ENGINEERING



Datasheets

Danfoss scroll compressors **H series**





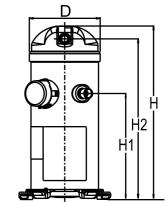
Datasheet, technical data

Danfoss scroll compressor, HRP054T5

General Characteristics

Model number (on compressor nameplate)		HRP054T5LP6
Code number for Singlepack*		120U2197
Code number for Industrial pack**		120U2194
Drawing number		0XR6002B-2
Suction and discharge connections		Brazed
Suction connection		7/8 " ODF
Discharge connection		1/2 " ODF
Oil sight glass		None
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		Yes
Swept volume	72.76 c	m3/rev
Displacement @ Nominal speed	12.7 m3/h (@ 2900 rpm
Net weight	37.1	9 kg
Oil charge	1.57 litre	e, PVE
Maximum system test pressure Low Side / High side	- bar(g)	/ - bar(g)
Maximum differential test pressure	- b	oar
Maximum number of starts per hour		•
Refrigerant charge limit	5.44	1 kg
Approved refrigerants	R40)7C

Dimensions

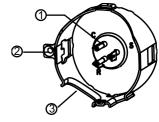


D=183.5 mm H=455 mm H1=280 mm H2=422 mm H3=- mm

Electrical Characteristics

Electrical characteristics	
Nominal voltage	230V/1/50Hz
Voltage range	207-253 V
Winding resistance (main / start) at 25°C	0.42 Ω / 1.309 Ω
Run capacitors A + C	55 μF + - μF
Start capacitor B	161-193 μF
Start relay	3ARR3*24AP*
Rated Load Amps (RLA)	25.6 A
Maximum Continuous Current (MCC)	40 A
Locked Rotor Amps (LRA)	130 A
Motor protection	Internal overload protector

Terminal box



IP22 1:

2:

3:

Spade connectors 1/4" Earth connection Power cable passage

Recommended Installation torques

Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

 $\textbf{Approvals:} \ \mathsf{CE} \ \mathsf{certified}, \ \mathsf{UL} \ \mathsf{certified} \ (\mathsf{file} \ \mathsf{SA11565}), \text{-}$

 $\hbox{*Singlepack: Compressor in cardboard box}\\$

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

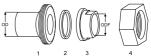


Datasheet, accessories and spare parts

Danfoss scroll compressor, HRP054T5

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	
Rotolock accessories, sets	Code no.	
Solder sleeve adapter set (1-1/4" Rotolock, 7/8" ODF), (1" Rotolock, 1/2" ODF)	120Z0127	
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009	
Oil / lubricants	Code no.	
PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034	
Crankcase heaters	Code no.	
Belt type crankcase heater, 50 W, 230 V, CE mark, UL	120Z0057	
Miscellaneous accessories	Code no.	
Acoustic hood	120Z5044	
Discharge thermostat kit	7750009	
IP54 upgrade kit	118U0056	
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	
No translation for 120Z5015	120Z5015	

Solder sleeve adapter set



1: Rotolock adapter (Suc & Dis)

2: Gasket (Suc & Dis)

3: Solder sleeve (Suc & Dis)

4: Rotolock nut (Suc & Dis)



Danfoss scroll compressor. HRP054T5

Performance data at 50 Hz, EN 12900 rating conditions

R407C

Cond. temp. in	in Evaporating temperature in °C (to)								
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity	ı in W								
30	-	3 933	5 007	6 324	7 909	9 788	11 985	14 527	17 438
35		3 661	4 689	5 947	7 460	9 252	11 350	13 778	16 561
40		3 395	4 375	5 572	7 010		10 708	13 020	15 673
	-		4 056	5 189	6 549	8 713 8 162	10 708	12 244	
45		-		+		1			14 764
50	-	-	-	4 790	6 070	7 588	9 371	11 441	13 825
55	-	-	-	-	5 562	6 985	8 656	10 602	12 847
60	-	-	-	-	-	6 341	7 899	9 717	11 819
65	-	-	-	-	-	-	7 089	8 775	10 730
Power input in V	v								
30	-	1 891	1 946	2 009	2 078	2 150	2 225	2 300	2 374
35	-	2 333	2 354	2 384	2 420	2 461	2 505	2 549	2 593
40	-	2 786	2 780	2 783	2 793	2 808	2 827	2 847	2 866
45	-	-	3 231	3 213	3 203	3 199	3 198	3 200	3 201
50	-	-	-	3 682	3 658	3 641	3 627	3 616	3 606
55	-	-	-	_	4 166	4 141	4 121	4 104	4 088
60	-	-	-	-	-	4 709	4 688	4 671	4 655
65	-	-	-	_	-	-	5 335	5 324	5 315
		· I	-II	I		I			
Current consum	ption in A	11.71	11.53	11.76	10.00	12.90	12.21	12.61	12.55
30			1	11.76	12.23	12.80	13.31	13.61	13.55
35	-	14.77	14.29	14.24	14.47	14.82	15.15	15.30	15.11
40	-	16.90	16.17	15.90	15.94	16.14	16.34	16.39	16.14
45	-	-	17.56	17.12	17.03	17.13	17.26	17.27	17.02
50	-	-	-	18.29	18.13	18.18	18.30	18.33	18.12
55	-	-	-	-	19.60	19.67	19.83	19.93	19.82
60	-	-	-	-	-	21.97	22.23	22.46	22.52
65	-	-	-	-	-	-	25.89	26.31	26.58
Mass flow in kg/	h				•				•
30	-	89	112	138	169	205	247	294	349
35	-	88	110	136	167	203	244	292	347
40	-	86	108	134	165	200	242	290	344
45	-	-	105	131	161	197	239	287	342
50	-	-	-	126	157	193	235	283	338
55	-	-	-	-	151	187	230	278	334
60	-	-	-	-	-	180	223	272	328
65	-	-	-	-	-	-	214	264	321
Coefficient of pe	erformance (C.	O.P.)							
30	-	2.08	2.57	3.15	3.81	4.55	5.39	6.31	7.35
35	-	1.57	1.99	2.49	3.08	3.76	4.53	5.40	6.39
40	-	1.22	1.57	2.00	2.51	3.10	3.79	4.57	5.47
45	-	-	1.26	1.62	2.04	2.55	3.14	3.83	4.61
50	-	-	-	1.30	1.66	2.08	2.58	3.16	3.83
55	-	-	-	-	1.34	1.69	2.10	2.58	3.14
60	-	-	-	-	-	1.35	1.68	2.08	2.54
65	-	_	_	_	-	-	1.33	1.65	2.02

Cooling capacity	11 441	W	Ī
Power input	3 616	W	
Current consumption	18.33	Α	
Mass flow	283	kg/h	
C.O.P.	3.16		

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Pressure switch settings

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

Sound power data

Sound power level	69	dB(A)
With accoustic hood	64	dB(A)

All performance data +/- 5%



Danfoss scroll compressor. HRP054T5

Performance data at 50 Hz, ARI rating conditions

R407C

35	12 798 15 497 18 58 12 173 14 761 17 72 11 543 14 018 16 85 10 899 13 258 15 96 10 231 12 473 15 05 9 530 11 652 14 09 8 786 10 785 13 09 7 989 9 864 12 03 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 086 4 688 4 671 4 656	0	5						Cond. temp. in Evaporating temperature in °C (to)							
30	12 173 14 761 17 72 11 543 14 018 16 85 10 899 13 258 15 96 10 231 12 473 15 05 9 530 11 652 14 09 8 786 10 785 13 09 7 989 9 864 12 03 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655		٦	-10	-15	-20	-25	-30	°C (tc)							
30	12 173 14 761 17 72 11 543 14 018 16 85 10 899 13 258 15 96 10 231 12 473 15 05 9 530 11 652 14 09 8 786 10 785 13 09 7 989 9 864 12 03 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655							in 14/	'aaling aanaaitu							
35	12 173 14 761 17 72 11 543 14 018 16 85 10 899 13 258 15 96 10 231 12 473 15 05 9 530 11 652 14 09 8 786 10 785 13 09 7 989 9 864 12 03 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655	12 709	10.463	9.464	6 775	5 270	4 224									
40	11 543 14 018 16 85 10 899 13 258 15 96 10 231 12 473 15 05 9 530 11 652 14 09 8 786 10 785 13 09 7 989 9 864 12 03 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655															
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45	3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 658	2 505	2 461	2 420	2 384	2 354	2 333	-	35							
50 - - - 3 682 3 658 3 641 3 627 55 - - - - 4 166 4 141 4 121 60 - - - - - 4 709 4 688 65 - - - - - 5 335 urrent consumption in A 30 - 11.71 11.53 11.76 12.23 12.80 13.31 35 - 14.77 14.29 14.24 14.47 14.82 15.15 40 - 16.90 16.17 15.90 15.94 16.14 16.34 45 - - 17.56 17.12 17.03 17.13 17.26 50 - - - 18.29 18.13 18.18 18.30 60 - - - - 19.60 19.67 19.83 60 - - - -	3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655	2 827	2 808	2 793	2 783	2 780	2 786	-	40							
55	4 121 4 104 4 088 4 688 4 671 4 655	3 198	3 199	3 203	3 213	3 231	-	-	45							
60 - - - - 4709 4688 65 - - - - 5335 urrent consumption in A 30 - 11.71 11.53 11.76 12.23 12.80 13.31 35 - 14.77 14.29 14.24 14.47 14.82 15.15 40 - 16.90 16.17 15.90 15.94 16.14 16.34 45 - - 17.56 17.12 17.03 17.13 17.26 50 - - - 18.29 18.13 18.18 18.83 55 - - - 19.60 19.67 19.83 60 - - - - 21.97 22.23 65 - - - - 21.97 22.23 65 - - - - 21.97 22.23 ass flow in kg/h	4 688 4 671 4 655	3 627	3 641	3 658	3 682	-	-	-	50							
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55 - - - - 150 186 228 60 - - - - - 179 222 65 - - - - - 213 coefficient of performance (C.O.P.) 30 - 2.23 2.76 3.37 4.07 4.87 5.75 35 - 1.69 2.15 2.69 3.31 4.04 4.86 40 - 1.32 1.71 2.17 2.71 3.35 4.08 45 - - 1.37 1.76 2.22 2.77 3.41 50 - - - 1.43 1.82 2.28 2.82 55 - - - - 1.48 1.86 2.31 60 - - - - - 1.50 1.87		238		161	130	104	-	-	45							
60 - - - - 179 222 65 - - - - - 213 coefficient of performance (C.O.P.) 30 - 2.23 2.76 3.37 4.07 4.87 5.75 35 - 1.69 2.15 2.69 3.31 4.04 4.86 40 - 1.32 1.71 2.17 2.71 3.35 4.08 45 - - 1.37 1.76 2.22 2.77 3.41 50 - - - 1.43 1.82 2.28 2.82 55 - - - - 1.48 1.86 2.31 60 - - - - - - 1.50 1.87	233 281 336	233	192	156	126	-	-	-	50							
65 - - - - - 213 coefficient of performance (C.O.P.) 30 - 2.23 2.76 3.37 4.07 4.87 5.75 35 - 1.69 2.15 2.69 3.31 4.04 4.86 40 - 1.32 1.71 2.17 2.71 3.35 4.08 45 - - 1.37 1.76 2.22 2.77 3.41 50 - - - 1.43 1.82 2.28 2.82 55 - - - - 1.48 1.86 2.31 60 - - - - - - 1.50 1.87	228 277 332	228	186	150	-	-	-	-	55							
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30 - 2.23 2.76 3.37 4.07 4.87 5.75 35 - 1.69 2.15 2.69 3.31 4.04 4.86 40 - 1.32 1.71 2.17 2.71 3.35 4.08 45 - - 1.37 1.76 2.22 2.77 3.41 50 - - - 1.43 1.82 2.28 2.82 55 - - - 1.48 1.86 2.31 60 - - - - 1.50 1.87							.P.)	formance (C.O.	oefficient of per							
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55 - - - - 1.48 1.86 2.31 60 - - - - - 1.50 1.87								-								
60 1.50 1.87								-								
	 															
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C.O.P.

Cooling capacity

Current consumption

Power input

Mass flow

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

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

12 793

4 035

19.68

301

3.17

W

W

kg/h

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

Sound power data

Sound power level	69	dB(A)
With accoustic hood	64	dB(A)

All performance data +/- 5%



Danfoss scroll compressor. HRP054T5

Performance data at 50 Hz, EN 12900 rating conditions

R407C

Cond. temp. in	in Evaporating temperature in °C (to)								
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10
Cooling capacity	ı in W								
30	-	3 933	5 007	6 324	7 909	9 788	11 985	14 527	17 438
35		3 661	4 689	5 947	7 460	9 252	11 350	13 778	16 561
40		3 395	4 375	5 572	7 010		10 708	13 020	15 673
	-		4 056	5 189	6 549	8 713 8 162	10 708	12 244	
45		-		1		1			14 764
50	-	-	-	4 790	6 070	7 588	9 371	11 441	13 825
55	-	-	-	-	5 562	6 985	8 656	10 602	12 847
60	-	-	-	-	-	6 341	7 899	9 717	11 819
65	-	-	-	-	-	-	7 089	8 775	10 730
Power input in V	v								
30	-	1 891	1 946	2 009	2 078	2 150	2 225	2 300	2 374
35	-	2 333	2 354	2 384	2 420	2 461	2 505	2 549	2 593
40	-	2 786	2 780	2 783	2 793	2 808	2 827	2 847	2 866
45	-	-	3 231	3 213	3 203	3 199	3 198	3 200	3 201
50	-	-	-	3 682	3 658	3 641	3 627	3 616	3 606
55	-	-	-	_	4 166	4 141	4 121	4 104	4 088
60	-	-	-	-	-	4 709	4 688	4 671	4 655
65	-	-	-	_	-	-	5 335	5 324	5 315
		· I	-II	I		I			
Current consum	ption in A	11.71	11.53	11.76	10.00	12.90	12.21	12.61	12.55
30			1	11.76	12.23	12.80	13.31	13.61	13.55
35	-	14.77	14.29	14.24	14.47	14.82	15.15	15.30	15.11
40	-	16.90	16.17	15.90	15.94	16.14	16.34	16.39	16.14
45	-	-	17.56	17.12	17.03	17.13	17.26	17.27	17.02
50	-	-	-	18.29	18.13	18.18	18.30	18.33	18.12
55	-	-	-	-	19.60	19.67	19.83	19.93	19.82
60	-	-	-	-	-	21.97	22.23	22.46	22.52
65	-	-	-	-	-	-	25.89	26.31	26.58
Mass flow in kg/	h				•				•
30	-	89	112	138	169	205	247	294	349
35	-	88	110	136	167	203	244	292	347
40	-	86	108	134	165	200	242	290	344
45	-	-	105	131	161	197	239	287	342
50	-	-	-	126	157	193	235	283	338
55	-	-	-	-	151	187	230	278	334
60	-	-	-	-	-	180	223	272	328
65	-	-	-	-	-	-	214	264	321
Coefficient of pe	erformance (C.	O.P.)							
30	-	2.08	2.57	3.15	3.81	4.55	5.39	6.31	7.35
35	-	1.57	1.99	2.49	3.08	3.76	4.53	5.40	6.39
40	-	1.22	1.57	2.00	2.51	3.10	3.79	4.57	5.47
45	-	-	1.26	1.62	2.04	2.55	3.14	3.83	4.61
50	-	-	-	1.30	1.66	2.08	2.58	3.16	3.83
55	-	-	-	-	1.34	1.69	2.10	2.58	3.14
60	-	-	-	-	-	1.35	1.68	2.08	2.54
65	-	_	_	_	-	-	1.33	1.65	2.02

	•• •		
Cooling capacity	11 441	W	
Power input	3 616	W	
Current consumption	18.33	Α	
Mass flow	283	kg/h	
C.O.P.	3.16		

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Pressure switch settings

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

Sound power data

Sound power level	69	dB(A)
With accoustic hood	64	dB(A)

All performance data +/- 5%



Danfoss scroll compressor. HRP054T5

Performance data at 50 Hz, ARI rating conditions

R407C

35	12 798 15 497 18 585 12 173 14 761 17 724 11 543 14 018 16 855 10 899 13 258 15 967 10 231 12 473 15 050 9 530 11 652 14 095 8 786 10 785 13 093 7 989 9 864 12 035 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52	1463 935 405 862 299 704 068 - 150 461 808 199 641 141	8 464 8 020 7 576 7 122 6 649 6 147 - - 2 078 2 420 2 793	6 775 6 401 6 030 5 652 5 256 - - -	5 370 5 054 4 742 4 425 - - -	4 224 3 951 3 685 - - - -	in W	30 35 40 45 50
30	12 173 14 761 17 722 11 543 14 018 16 855 10 899 13 258 15 967 10 231 12 473 15 050 9 530 11 652 14 095 8 786 10 785 13 093 7 989 9 864 12 035 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58	935 405 862 299 704 068 - 150 461 808 199 641 141	8 020 7 576 7 122 6 649 6 147 - - 2 078 2 420 2 793	6 401 6 030 5 652 5 256 - - - 2 009	5 054 4 742 4 425 - - - -	3 951 3 685 - - - -	- - - - -	30 35 40 45 50 55
30	12 173 14 761 17 722 11 543 14 018 16 855 10 899 13 258 15 967 10 231 12 473 15 050 9 530 11 652 14 095 8 786 10 785 13 093 7 989 9 864 12 035 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58	935 405 862 299 704 068 - 150 461 808 199 641 141	8 020 7 576 7 122 6 649 6 147 - - 2 078 2 420 2 793	6 401 6 030 5 652 5 256 - - - 2 009	5 054 4 742 4 425 - - - -	3 951 3 685 - - - -	- - - - -	30 35 40 45 50 55
35	12 173 14 761 17 722 11 543 14 018 16 855 10 899 13 258 15 967 10 231 12 473 15 050 9 530 11 652 14 095 8 786 10 785 13 093 7 989 9 864 12 035 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58	935 405 862 299 704 068 - 150 461 808 199 641 141	8 020 7 576 7 122 6 649 6 147 - - 2 078 2 420 2 793	6 401 6 030 5 652 5 256 - - - 2 009	5 054 4 742 4 425 - - - -	3 951 3 685 - - - -	- - - -	35 40 45 50 55
40	11 543 14 018 16 855 10 899 13 258 15 967 10 231 12 473 15 050 9 530 11 652 14 095 8 786 10 785 13 093 7 989 9 864 12 035 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347	405 862 299 704 068 - 150 461 808 199 641 141	7 576 7 122 6 649 6 147 - - 2 078 2 420 2 793	6 030 5 652 5 256 - - - 2 009	4 742 4 425 - - - -	3 685 - - - -	- - - -	40 45 50 55
45	10 899 13 258 15 967 10 231 12 473 15 050 9 530 11 652 14 096 8 786 10 785 13 093 7 989 9 864 12 036 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345	862 299 704 068 - 150 461 808 199 641 141	7 122 6 649 6 147 - - 2 078 2 420 2 793	5 652 5 256 - - - - 2 009	4 425 - - - -	- - -		45 50 55
50	10 231 12 473 15 050 9 530 11 652 14 095 8 786 10 785 13 093 7 989 9 864 12 035 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238	299 704 068 - 150 461 808 199 641 141	6 649 6 147 - - 2 078 2 420 2 793	5 256 - - - - 2 009		- - -	- -	50 55
S5	9 530 11 652 14 098 8 786 10 785 13 093 7 989 9 864 12 038 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336	704 068 150 461 808 199 641 141	6 147 - - 2 078 2 420 2 793	- - - 2 009	- - -	-	-	55
66 - - - - - 7 969 over input in W 30 - 1 891 1 946 2 009 2 078 2 150 2 225 35 - 2 333 2 354 2 384 2 420 2 461 2 505 40 - 2 786 2 780 2 783 2 793 2 808 2 827 45 - - 3 231 3 213 3 203 3 199 3 198 50 - - - 3 682 3 688 3 641 4 141 4 122 60 - - - - 4 166 4 141 4 122 65 - - - - - 4 709 4 688 65 -	8 786 10 785 13 093 7 989 9 864 12 035 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336	150 461 808 199 641 141	- 2 078 2 420 2 793	2 009	-	-	-	
66 - - - - 7 989 ower input in W 30 - 1 891 1 946 2 009 2 078 2 150 2 225 35 - 2 333 2 354 2 384 2 420 2 461 2 505 40 - 2 786 2 780 2 783 2 793 2 808 2 827 45 - - 3 231 3 213 3 203 3 199 3 198 50 - - - 3 682 3 688 3 641 3 627 55 - - - - 4 166 4 141 4 121 60 - - - - - - 4 709 4 688 65 - - - - - - - - - 5 335 urrent consumption in A 30 - 11.71 11.53 11.76 12.23 12.80 <td< td=""><td>7 989 9 864 12 036 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336</td><td>150 461 808 199 641 141</td><td>2 078 2 420 2 793</td><td>2 009</td><td>-</td><td></td><td></td><td>60</td></td<>	7 989 9 864 12 036 2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336	150 461 808 199 641 141	2 078 2 420 2 793	2 009	-			60
30	2 225 2 300 2 374 2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336	461 808 199 641 141	2 078 2 420 2 793	2 009		-	-	0.5
30	2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336	461 808 199 641 141	2 420 2 793		4.040			65
35	2 505 2 549 2 593 2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336	461 808 199 641 141	2 420 2 793		4.040			ower input in W
40	2 827 2 847 2 866 3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336	808 199 641 141	2 793	2 384	1 946	1 891	-	30
45	3 198 3 200 3 201 3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336	199 641 141			2 354	2 333	-	35
50	3 627 3 616 3 606 4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336	641 141	3 203	2 783	2 780	2 786	-	40
55	4 121 4 104 4 088 4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336	141		3 213	3 231	-	-	45
60 - - - - 4709 4688 65 - - - - 5335 urrent consumption in A 30 - 11.71 11.53 11.76 12.23 12.80 13.31 35 - 14.77 14.29 14.24 14.47 14.82 15.15 40 - 16.90 16.17 15.90 15.94 16.14 16.34 45 - - 17.56 17.12 17.03 17.13 17.26 50 - - - 18.29 18.13 18.18 18.30 55 - - - 19.60 19.67 19.83 60 - - - - 21.97 22.23 65 - - - - 21.97 22.23 65 - - - - 21.97 22.23 45 -	4 688 4 671 4 655 5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336		3 658	3 682	-	-	-	50
65 - - - - - 5 335 urrent consumption in A 30 - 11.71 11.53 11.76 12.23 12.80 13.31 35 - 14.77 14.29 14.24 14.47 14.82 15.15 40 - 16.90 16.17 15.90 15.94 16.14 16.34 45 - - 17.56 17.12 17.03 17.13 17.26 50 - - - 18.29 18.13 18.18 18.30 60 - - - - 19.60 19.67 19.83 55 - - - - 19.60 19.67 19.83 60 - - - - - 21.97 22.23 65 - - - - - 21.97 22.23 45 - - 88 110 <td< td=""><td>5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336</td><td>709</td><td>4 166</td><td>-</td><td>-</td><td>-</td><td>-</td><td>55</td></td<>	5 335 5 324 5 315 13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336	709	4 166	-	-	-	-	55
urrent consumption in A 30	13.31 13.61 13.55 15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336		-	-	-	-	-	60
30	15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336	-	-	-	-	-	-	65
30	15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336							
35	15.15 15.30 15.11 16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336	2.80	12.23	11.76	11.53	11.71	tion in A	1.
40	16.34 16.39 16.14 17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336						_	
45	17.26 17.27 17.02 18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336							
50 - - - 18.29 18.13 18.18 18.30 55 - - - - 19.60 19.67 19.83 60 - - - - - - 21.97 22.23 65 - - - - - - 21.97 22.23 65 - - - - - - 21.97 22.23 65 - - - - - - 25.89 Bass flow in kg/h 30 - 89 111 138 168 204 245 35 - 88 110 136 166 202 243 40 - 86 108 133 164 199 241 45 - - 104 130 161 196 238 50 - - - - <td>18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	18.30 18.33 18.12 19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336							
55 - - - - 19.60 19.67 19.83 60 - - - - - 21.97 22.23 65 - - - - - 21.97 22.23 65 - - - - - - 25.89 sass flow in kg/h 30 - 89 111 138 168 204 245 35 - 88 110 136 166 202 243 40 - 86 108 133 164 199 241 45 - - 104 130 161 196 238 50 - - - 126 156 192 233 55 - - - - 179 222 65 - - - - - 179 222	19.83 19.93 19.82 22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336		İ					
60 21.97 22.23 65 25.89 ass flow in kg/h 30 - 89 111 138 168 204 245 35 - 88 110 136 166 202 243 40 - 86 108 133 164 199 241 45 - 104 130 161 196 238 50 1 - 126 156 192 233 55 - 1 - 1 - 150 186 228 60 150 186 228 60 213 oefficient of performance (C.O.P.) 30 - 2.23 2.76 3.37 4.07 4.87 5.75 35 - 1.69 2.15 2.69 3.31 4.04 4.86 40 - 1.32 1.71 2.17 2.71 3.35 4.08 45 1.32 1.71 2.17 2.71 3.35 4.08 45 1.32 1.71 2.17 2.71 3.35 4.08 45 1.37 1.76 2.22 2.77 3.41 50 1.48 1.86 2.31 60 1.50 1.87	22.23 22.46 22.52 25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336					_	_	
Ass flow in kg/h September 2018 Se	25.89 26.31 26.58 245 293 347 243 290 345 241 288 342 238 285 340 233 281 336							
See Section	245 293 347 243 290 345 241 288 342 238 285 340 233 281 336							
30 - 89 111 138 168 204 245 35 - 88 110 136 166 202 243 40 - 86 108 133 164 199 241 45 - - 104 130 161 196 238 50 - - - 126 156 192 233 55 - - - - 150 186 228 60 - - - - - 179 222 65 - - - - - - 179 222 65 - - - - - - 179 222 65 - - - - - - 213 oefficient of performance (C.O.P.) 30 - 2.23 2.76 3.37 4.07 </td <td>243 290 345 241 288 342 238 285 340 233 281 336</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	243 290 345 241 288 342 238 285 340 233 281 336							
35 - 88 110 136 166 202 243 40 - 86 108 133 164 199 241 45 - - 104 130 161 196 238 50 - - - 126 156 192 233 55 - - - - 150 186 228 60 - - - - - 179 222 65 - - - - - 179 222 65 - - - - - - 179 222 65 - - - - - - 179 222 65 - - - - - 213 coefficient of performance (C.O.P.) 30 - 2.23 2.76 3.37 4.07 4.87	243 290 345 241 288 342 238 285 340 233 281 336					I I		lass flow in kg/h
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45 - - 104 130 161 196 238 50 - - - 126 156 192 233 55 - - - - 150 186 228 60 - - - - - 179 222 65 - - - - - - 213 cefficient of performance (C.O.P.) 30 - 2.23 2.76 3.37 4.07 4.87 5.75 35 - 1.69 2.15 2.69 3.31 4.04 4.86 40 - 1.32 1.71 2.17 2.71 3.35 4.08 45 - - 1.37 1.76 2.22 2.77 3.41 50 - - - 1.43 1.82 2.28 2.82 55 - - - - 1.48	238 285 340 233 281 336					1	-	
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60 - - - - 179 222 65 - - - - - 213 coefficient of performance (C.O.P.) 30 - 2.23 2.76 3.37 4.07 4.87 5.75 35 - 1.69 2.15 2.69 3.31 4.04 4.86 40 - 1.32 1.71 2.17 2.71 3.35 4.08 45 - - 1.37 1.76 2.22 2.77 3.41 50 - - - 1.43 1.82 2.28 2.82 55 - - - - 1.48 1.86 2.31 60 - - - - - 1.50 1.87		192	156	126	-	-	-	50
65 - - - - - 213 coefficient of performance (C.O.P.) 30 - 2.23 2.76 3.37 4.07 4.87 5.75 35 - 1.69 2.15 2.69 3.31 4.04 4.86 40 - 1.32 1.71 2.17 2.71 3.35 4.08 45 - - 1.37 1.76 2.22 2.77 3.41 50 - - - 1.43 1.82 2.28 2.82 55 - - - 1.48 1.86 2.31 60 - - - - - 1.50 1.87	228 277 332	186	150	-	-	-	-	55
oefficient of performance (C.O.P.) 30 - 2.23 2.76 3.37 4.07 4.87 5.75 35 - 1.69 2.15 2.69 3.31 4.04 4.86 40 - 1.32 1.71 2.17 2.71 3.35 4.08 45 - - 1.37 1.76 2.22 2.77 3.41 50 - - - 1.43 1.82 2.28 2.82 55 - - - 1.48 1.86 2.31 60 - - - - - 1.50 1.87		179	-	-	-	-	-	60
30 - 2.23 2.76 3.37 4.07 4.87 5.75 35 - 1.69 2.15 2.69 3.31 4.04 4.86 40 - 1.32 1.71 2.17 2.71 3.35 4.08 45 - - 1.37 1.76 2.22 2.77 3.41 50 - - - 1.43 1.82 2.28 2.82 55 - - - 1.48 1.86 2.31 60 - - - - 1.50 1.87	213 262 319	-	-	-	-	-	-	65
30 - 2.23 2.76 3.37 4.07 4.87 5.75 35 - 1.69 2.15 2.69 3.31 4.04 4.86 40 - 1.32 1.71 2.17 2.71 3.35 4.08 45 - - 1.37 1.76 2.22 2.77 3.41 50 - - - 1.43 1.82 2.28 2.82 55 - - - 1.48 1.86 2.31 60 - - - - 1.50 1.87						.P.)	formance (C.O.	oefficient of per
40 - 1.32 1.71 2.17 2.71 3.35 4.08 45 - - 1.37 1.76 2.22 2.77 3.41 50 - - - 1.43 1.82 2.28 2.82 55 - - - - 1.48 1.86 2.31 60 - - - - 1.50 1.87	5.75 6.74 7.83	.87	4.07	3.37	2.76	2.23	-	30
40 - 1.32 1.71 2.17 2.71 3.35 4.08 45 - - 1.37 1.76 2.22 2.77 3.41 50 - - - 1.43 1.82 2.28 2.82 55 - - - - 1.48 1.86 2.31 60 - - - - 1.50 1.87	4.86 5.79 6.84	.04	3.31	2.69	2.15	1.69	-	35
45 - - 1.37 1.76 2.22 2.77 3.41 50 - - - 1.43 1.82 2.28 2.82 55 - - - - 1.48 1.86 2.31 60 - - - - 1.50 1.87	- 						-	
50 - - 1.43 1.82 2.28 2.82 55 - - - - 1.48 1.86 2.31 60 - - - - - 1.50 1.87			-				-	
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60 1.50 1.87							-	
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C.O.P.

Cooling capacity

Current consumption

Power input

Mass flow

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

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

12 793

4 035

19.68

301

3.17

W

W

kg/h

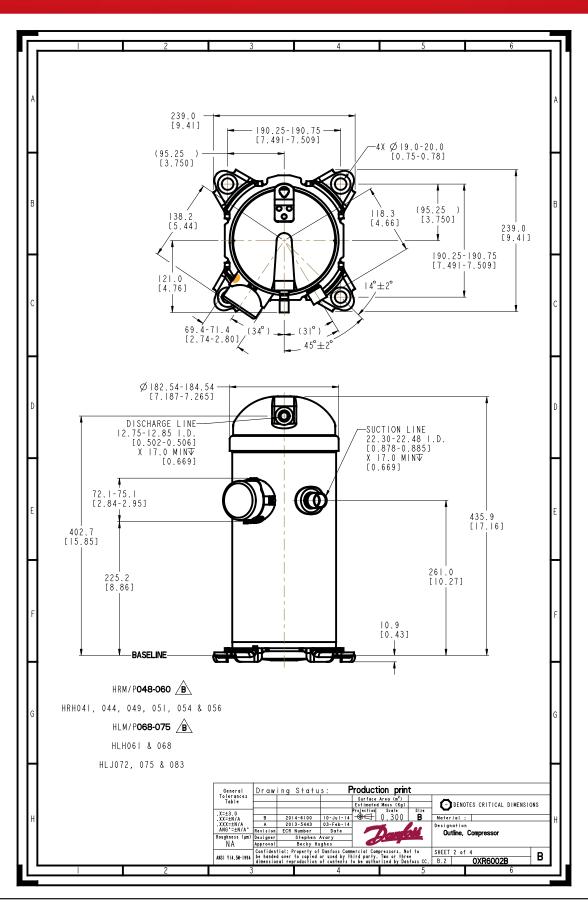
Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	69	dB(A)
With accoustic hood	64	dB(A)

All performance data +/- 5%





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