressor, HLH068T4

Rotolock accessories, suction side	Code no.	
Rotolock accessories, discharge side	Code no.	
Rotolock accessories, sets	Code no.	Gaskets, sleeves and nuts
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	1 2 3
Belt type crankcase heater, 50 W, 400 V, CE mark, UL	120Z0058	
		1: Gasket
Miscellaneous accessories	Code no.	2: Solder sleeve
Acoustic hood	120Z5044	3: Rotolock nut
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	

Danfoss scroll compressor. HLH068T4

Danfoss

R410A

Performance data at 50 Hz, EN 12900 rating conditions

Cond. temp. in				Evapora	ating temperature	e in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
ooling capacity					1				
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	-
ower input in V	v								
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	
40	-	4 239	4 290	4 326	4 346	4 347	4 324	4 275	-
45 50	-		4 290	4 320	4 346	4 823	4 324	4 768	-
50 55	-	-	- 4755	5 315	5 339	5 347	5 336	5 302	-
55 60	-	-	-	-	5 339	5 347	5 336	5 302	-
60 65	-	-	-	-	- 5 923	6 576	6 561	5 886 6 527	-
00	-	-	-		-	0.070	0.001	0.021	-
urrent consum	ption 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	-
		•							
lass flow in kg/			1						
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 pe									
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	1.98	2.45	2.52	3.06	3.68	4.44	5.38	-
40 45	-	1.01	2.05	2.52	2.57	3.08	4.44 3.72	5.38 4.48	-
45 50	-	-	1.00	1.69	2.57	2.59		4.48 3.73	-
							3.11	1	
55	-	-	-	1.29	1.70	2.12	2.58	3.09	-
60 65	-	-	-	-	1.29	1.68	2.09	2.53	-
65	-	-	-	-	-	1.26	1.63	2.01	-
Iominal perform	nance at to = 5	°C, tc = 50 °C				Pressure switch	settings		
		14 966	W a			Maximum HP swit		45	bar(g)
Cooling capacity		4 807	W			Minimum LP switc	h setting	1.5	bar(g)
Cooling capacity Power input			•	1		LP pump down se	ttina	2.3	bar(g)
Cooling capacity Power input Current consump	tion	8.23	A			Er pump domn oc	ung	2.5	bai(g)
Cooling capacity Power input Current consump Mass flow	tion	362	A kg/h			,		2.5	bul(g)
	tion					Sound power dat	a	71	dB(A)

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

Danfoss scroll compressor. HLH068T4

Danfoss

R410A

Performance data at 50 Hz, ARI rating conditions

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

50	5114	0 107	5 105	0 101	5 17 0	0 100	5 001	2 300	_
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				

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 data Sound power level	71	dB(A)

Tolerance according EN12900

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Danfoss scroll compressor. HLH068T4

Danfoss

R410A

Performance data at 60 Hz, EN 12900 rating conditions

Power input 5 757 W Minimum LP switch setting 1.5 Current consumption 8.34 A LP pump down setting 2.3 Mass flow 431 kg/h 5000000000000000000000000000000000000	Cond. temp. in					ating temperatu		1	1 1		
30 7 001 8 810 10 857 13 220 16 036 19 397 22 420 20 22 15 40 5 246 7 336 9 481 11 723 14 247 17 126 22 454 24 845 24 844 24 844 24 845 24 844 24 845 24 844 24 844 24 845 24 844 <t< th=""><th>°C (tc)</th><th>-25</th><th>-20</th><th>-15</th><th>-10</th><th>-5</th><th>0</th><th>5</th><th>10</th><th>15</th></t<>	°C (tc)	-25	-20	-15	-10	-5	0	5	10	15	
30 7 001 8 190 10 887 13 220 16 038 19 37 22 420 20 22 15 40 5 248 7 336 9 401 11 723 14 247 17 128 22 184 20 455 46 - 6 206 8 480 10 804 13 237 16 036 10 196 22 758 56 - - 7 208 0 606 12 170 14 486 17 244 21 176 56 - - - 0 142 11 888 14 732 17 75 68 - - - 0 14 231 43 732 15 691 30 3 772 3 810 3 019 3 011 3 753 3 671 3 569 36 4 058 4 584 4 683 4 684 4 684 4 684 4 684 4 684 40 4 518 4 588 4 633 4 510 5 504 5 707 5 709 60 - - 6 036 5 804 6 404 6 320		. i.e. 14/									
35 6.283 8.181 10.227 12.99 15.139 19.216 2.184 20.162 40 5.246 7.338 9.441 117.227 14.247 17.166 20.472 2.24.347 65 7.208 9.666 12.170 14.46.86 17.624 20.472 2.4.347 66 9.142 11.888 14.7.32 17.775 66 9.968 1.2.32 15.691 7000 3.728 3.779 3.610 3.611 3.753 3.671 3.550 51 9.968 4.644 4.642 4.550 60 7.03 5.775 5.777 6.709 561 7.677 7.689 7.691 500 7.677 7.787			9.910	10.957	12 226	16.026	10 207	22.420	29.215		
40 5 240 7 336 9 441 11 725 14 247 17 126 20 472 24 397 45 - 6 208 8 480 10 804 13 287 16 035 19 156 22 758 66 - - 7 208 9 666 12 170 14 486 17 824 21 176 65 - - - 0 142 11 885 16 722 17 75 66 - - - 0 142 11 885 14 732 17 75 66 - - - 0 142 11 885 14 732 17 75 700 3728 3 779 3 810 3 819 3 611 3 753 3 671 3 560 30 3728 3 779 6 138 5 180 5 204 5 177 5 178 65 - - - 6 364 6 444 6 480 4 682 4 580 65 - - - 7 704 <th7 101<="" th=""> 7 68 7 70</th7>										-	
46 . 6 206 6 400 10 004 13 287 16 035 19 156 22 76 50 . . . 8 208 10 816 13 507 16 384 19 653 60 .										-	
50 9 666 . 11 4685 17 224 21 176 6 55 9 142 11 888 14 732 1775 . 66 .										-	
55 - - 8 208 10 816 19 597 16 384 19 533 1 565 - - - 0 142 11 888 14 775 6 65 - - - - 9 968 12 739 15 64 11 15 967 15 35 4096 4158 405 4230 4231 4203 4431 4048 4042 4048 4042 4058 4055 4624 4044 4048 4044 4044 4048 4044 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></td<>										-	
60 . . . 9 142 11 888 14 732 17 775 85 9 088 12 739 15 681 10wer Input IN W 9 088 12 739 15 681 30 3 728 3 779 3 810 3 819 3 801 3 753 3 671 3 560 40 4 518 4 643 4 680 4 696 4 684 4 644 4 443 4 048 40 4 518 4 588 4 643 4 680 4 696 4 684 4 682 5 77 5 709 6 530 5 604 6 77 5 77 7 709 7 101 7 088 7 059 7 619 55 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7										-	
66 . . . 9898 12 739 15 681 Dowar input in W 30 3 728 3 779 3 810 3 819 3 801 3 753 3 871 3 650 35 4 996 4 159 4 205 4 230 4 231 4 203 4 443 4 048 40 4 518 4 588 4 643 4 680 4 685 4 684 4 642 4 588 45 . 5 5076 5 718 5 777 5 777 5 779 7 785 7 777 7 785 7 789 7 685 7 711 7 719 7 285 7 31 7 719 7 285 7 31 7 719 7 285 7 31 7 719 7 285 7 31										-	
Sover input in W Sover input in W 30 3 728 3 779 3 810 3 819 3 801 3 753 3 671 3 560 35 4 096 4 159 4 205 4 231 4 203 4 143 4 046 40 4 518 4 588 4 643 4 680 4 685 4 684 4 682 4 588 45 - 5 076 5 777 5 777 5 777 5 776 5 777 5 789 5 777 5 789 5 787 5 777 5 789 7 88 7 88 6 6 7 3 6 6 7 3 6 6 7 3 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			4 1							-	
30 3783 3779 3810 3819 3801 3753 3671 3550 1 35 4.096 4.159 4.205 4.230 4.231 4.203 4.143 4.048 40 4.518 4.568 4.643 4.600 4.665 4.644 4.642 4.666 45 - 5.076 5.777 5.776 5.777 5.776 5.777 5.789 7.619 7.620 7.63 7.63 7.63 7.63 7.63 7.63 7.63 7.63 7.63 7.78 7.78 7.78 7.78 7.78 7.78 7.65 7.7 7.65 7.7 7.78 7.78 7.65	65	-	-	-	-	-	9 898	12739	15 691	-	
35 4 096 4 159 4 205 4 231 4 203 4 143 4 046 40 4 518 4 588 4 643 4 660 4 665 4 694 4 642 4 566 45 - 5 076 5 136 5 160 5 204 5 204 5 777 5 777 5 779 5 779 5 779 7 709 7 899 7 819 0 6 391 6 404 6 391 6 404 6 391 6 395 6 394 6 404 6 391 6 395 6 394 6 404 6 391 6 395 6 59 - - - 7 704 7 101 7 088 7 050 1 400 6 24 6 29 6 33 6 38 6 47 6 6 52 6 61 6 73 0 415 - 7 42 7 62 7 59 7 66 7 72 7 78 7 85 1 1 8 20 8 31 8 40 8 40 1 1 8 30 8 40 1 1 1 1 1 1 1 1 1 <td>ower input in W</td> <td>I</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	ower input in W	I									
40 4 518 4 588 4 643 4 680 4 695 4 684 4 642 4 568 45 - 5 076 5 138 5 180 5 204 5 777 5 777 5 709 55 - - - 6 362 6 394 6 404 6 391 6 350 60 - - - 7 094 7 101 7 086 7 050 65 - - - - 7 077 7 859 7 819 2urent consumption in A - - - 7 717 7 859 7 819 40 6.62 7.01 7.07 7.13 7.19 7.22 7.31 7.39 50 - 7.42 7.52 7.59 7.66 7.72 7.78 8.44 55 - - - 8.11 8.20 8.27 8.34 8.40 55 - - - 8.11 8.20 8.27 8.24 8.91	30	3 728	3 779	3 810	3 819	3 801	3 753	3 671	3 550	-	
45 . 5 076 5 136 5 180 5 204 5 204 5 177 5 118 50 - - 5 692 5 739 5 775 5 776 5 775 5 775 5 775 5 776 5 775 5 776 <	35									-	
45 . 5 076 5 138 5 180 5 204 5 204 5 177 5 118 50 . . . 5 692 5 739 5 775 5 775 5 779 55 7 765 5 777 5 778 7 789 60 7 094 7 101 7 088 7 050 85 7 877 7 859 7 819 2urret consumption in A . <td>40</td> <td>4 518</td> <td></td> <td></td> <td></td> <td>4 695</td> <td></td> <td>4 642</td> <td>4 568</td> <td>-</td>	40	4 518				4 695		4 642	4 568	-	
60 . . 5 662 6 739 6 775 5 777 5 770 5 700 55 6 384 6 404 6 391 6 350 60 7 064 7 101 7 086 7 6050 65 7 064 7 101 7 086 7 6050 567 . <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>			1							-	
55 . . . 6 365 6 394 6 404 6 391 6 350 60 7 094 7 101 7 089 7 650 65 7 877 7 859 7 819 30 6.24 6.29 6.33 6.36 6.44 6.52 6.61 6.73 30 6.24 6.29 6.33 6.36 6.73 6.79 8.85 6.92 7.02 40 6.57 7.66 7.72 7.78 7.85 . 50 . . 8.01 8.11 8.20 8.27 8.34 8.40 55 9.52 9.64 9.73 9.82 60 . . . 9.52 9.64 9.73 9.82 65 9.52 9.64 9.73 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>										-	
60 . . . 7 094 7 101 7 088 7 050 65 7 877 7 859 7 819 urrent consumption in A 7 877 7 859 7 819 30 6.24 6.29 6.33 6.38 6.44 6.52 6.61 6.73 . 40 6.92 7.01 7.07 7.13 7.19 7.25 7.31 7.39 . 50 . . 8.01 8.11 8.20 8.27 8.34 8.40 55 9.62 . <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>		-								-	
66 7 877 7 869 7 819 Current consumption in A 30 6.24 6.29 6.33 6.38 6.44 6.52 6.61 6.73 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 - - 8.71 8.82 8.91 8.99 9.66 65 - - - - 10.48 10.69 10.69 66 - - - - 10.48 10.69 10.69 735 138 1377 216 263 315 375 445 529 40 122 168 213 261 313		-	-	-						-	
Surrent 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 - - - - 9.52 9.64 9.73 9.82 66 - - - - 10.46 10.59 10.69 Ass flow in kgh - - - - 10.46 10.59 10.69 30 146 181 220 265 318 381 456 547 35 138 177 218		-	-	-	-					-	
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 60 - - - 9.52 9.64 9.73 9.82 65 - - - - - 10.46 10.59 10.69 tass flow in kg/h - - - - - 10.46 10.59 10.69 45 - 151 203 255 309 368 455 510 50 - - 184 243 302 364 431<			<u> </u>		•	•					
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 - - - - 10.46 10.59 10.69 65 - - - - 10.46 10.59 10.69 1ass flow in kgh - - - 10.46 10.59 52 9.06 30 146 181 220 265 318 381 456 547 45 - 151 203 255 309 368 435 510	urrent consum	ption in A			-			r			
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 10.89 tass flow in kg/h - <th< td=""><td>30</td><td>6.24</td><td>6.29</td><td>6.33</td><td>6.38</td><td>6.44</td><td>6.52</td><td>6.61</td><td>6.73</td><td>-</td></th<>	30	6.24	6.29	6.33	6.38	6.44	6.52	6.61	6.73	-	
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 - - - - 9.52 9.64 9.73 9.82 65 - - - - - 10.46 10.59 10.69 Ass 146 181 220 265 318 381 456 547 40 122 168 213 261 313 371 439 517 45 - 151 203 265 309 368 435 510 50 - - - - 233 265 3.09 366 4426<	35	6.57	6.63	6.68	6.73	6.79	6.85	6.92	7.02	-	
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 10 10.46 181 220 265 318 381 456 547 30 146 181 220 265 318 381 456 547 40 122 168 213 261 313 371 439 517 45 - 151 203 255 309 364 435 510 50 - - 184 243 302 364 426 501 55 - - - - 304 484 446 446 446	40	6.92	7.01	7.07	7.13	7.19	7.25	7.31	7.39	-	
55 - - 8.71 8.82 8.91 8.99 9.06 60 - - - - 9.52 9.64 9.73 9.82 65 65 - - - - - 10.46 10.59 10.69 ass flow in kg/h - - - - - 10.46 10.59 10.69 ass flow 146 181 220 265 318 381 456 547 35 138 177 218 263 315 375 445 529 161 40 122 168 213 261 313 371 439 517 45 - 161 203 255 309 366 435 510 50 - - 184 243 302 364 431 506 51 - - - 268 341 416 <	45	-	7.42	7.52	7.59	7.66	7.72	7.78	7.85	-	
So John J	50	-	-	8.01	8.11	8.20	8.27	8.34	8.40	-	
65 - - - 10.46 10.59 10.69 tass 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 - - 223 289 356 426 501 60 - - 223 289 356 426 501 65 - - - 223 289 356 426 501 60 - - - 233 2.85 3.46 4.22 5.17 6.38 7.95 30 1.88 2.33 2.85 3.46 4.22 5.17 6.38 7.95	55	-	-	-	8.71	8.82	8.91	8.99	9.06	-	
Also 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 - - - 223 289 366 426 501 60 - - - 223 289 366 426 501 60 - - - - 268 341 416 494 65 - - - - 319 400 484 style style 517 6.38 7.95 35 1.53 1.97 2.43 2.96 3.58 4.33 5.28 <td>60</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>9.52</td> <td>9.64</td> <td>9.73</td> <td>9.82</td> <td>-</td>	60	-	-	-	-	9.52	9.64	9.73	9.82	-	
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 - 151 203 255 309 364 431 506 50 - - 184 243 302 364 431 506 55 - - - 223 289 366 426 501 60 - - - 223 289 366 426 501 60 - - - - 319 400 484 55 - - - - 319 400 484 56 - - - - 30 1.88 2.33 2.85 3.46 4.22 5.17	65	-	-	-	-	-	10.46	10.59	10.69	-	
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 - 151 203 255 309 364 431 506 50 - - 184 243 302 364 431 506 55 - - - 223 289 356 426 501 60 - - - 223 289 356 426 501 65 - - - - - 319 400 484 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 </td <td></td>											
36 138 177 218 263 315 375 445 529 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 - - - 223 289 356 426 501 60 - - - 223 289 356 426 501 60 - - - - 319 400 484 scotficient 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 <td< td=""><td></td><td></td><td>101</td><td>220</td><td>265</td><td>210</td><td>201</td><td>456</td><td>547</td><td>_</td></td<>			101	220	265	210	201	456	547	_	
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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 1.69 2.11 2.56 3.08 60 - - - 1.29 1.67 2.08 2.52 65 - - - - 1.26 1.62 2.01 Moninal performance at to = 5 °C, tc = 50 °C Cooling capacity 17 824 W W Power input 5 757 W Current consumption 8.34 A Aass flow 431 kg/h C.O.P. 3.10 Sound power data	40	1.16	1.60	2.04	2.51	3.03	3.66	4.41	5.34	-	
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 - - - - 1.29 1.67 2.08 2.52 65 - - - - 1.26 1.62 2.01 1.62 Mominal performance at to = 5 °C, tc = 50 °C Cooling capacity 17 824 W W W Maximum HP switch setting 45 Soure input 5 757 W W Maximum LP switch setting 1.5 LP pump down setting 1.5 LP pump down setting 1.5 LP pump down setting 2.3 3	45	-	1.22	1.65	2.09	2.55	3.08	3.70	4.45	-	
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 Sound power data		-	-	1.27	1.68	2.11	2.57	3.10	3.71	-	
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 Sound power data	55	-	-	-	1.29	1.69	2.11	2.56	3.08	-	
Aominal performance at to = 5 °C, tc = 50 °C Pressure switch settings 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 Sound power data	60	-	-		-	1.29	1.67			-	
Cooling capacity 17 824 W Maximum HP switch setting 45 Power input 5 757 W Minimum LP switch setting 1.5 Current consumption 8.34 A LP pump down setting 2.3 Mass flow 431 kg/h Sound power data	65	-	-	-	-	-	1.26	1.62	2.01	-	
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/lass flow 431 kg/h 2.O.P. 3.10 Sound power data	•	tion						-		bar(g)	
C.O.P. 3.10 Sound power data								uniy	2.3	bar(g)	
							Sound power dat	а			
Sound power level 74									74	dB(A)	

tc: Condensing temperature at dew point Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

Danfoss scroll compressor. HLH068T4

Danfoss

R410A

Performance data at 60 Hz, ARI rating conditions

Cond. temp. in	Evaporating temperature in °C (to)										
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15		
Cooling capacit	v 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	
COP	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 accoustic hood	69	dB(A)

Tolerance according EN12900

tc: Condensing temperature at dew point

to: Evaporating temperature at dew point

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



ENGINEERING TOMORROW

