

Datasheets

# Danfoss scroll compressors **H series**



[www.damoon-co.com](http://www.damoon-co.com)

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[www.danfoss.com/odsg](http://www.danfoss.com/odsg)

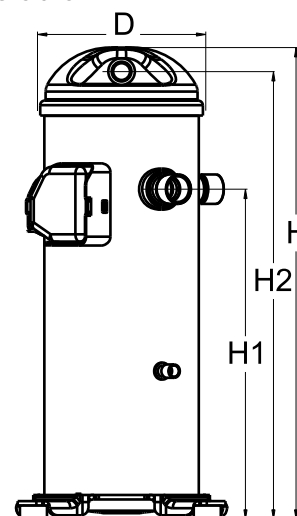
## Datasheet, technical data

## Danfoss scroll compressor, HLM072T4

### General Characteristics

Model number (on compressor nameplate)		<b>HLM072T4LC6</b>
Code number for Singlepack*		120U1751
Code number for Industrial pack**		120U1748
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		98,57 cm <sup>3</sup> /rev
Displacement @ Nominal speed		17.1 m <sup>3</sup> /h @ 2900 rpm - 20.7 m <sup>3</sup> /h @ 3500 rpm
Net weight		37,2 kg
Oil charge		1,57 litre, Alkylbenzene - -
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		R22

### Dimensions

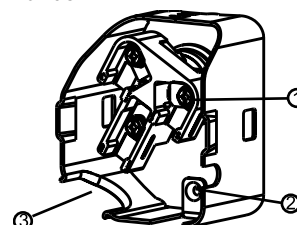


D=183,5 mm  
H=455 mm  
H1=280 mm  
H2=422 mm  
H3=- mm

### Electrical Characteristics

Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz
Voltage range	342-457 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	1.852 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.827 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.867 Ω
Rated Load Amps (RLA)	9.6 A
Maximum Continuous Current (MCC)	15 A
Locked Rotor Amps (LRA)	82 A
Motor protection	Internal overload protector

### Terminal box



IP22

- 1: Screw connectors 10-32 UNF x 9.5
- 2: Earth connection
- 3: Power cable passage

### Recommended Installation torques

Oil sight glass	52,5 Nm
Power connections / Earth connection	3 Nm / 2 Nm

### Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals :** CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box

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

**Rotolock accessories, suction side**

**Code no.**

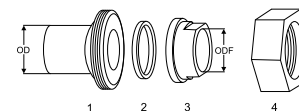
Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-1/4"	8156131

**Rotolock accessories, discharge side**

**Code no.**

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

**Solder sleeve adapter set**



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

**Rotolock accessories, sets**

**Code no.**

Solder sleeve adapter set (1-1/4" Rotolock, 7/8" ODF), (1" Rotolock, 1/2" ODF)	120Z0127
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**

**Code no.**

**Crankcase heaters**

**Code no.**

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

**Miscellaneous accessories**

**Code no.**

Acoustic hood	120Z5044
Discharge thermostat kit	7750009

**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. HLM072T4

### Performance data at 50 Hz, EN 12900 rating conditions

# R22

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

#### Cooling capacity in W

30	6 432	7 507	9 099	11 174	13 697	16 634	19 949	23 607	-
35	6 021	7 088	8 639	10 637	13 050	15 841	18 976	22 420	-
40	5 484	6 573	8 109	10 059	12 389	15 063	18 046	21 305	-
45	-	5 927	7 477	9 406	11 680	14 264	17 125	20 226	-
50	-	-	6 710	8 645	10 890	13 413	16 177	19 148	-
55	-	-	-	7 744	9 987	12 473	15 168	18 036	-
60	-	-	-	-	8 939	11 414	14 065	16 857	-
65	-	-	-	-	-	10 204	12 835	15 575	-

#### Power input in W

30	3 041	2 953	2 949	3 011	3 122	3 265	3 425	3 583	-
35	3 526	3 406	3 363	3 381	3 441	3 528	3 625	3 714	-
40	3 985	3 857	3 801	3 798	3 833	3 887	3 946	3 991	-
45	-	4 275	4 230	4 231	4 264	4 312	4 356	4 382	-
50	-	-	4 619	4 650	4 706	4 770	4 826	4 856	-
55	-	-	-	5 022	5 125	5 231	5 322	5 382	-
60	-	-	-	-	5 492	5 664	5 815	5 928	-
65	-	-	-	-	-	6 037	6 272	6 464	-

#### Current consumption in A

30	5.81	5.92	6.00	6.04	6.06	6.06	6.04	6.01	-
35	6.26	6.34	6.40	6.42	6.44	6.43	6.42	6.41	-
40	6.89	6.93	6.96	6.97	6.97	6.96	6.96	6.96	-
45	-	7.69	7.69	7.68	7.67	7.66	7.66	7.67	-
50	-	-	8.60	8.56	8.53	8.52	8.52	8.54	-
55	-	-	-	9.63	9.58	9.55	9.55	9.58	-
60	-	-	-	-	10.81	10.77	10.76	10.79	-
65	-	-	-	-	-	12.17	12.16	12.19	-

#### Mass flow in kg/h

30	141	162	193	234	284	340	404	473	-
35	137	159	191	232	281	337	399	465	-
40	130	154	187	228	277	333	394	460	-
45	-	145	180	223	273	329	390	455	-
50	-	-	169	214	266	323	385	450	-
55	-	-	-	203	256	315	378	444	-
60	-	-	-	-	243	304	369	437	-
65	-	-	-	-	-	290	357	427	-

#### Coefficient of performance (C.O.P.)

30	2.12	2.54	3.09	3.71	4.39	5.09	5.82	6.59	-
35	1.71	2.08	2.57	3.15	3.79	4.49	5.24	6.04	-
40	1.38	1.70	2.13	2.65	3.23	3.87	4.57	5.34	-
45	-	1.39	1.77	2.22	2.74	3.31	3.93	4.62	-
50	-	-	1.45	1.86	2.31	2.81	3.35	3.94	-
55	-	-	-	1.54	1.95	2.38	2.85	3.35	-
60	-	-	-	-	1.63	2.02	2.42	2.84	-
65	-	-	-	-	-	1.69	2.05	2.41	-

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

Cooling capacity	16 177	W
Power input	4 826	W
Current consumption	8.52	A
Mass flow	385	kg/h
C.O.P.	3.35	

#### Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	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. HLM072T4

### Performance data at 50 Hz, ARI rating conditions

# R22

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

#### Cooling capacity in W

30	6 831	7 966	9 648	11 839	14 502	17 599	21 092	24 944	-
35	6 417	7 549	9 192	11 309	13 862	16 814	20 128	23 764	-
40	5 869	7 027	8 661	10 735	13 209	16 047	19 210	22 661	-
45	-	6 365	8 021	10 081	12 506	15 259	18 303	21 599	-
50	-	-	7 235	9 311	11 717	14 416	17 370	20 541	-
55	-	-	-	8 389	10 806	13 480	16 375	19 451	-
60	-	-	-	-	9 736	12 417	15 282	18 294	-
65	-	-	-	-	-	11 189	14 055	17 032	-

#### Power input in W

30	3 041	2 953	2 949	3 011	3 122	3 265	3 425	3 583	-
35	3 526	3 406	3 363	3 381	3 441	3 528	3 625	3 714	-
40	3 985	3 857	3 801	3 798	3 833	3 887	3 946	3 991	-
45	-	4 275	4 230	4 231	4 264	4 312	4 356	4 382	-
50	-	-	4 619	4 650	4 706	4 770	4 826	4 856	-
55	-	-	-	5 022	5 125	5 231	5 322	5 382	-
60	-	-	-	-	5 492	5 664	5 815	5 928	-
65	-	-	-	-	-	6 037	6 272	6 464	-

#### Current consumption in A

30	5.81	5.92	6.00	6.04	6.06	6.06	6.04	6.01	-
35	6.26	6.34	6.40	6.42	6.44	6.43	6.42	6.41	-
40	6.89	6.93	6.96	6.97	6.97	6.96	6.96	6.96	-
45	-	7.69	7.69	7.68	7.67	7.66	7.66	7.67	-
50	-	-	8.60	8.56	8.53	8.52	8.52	8.54	-
55	-	-	-	9.63	9.58	9.55	9.55	9.58	-
60	-	-	-	-	10.81	10.77	10.76	10.79	-
65	-	-	-	-	-	12.17	12.16	12.19	-

#### Mass flow in kg/h

30	140	161	192	233	282	339	402	470	-
35	136	158	190	231	279	335	396	463	-
40	129	153	186	227	276	331	392	457	-
45	-	144	179	222	271	327	388	452	-
50	-	-	169	213	265	321	383	447	-
55	-	-	-	202	255	313	376	442	-
60	-	-	-	-	242	303	367	434	-
65	-	-	-	-	-	288	355	424	-

#### Coefficient of performance (C.O.P.)

30	2.25	2.70	3.27	3.93	4.65	5.39	6.16	6.96	-
35	1.82	2.22	2.73	3.35	4.03	4.77	5.55	6.40	-
40	1.47	1.82	2.28	2.83	3.45	4.13	4.87	5.68	-
45	-	1.49	1.90	2.38	2.93	3.54	4.20	4.93	-
50	-	-	1.57	2.00	2.49	3.02	3.60	4.23	-
55	-	-	-	1.67	2.11	2.58	3.08	3.61	-
60	-	-	-	-	1.77	2.19	2.63	3.09	-
65	-	-	-	-	-	1.85	2.24	2.63	-

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

Cooling capacity	17 836	W
Power input	5 291	W
Current consumption	9.43	A
Mass flow	405	kg/h
C.O.P.	3.37	

#### Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	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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## Datasheet, performance data

## Danfoss scroll compressor. HLM072T4

### Performance data at 60 Hz, EN 12900 rating conditions

# R22

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

#### Cooling capacity in W

30	7 688	8 972	10 875	13 355	16 371	19 881	23 844	28 216	-
35	7 196	8 472	10 325	12 714	15 598	18 934	22 682	26 798	-
40	6 555	7 856	9 693	12 024	14 808	18 005	21 571	25 466	-
45	-	7 085	8 937	11 243	13 962	17 051	20 470	24 177	-
50	-	-	8 021	10 333	13 018	16 033	19 337	22 889	-
55	-	-	-	9 256	11 938	14 911	18 132	21 561	-
60	-	-	-	-	10 685	13 645	16 814	20 151	-
65	-	-	-	-	-	12 198	15 344	18 619	-

#### Power input in W

30	3 593	3 488	3 483	3 557	3 690	3 861	4 049	4 235	-
35	4 168	4 025	3 975	3 997	4 070	4 173	4 287	4 391	-
40	4 710	4 560	4 494	4 493	4 535	4 601	4 669	4 720	-
45	-	5 055	5 003	5 008	5 049	5 105	5 158	5 185	-
50	-	-	5 465	5 505	5 574	5 651	5 716	5 749	-
55	-	-	-	5 947	6 073	6 201	6 308	6 376	-
60	-	-	-	-	6 511	6 717	6 897	7 028	-
65	-	-	-	-	-	7 164	7 444	7 670	-

#### Current consumption in A

30	5.85	5.96	6.04	6.09	6.11	6.10	6.09	6.06	-
35	6.31	6.39	6.44	6.47	6.48	6.48	6.47	6.46	-
40	6.94	6.98	7.01	7.02	7.02	7.02	7.01	7.01	-
45	-	7.75	7.75	7.74	7.72	7.71	7.71	7.73	-
50	-	-	8.66	8.63	8.60	8.58	8.58	8.60	-
55	-	-	-	9.70	9.65	9.62	9.62	9.65	-
60	-	-	-	-	10.89	10.85	10.84	10.87	-
65	-	-	-	-	-	12.26	12.25	12.28	-

#### Mass flow in kg/h

30	168	193	231	280	339	407	483	565	-
35	164	190	228	277	336	402	476	556	-
40	155	184	223	273	332	398	471	550	-
45	-	173	215	266	326	393	466	544	-
50	-	-	203	256	318	386	460	538	-
55	-	-	-	242	306	377	452	531	-
60	-	-	-	-	291	364	441	522	-
65	-	-	-	-	-	346	427	510	-

#### Coefficient of performance (C.O.P.)

30	2.14	2.57	3.12	3.75	4.44	5.15	5.89	6.66	-
35	1.73	2.10	2.60	3.18	3.83	4.54	5.29	6.10	-
40	1.39	1.72	2.16	2.68	3.27	3.91	4.62	5.40	-
45	-	1.40	1.79	2.25	2.77	3.34	3.97	4.66	-
50	-	-	1.47	1.88	2.34	2.84	3.38	3.98	-
55	-	-	-	1.56	1.97	2.40	2.87	3.38	-
60	-	-	-	-	1.64	2.03	2.44	2.87	-
65	-	-	-	-	-	1.70	2.06	2.43	-

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

Cooling capacity	19 337	W
Power input	5 716	W
Current consumption	8.58	A
Mass flow	460	kg/h
C.O.P.	3.38	

#### Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

#### Sound power data

Sound power level	74	dB(A)
With acoustic hood	69	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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## Datasheet, performance data

## Danfoss scroll compressor. HLM072T4

### Performance data at 60 Hz, ARI rating conditions

# R22

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

#### Cooling capacity in W

30	8 165	9 521	11 532	14 151	17 334	21 035	25 211	29 814	-
35	7 670	9 022	10 986	13 517	16 569	20 098	24 058	28 404	-
40	7 015	8 399	10 353	12 831	15 789	19 181	22 962	27 087	-
45	-	7 608	9 588	12 050	14 949	18 240	21 878	25 818	-
50	-	-	8 648	11 130	14 006	17 232	20 763	24 554	-
55	-	-	-	10 027	12 917	16 115	19 575	23 252	-
60	-	-	-	-	11 639	14 844	18 269	21 869	-
65	-	-	-	-	-	13 376	16 803	20 362	-

#### Power input in W

30	3 593	3 488	3 483	3 557	3 690	3 861	4 049	4 235	-
35	4 168	4 025	3 975	3 997	4 070	4 173	4 287	4 391	-
40	4 710	4 560	4 494	4 493	4 535	4 601	4 669	4 720	-
45	-	5 055	5 003	5 008	5 049	5 105	5 158	5 185	-
50	-	-	5 465	5 505	5 574	5 651	5 716	5 749	-
55	-	-	-	5 947	6 073	6 201	6 308	6 376	-
60	-	-	-	-	6 511	6 717	6 897	7 028	-
65	-	-	-	-	-	7 164	7 444	7 670	-

#### Current consumption in A

30	5.85	5.96	6.04	6.09	6.11	6.10	6.09	6.06	-
35	6.31	6.39	6.44	6.47	6.48	6.48	6.47	6.46	-
40	6.94	6.98	7.01	7.02	7.02	7.02	7.01	7.01	-
45	-	7.75	7.75	7.74	7.72	7.71	7.71	7.73	-
50	-	-	8.66	8.63	8.60	8.58	8.58	8.60	-
55	-	-	-	9.70	9.65	9.62	9.62	9.65	-
60	-	-	-	-	10.89	10.85	10.84	10.87	-
65	-	-	-	-	-	12.26	12.25	12.28	-

#### Mass flow in kg/h

30	167	192	230	278	337	405	480	562	-
35	163	189	227	276	334	400	474	553	-
40	154	183	222	271	330	396	469	547	-
45	-	172	214	265	324	391	463	541	-
50	-	-	202	255	316	384	457	535	-
55	-	-	-	241	305	375	450	528	-
60	-	-	-	-	289	362	439	519	-
65	-	-	-	-	-	344	425	507	-

#### Coefficient of performance (C.O.P.)

30	2.27	2.73	3.31	3.98	4.70	5.45	6.23	7.04	-
35	1.84	2.24	2.76	3.38	4.07	4.82	5.61	6.47	-
40	1.49	1.84	2.30	2.86	3.48	4.17	4.92	5.74	-
45	-	1.51	1.92	2.41	2.96	3.57	4.24	4.98	-
50	-	-	1.58	2.02	2.51	3.05	3.63	4.27	-
55	-	-	-	1.69	2.13	2.60	3.10	3.65	-
60	-	-	-	-	1.79	2.21	2.65	3.11	-
65	-	-	-	-	-	1.87	2.26	2.65	-

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

Cooling capacity	21 321	W
Power input	6 270	W
Current consumption	9.50	A
Mass flow	485	kg/h
C.O.P.	3.40	

#### Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

#### Sound power data

Sound power level	74	dB(A)
With acoustic hood	69	dB(A)

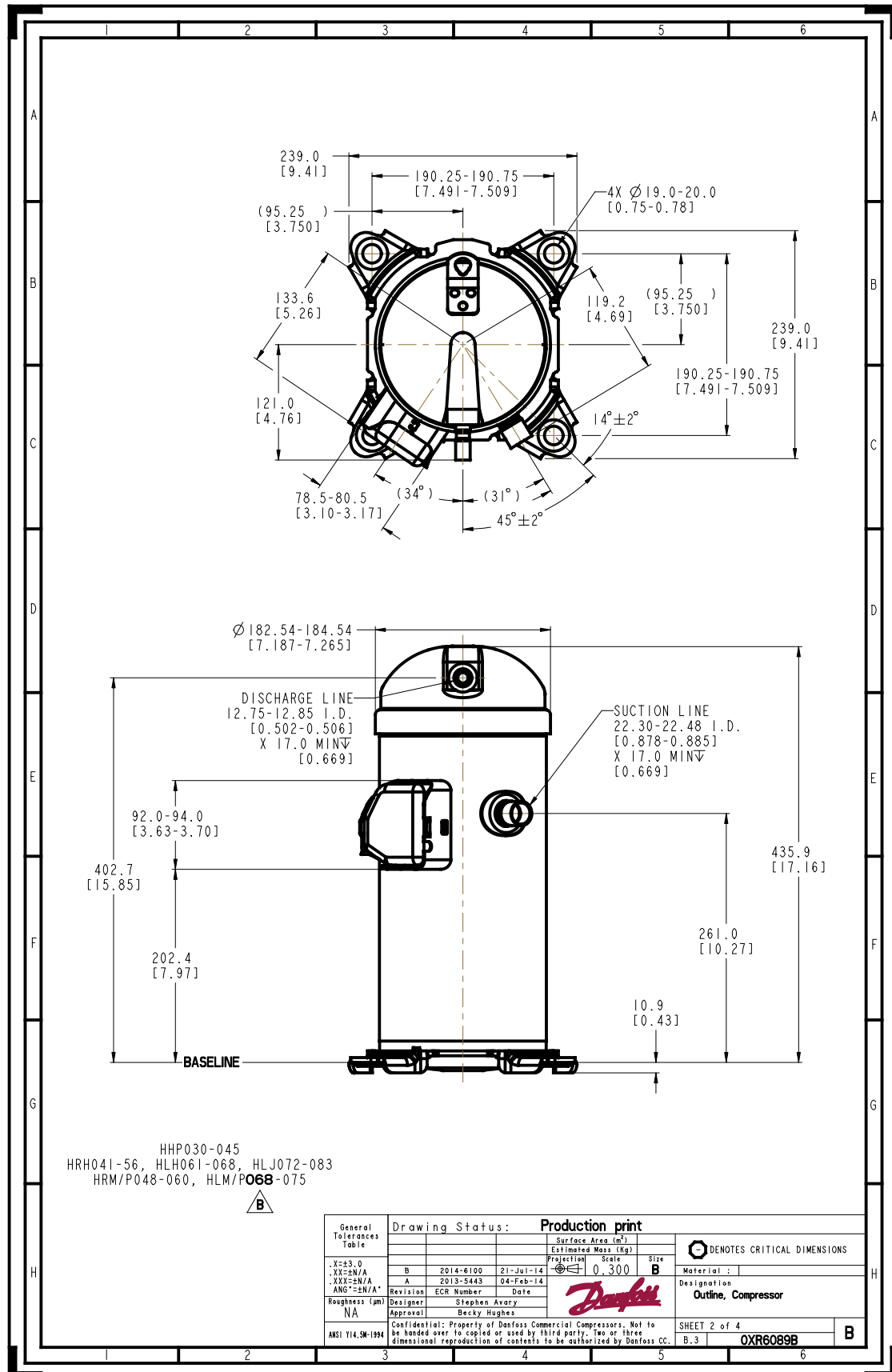
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

All performance data +/- 5%

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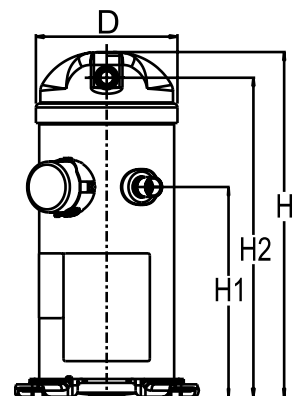
## Datasheet, technical data

## Danfoss scroll compressor, HLM072T4

### General Characteristics

Model number (on compressor nameplate)		<b>HLM072T4LC8</b>
Code number for Singlepack*		120U2067
Code number for Industrial pack**		120U2064
Drawing number		0XR6049B-2
Suction and discharge connections		Brazed
Suction connection		7/8" ODF
Discharge connection		1/2" ODF
Oil sight glass		None
Oil equalisation connection		1/2"
Oil drain connection		None
LP gauge port		None
IPR valve		Yes
Swept volume		98,57 cm <sup>3</sup> /rev
Displacement @ Nominal speed		17.1 m <sup>3</sup> /h @ 2900 rpm - 20.7 m <sup>3</sup> /h @ 3500 rpm
Net weight		37,2 kg
Oil charge		1,57 litre, Alkylbenzene - -
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		R22

### Dimensions



D=183,5 mm

H=455 mm

H1=280 mm

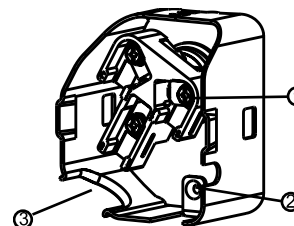
H2=422 mm

H3=- mm

### Electrical Characteristics

Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz
Voltage range	342-457 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	1.852 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.827 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.867 Ω
Rated Load Amps (RLA)	9.6 A
Maximum Continuous Current (MCC)	15 A
Locked Rotor Amps (LRA)	82 A
Motor protection	Internal overload protector

### Terminal box



IP22

1: Screw connectors 10-32 UNF x 9.5

2: Earth connection

3: Power cable passage

### Recommended Installation torques

Oil sight glass	52,5 Nm
Power connections / Earth connection	3 Nm / 2 Nm

### Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box

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

**Rotolock accessories, suction side**

**Code no.**

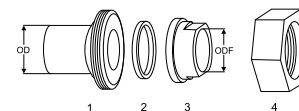
Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-1/4"	8156131

**Rotolock accessories, discharge side**

**Code no.**

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

**Solder sleeve adapter set**



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

**Rotolock accessories, sets**

**Code no.**

Solder sleeve adapter set (1-1/4" Rotolock, 7/8" ODF), (1" Rotolock, 1/2" ODF)	120Z0127
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**

**Code no.**

**Crankcase heaters**

**Code no.**

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

**Miscellaneous accessories**

**Code no.**

Acoustic hood	120Z5044
Discharge thermostat kit	7750009

**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

## Performer scroll compressor. HLM072T4

### Performance data at 50 Hz, EN 12900 rating conditions

# R22

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

#### Cooling capacity in W

30	6 435	7 510	9 102	11 178	13 702	16 640	19 956	23 616	-
35	6 023	7 091	8 641	10 640	13 053	15 845	18 981	22 426	-
40	5 487	6 576	8 113	10 064	12 395	15 070	18 055	21 316	-
45	-	5 929	7 479	9 408	11 683	14 268	17 129	20 230	-
50	-	-	6 713	8 649	10 896	13 419	16 184	19 157	-
55	-	-	-	7 748	9 993	12 481	15 177	18 047	-
60	-	-	-	-	8 941	11 417	14 068	16 861	-
65	-	-	-	-	-	10 210	12 843	15 583	-

#### Power input in W

30	3 041	2 953	2 949	3 011	3 122	3 265	3 425	3 583	-
35	3 526	3 406	3 363	3 381	3 441	3 528	3 625	3 714	-
40	3 985	3 857	3 801	3 798	3 833	3 887	3 946	3 991	-
45	-	4 275	4 230	4 231	4 264	4 312	4 356	4 382	-
50	-	-	4 619	4 650	4 706	4 770	4 826	4 856	-
55	-	-	-	5 022	5 125	5 231	5 322	5 382	-
60	-	-	-	-	5 492	5 664	5 815	5 928	-
65	-	-	-	-	-	6 037	6 272	6 464	-

#### Current consumption in A

30	5.81	5.92	6.00	6.04	6.06	6.06	6.04	6.01	-
35	6.26	6.34	6.40	6.42	6.44	6.43	6.42	6.41	-
40	6.89	6.93	6.96	6.97	6.97	6.96	6.96	6.96	-
45	-	7.69	7.69	7.68	7.67	7.66	7.66	7.67	-
50	-	-	8.60	8.56	8.53	8.52	8.52	8.54	-
55	-	-	-	9.63	9.58	9.55	9.55	9.58	-
60	-	-	-	-	10.81	10.77	10.76	10.79	-
65	-	-	-	-	-	12.17	12.16	12.19	-

#### Mass flow in kg/h

30	141	162	193	234	284	340	404	473	-
35	137	159	191	232	281	337	399	465	-
40	130	154	187	228	277	333	394	460	-
45	-	145	180	223	273	329	390	455	-
50	-	-	169	214	266	323	385	450	-
55	-	-	-	203	256	315	378	444	-
60	-	-	-	-	243	304	369	437	-
65	-	-	-	-	-	290	357	427	-

#### Coefficient of performance (C.O.P.)

30	2.12	2.54	3.09	3.71	4.39	5.10	5.83	6.59	-
35	1.71	2.08	2.57	3.15	3.79	4.49	5.24	6.04	-
40	1.38	1.70	2.13	2.65	3.23	3.88	4.58	5.34	-
45	-	1.39	1.77	2.22	2.74	3.31	3.93	4.62	-
50	-	-	1.45	1.86	2.32	2.81	3.35	3.95	-
55	-	-	-	1.54	1.95	2.39	2.85	3.35	-
60	-	-	-	-	1.63	2.02	2.42	2.84	-
65	-	-	-	-	-	1.69	2.05	2.41	-

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

Cooling capacity	16 184	W
Power input	4 826	W
Current consumption	8.52	A
Mass flow	385	kg/h
C.O.P.	3.35	

#### Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

#### Sound power data

Sound power level	70	dB(A)
With acoustic hood	65	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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 ..ED.HLM072T4.A4.02 / page performance R22 50 Hz

## Datasheet, performance data

## Performer scroll compressor. HLM072T4

### Performance data at 50 Hz, ARI rating conditions

# R22

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

#### Cooling capacity in W

30	6 833	7 968	9 650	11 842	14 505	17 603	21 096	24 949	-
35	6 419	7 550	9 194	11 311	13 865	16 818	20 132	23 769	-
40	5 871	7 029	8 664	10 737	13 212	16 050	19 214	22 666	-
45	-	6 367	8 023	10 083	12 509	15 263	18 307	21 604	-
50	-	-	7 237	9 313	11 720	14 420	17 374	20 546	-
55	-	-	-	8 391	10 809	13 484	16 380	19 457	-
60	-	-	-	-	9 739	12 421	15 287	18 299	-
65	-	-	-	-	-	11 193	14 060	17 038	-

#### Power input in W

30	3 041	2 953	2 949	3 011	3 122	3 265	3 425	3 583	-
35	3 526	3 406	3 363	3 381	3 441	3 528	3 625	3 714	-
40	3 985	3 857	3 801	3 798	3 833	3 887	3 946	3 991	-
45	-	4 275	4 230	4 231	4 264	4 312	4 356	4 382	-
50	-	-	4 619	4 650	4 706	4 770	4 826	4 856	-
55	-	-	-	5 022	5 125	5 231	5 322	5 382	-
60	-	-	-	-	5 492	5 664	5 815	5 928	-
65	-	-	-	-	-	6 037	6 272	6 464	-

#### Current consumption in A

30	5.81	5.92	6.00	6.04	6.06	6.06	6.04	6.01	-
35	6.26	6.34	6.40	6.42	6.44	6.43	6.42	6.41	-
40	6.89	6.93	6.96	6.97	6.97	6.96	6.96	6.96	-
45	-	7.69	7.69	7.68	7.67	7.66	7.66	7.67	-
50	-	-	8.60	8.56	8.53	8.52	8.52	8.54	-
55	-	-	-	9.63	9.58	9.55	9.55	9.58	-
60	-	-	-	-	10.81	10.77	10.76	10.79	-
65	-	-	-	-	-	12.17	12.16	12.19	-

#### Mass flow in kg/h

30	140	161	192	233	282	339	402	470	-
35	136	158	190	231	279	335	396	463	-
40	129	153	186	227	276	331	392	457	-
45	-	144	179	222	271	327	388	452	-
50	-	-	169	213	265	321	383	447	-
55	-	-	-	202	255	313	376	442	-
60	-	-	-	-	242	303	367	434	-
65	-	-	-	-	-	288	355	424	-

#### Coefficient of performance (C.O.P.)

30	2.25	2.70	3.27	3.93	4.65	5.39	6.16	6.96	-
35	1.82	2.22	2.73	3.35	4.03	4.77	5.55	6.40	-
40	1.47	1.82	2.28	2.83	3.45	4.13	4.87	5.68	-
45	-	1.49	1.90	2.38	2.93	3.54	4.20	4.93	-
50	-	-	1.57	2.00	2.49	3.02	3.60	4.23	-
55	-	-	-	1.67	2.11	2.58	3.08	3.62	-
60	-	-	-	-	1.77	2.19	2.63	3.09	-
65	-	-	-	-	-	1.85	2.24	2.64	-

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

Cooling capacity	17 841	W
Power input	5 291	W
Current consumption	9.43	A
Mass flow	405	kg/h
C.O.P.	3.37	

#### Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

#### Sound power data

Sound power level	70	dB(A)
With acoustic hood	65	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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..ED.HLM072T4.A4.02 / page performance R22 50 Hz

## Datasheet, performance data

## Performer scroll compressor. HLM072T4

### Performance data at 60 Hz, EN 12900 rating conditions

**R22**

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

#### Cooling capacity in W

30	7 691	8 976	10 880	13 361	16 378	19 889	23 853	28 227	-
35	7 198	8 475	10 329	12 718	15 602	18 940	22 688	26 806	-
40	6 559	7 860	9 698	12 030	14 816	18 014	21 582	25 478	-
45	-	7 086	8 939	11 246	13 965	17 055	20 474	24 182	-
50	-	-	8 025	10 339	13 024	16 041	19 346	22 899	-
55	-	-	-	9 262	11 946	14 920	18 143	21 573	-
60	-	-	-	-	10 688	13 648	16 818	20 156	-
65	-	-	-	-	-	12 206	15 353	18 630	-

#### Power input in W

30	3 593	3 488	3 483	3 557	3 690	3 861	4 049	4 235	-
35	4 168	4 025	3 975	3 997	4 070	4 173	4 287	4 391	-
40	4 710	4 560	4 494	4 493	4 535	4 601	4 669	4 720	-
45	-	5 055	5 003	5 008	5 049	5 105	5 158	5 185	-
50	-	-	5 465	5 505	5 574	5 651	5 716	5 749	-
55	-	-	-	5 947	6 073	6 201	6 308	6 376	-
60	-	-	-	-	6 511	6 717	6 896	7 028	-
65	-	-	-	-	-	7 164	7 444	7 670	-

#### Current consumption in A

30	5.85	5.96	6.04	6.09	6.11	6.10	6.09	6.06	-
35	6.31	6.39	6.44	6.47	6.48	6.48	6.47	6.46	-
40	6.94	6.98	7.01	7.02	7.02	7.02	7.01	7.01	-
45	-	7.75	7.75	7.74	7.72	7.71	7.71	7.73	-
50	-	-	8.66	8.63	8.60	8.58	8.58	8.60	-
55	-	-	-	9.70	9.65	9.62	9.62	9.65	-
60	-	-	-	-	10.89	10.85	10.84	10.87	-
65	-	-	-	-	-	12.26	12.25	12.28	-

#### Mass flow in kg/h

30	168	193	231	280	339	407	483	565	-
35	164	190	228	277	336	402	476	556	-
40	155	184	223	273	332	398	471	550	-
45	-	173	215	266	326	393	466	544	-
50	-	-	203	256	318	386	460	538	-
55	-	-	-	242	306	377	452	531	-
60	-	-	-	-	291	364	441	522	-
65	-	-	-	-	-	346	427	510	-

#### Coefficient of performance (C.O.P.)

30	2.14	2.57	3.12	3.76	4.44	5.15	5.89	6.66	-
35	1.73	2.11	2.60	3.18	3.83	4.54	5.29	6.10	-
40	1.39	1.72	2.16	2.68	3.27	3.92	4.62	5.40	-
45	-	1.40	1.79	2.25	2.77	3.34	3.97	4.66	-
50	-	-	1.47	1.88	2.34	2.84	3.38	3.98	-
55	-	-	-	1.56	1.97	2.41	2.88	3.38	-
60	-	-	-	-	1.64	2.03	2.44	2.87	-
65	-	-	-	-	-	1.70	2.06	2.43	-

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

Cooling capacity	19 346	W
Power input	5 716	W
Current consumption	8.58	A
Mass flow	460	kg/h
C.O.P.	3.38	

#### Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

#### Sound power data

Sound power level	73	dB(A)
With acoustic hood	68	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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..ED.HLM072T4.A4.02 / page performance R22 60 Hz

## Datasheet, performance data

## Performer scroll compressor. HLM072T4

### Performance data at 60 Hz, ARI rating conditions

# R22

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

#### Cooling capacity in W

30	8 167	9 524	11 534	14 154	17 338	21 040	25 216	29 820	-
35	7 672	9 025	10 989	13 520	16 573	20 103	24 063	28 411	-
40	7 017	8 401	10 355	12 834	15 793	19 185	22 967	27 093	-
45	-	7 610	9 590	12 053	14 953	18 244	21 883	25 824	-
50	-	-	8 651	11 133	14 010	17 237	20 769	24 560	-
55	-	-	-	10 030	12 921	16 119	19 580	23 259	-
60	-	-	-	-	11 643	14 848	18 275	21 876	-
65	-	-	-	-	-	13 381	16 808	20 368	-

#### Power input in W

30	3 593	3 488	3 483	3 557	3 690	3 861	4 049	4 235	-
35	4 168	4 025	3 975	3 997	4 070	4 173	4 287	4 391	-
40	4 710	4 560	4 494	4 493	4 535	4 601	4 669	4 720	-
45	-	5 055	5 003	5 008	5 049	5 105	5 158	5 185	-
50	-	-	5 465	5 505	5 574	5 651	5 716	5 749	-
55	-	-	-	5 947	6 073	6 201	6 308	6 376	-
60	-	-	-	-	6 511	6 717	6 896	7 028	-
65	-	-	-	-	-	7 164	7 444	7 670	-

#### Current consumption in A

30	5.85	5.96	6.04	6.09	6.11	6.10	6.09	6.06	-
35	6.31	6.39	6.44	6.47	6.48	6.48	6.47	6.46	-
40	6.94	6.98	7.01	7.02	7.02	7.02	7.01	7.01	-
45	-	7.75	7.75	7.74	7.72	7.71	7.71	7.73	-
50	-	-	8.66	8.63	8.60	8.58	8.58	8.60	-
55	-	-	-	9.70	9.65	9.62	9.62	9.65	-
60	-	-	-	-	10.89	10.85	10.84	10.87	-
65	-	-	-	-	-	12.26	12.25	12.28	-

#### Mass flow in kg/h

30	167	192	230	278	337	405	480	562	-
35	163	189	227	276	334	400	474	553	-
40	154	183	222	271	330	396	469	547	-
45	-	172	214	265	324	391	463	541	-
50	-	-	202	255	316	384	457	535	-
55	-	-	-	241	305	375	449	528	-
60	-	-	-	-	289	362	439	519	-
65	-	-	-	-	-	344	425	507	-

#### Coefficient of performance (C.O.P.)

30	2.27	2.73	3.31	3.98	4.70	5.45	6.23	7.04	-
35	1.84	2.24	2.76	3.38	4.07	4.82	5.61	6.47	-
40	1.49	1.84	2.30	2.86	3.48	4.17	4.92	5.74	-
45	-	1.51	1.92	2.41	2.96	3.57	4.24	4.98	-
50	-	-	1.58	2.02	2.51	3.05	3.63	4.27	-
55	-	-	-	1.69	2.13	2.60	3.10	3.65	-
60	-	-	-	-	1.79	2.21	2.65	3.11	-
65	-	-	-	-	-	1.87	2.26	2.66	-

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

Cooling capacity	21 327	W
Power input	6 270	W
Current consumption	9.50	A
Mass flow	485	kg/h
C.O.P.	3.40	

#### Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

#### Sound power data

Sound power level	73	dB(A)
With acoustic hood	68	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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