ENGINEERING TOMORROW



Datasheets

Danfoss scroll compressors **H series**





Datasheet, technical data

Danfoss scroll compressor, HRM038T4

General Characteristics

Model number (on compressor nameplate)		HRM038T4LP6	
Code number for Singlepack*		120U2372	
Code number for Industrial pack**		120U2369	
Drawing number		0XC6301B-2	
Suction and discharge connections		Brazed	
Suction connection		3/4 " 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	51.67 c	m3/rev	
Displacement @ Nominal speed	9.0 m3/h @ 2900 rpm - 10.9 m3/h @ 3500 rpm		
Net weight	30.84 kg		
Oil charge	1.06 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	3.63 kg		
Approved refrigerants	R22		

Electrical Characteristics

Licetifear enaracteristics	
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	4.66 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	4.66 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	3.42 Ω
Rated Load Amps (RLA)	6.4 A
Maximum Continuous Current (MCC)	10.0 A
Locked Rotor Amps (LRA)	45.0 A
Motor protection	Internal overload protector

Recommended Installation torques

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

Parts shipped with compressor

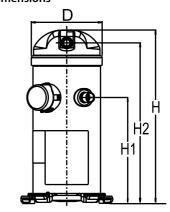
Tarts shipped with compressor	
Mounting kit with grommets and sleeves	
Initial oil charge	
Installation instructions	

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

*Singlepack: Compressor in cardboard box

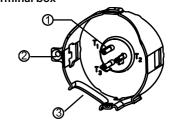
**Industrial pack: 12 or 16 Unboxed compressors on pallet

Dimensions



D=164.5 mm H=413 mm H1=250 mm H2=379 mm H3=- mm

Terminal box



IP22

3:

Spade connectors 1/4"
 Earth connection

Power cable passage



Datasheet, accessories and spare parts

Danfoss scroll compressor, HRM038T4

Rotolock accessories, suction side	Code no.
Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF)	8168006
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
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

Rotolock accessories, sets	Code no.
Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
Gasket set. 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

1: Rotolock adapter (Suc & Dis)

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

Oil / lubricants	Code no.
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Crankcase heaters	Code no.		
Belt type crankcase heater, 40 W, 230 V, CE mark, UL	120Z0055		
Belt type crankcase heater, 40 W, 400 V, CE mark, UL	120Z0056		

Miscellaneous accessories	Code no.		
Acoustic hood	120Z5043		
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



Danfoss scroll compressor. HRM038T4

Performance data at 50 Hz, EN 12900 rating conditions

R22

-25 in W 3 351 3 135 2 857 1 737 1 976 2 263 tion in A	-20 3 914 3 692 3 422 3 088 1 728 1 942 2 195 2 501	-15 4 742 4 496 4 216 3 886 3 489 1 722 1 921 2 150 2 422 2 749 -	-10 5 818 5 531 5 224 4 880 4 482 4 015 - 1 714 1 906 2 121 2 369 2 663	-5 7 127 6 781 6 430 6 054 5 638 5 166 4 620 - 1 696 1 892 2 101 2 335	0 8 651 8 230 7 816 7 392 6 941 6 446 5 891 5 260 1 661 1 870 2 083	5 10 374 9 860 9 367 8 878 8 375 7 841 7 259 6 614 1 603 1 834 2 060	10 12 280 11 656 11 067 10 495 9 923 9 333 8 708 8 031 1 515 1 777 2 026	
3 351 3 135 2 857 - - - - - - 1 737 1 976 2 263 - - - -	3 692 3 422 3 088 1 728 1 942 2 195 2 501	4 496 4 216 3 886 3 489 - - - 1 722 1 921 2 150 2 422 2 749	5 531 5 224 4 880 4 482 4 015 - - 1 714 1 906 2 121 2 369	6 781 6 430 6 054 5 638 5 166 4 620 - 1 696 1 892 2 101	8 230 7 816 7 392 6 941 6 446 5 891 5 260 1 661 1 870	9 860 9 367 8 878 8 375 7 841 7 259 6 614 1 603 1 834 2 060	11 656 11 067 10 495 9 923 9 333 8 708 8 031 1 515 1 777	
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	3 088 1 728 1 942 2 195 2 501	3 886 3 489 - - - - 1 722 1 921 2 150 2 422 2 749	4 880 4 482 4 015 - - 1 714 1 906 2 121 2 369	6 054 5 638 5 166 4 620 - 1 696 1 892 2 101	7 392 6 941 6 446 5 891 5 260 1 661 1 870	8 878 8 375 7 841 7 259 6 614 1 603 1 834 2 060	10 495 9 923 9 333 8 708 8 031 1 515 1 777	
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1 976 2 263 - - - - -	1 942 2 195 2 501 - -	1 921 2 150 2 422 2 749	1 906 2 121 2 369	1 892 2 101	1 870	1 834 2 060	1 777	-
1 976 2 263 - - - - -	1 942 2 195 2 501 - -	1 921 2 150 2 422 2 749	1 906 2 121 2 369	1 892 2 101	1 870	1 834 2 060	1 777	-
2 263 - - - - -	2 195 2 501 - - -	2 150 2 422 2 749	2 121 2 369	2 101		2 060		-
- - - -	2 501 - - -	2 422 2 749	2 369				2 020	
- - -		2 749		∠ 3.30	2 312	2 294	2 274	_
-	-		L (10.1	2 606	2 569	2 546	2 531	
-	-	_	3 015	2 925	2 866	2 830	2 811	
-		_	-	3 304	3 214	3 156	3 124	
			-	-	3 625	3 536	3 483	
tion in A		· · · · · ·			0 020	3 330	0 700	
4.37	4.13	4.08	4.13	4.19	4.20	4.07	3.71	
4.88	4.51	4.37	4.35	4.40	4.42	4.33	4.05	_
5.49	4.98	4.73	4.64	4.65	4.66	4.61	4.40	_
-					1		1	_
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		l			0.02	0.02	0.70	
73	84	101	122	148	177	210	246	_
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					3.75	1	5.46	-
-	1.24	1.60	2.06	2.59	3.20	3.87	4.62	-
-	-	1.27	1.68	2.16	2.70	3.29	3.92	-
-	-	-	1.33	1.77	2.25	2.77	3.32	-
-	-	-	-	1.40	1.83	2.30	2.79	-
-	-	-	-	-	1.45	1.87	2.31	-
		- 5.55	- 5.55 5.18 5.73	- 5.55 5.18 5.01 5.73 5.46 6.02 6.02	- 5.55 5.18 5.01 4.96 5.73 5.46 5.35 6.02 5.83 6.42 6.42 6.42 6.42 6.42 6.42 6.42 6.42 6.42 6.42 6.42 - 6.42 - 6.42 - 6.42 - 6.42 - 7.5 6.42 - 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	- 5.55 5.18 5.01 4.96 4.96 5.73 5.46 5.35 5.32 6.02 5.83 5.75 6.42 6.28 6.92 73 84 101 122 148 177 71 83 99 121 146 175 67 80 97 119 144 173 - 75 93 116 141 170 - 88 111 138 167 88 111 138 167 105 133 163 1 - 126 157 19 149 permance (C.O.P.) 1.93 2.27 2.75 3.39 4.20 5.21 1.59 1.90 2.34 2.90 3.58 4.40 1.26 1.56 1.96 2.46 3.06 3.75 - 1.24 1.60 2.06 2.59 3.20 - 1.27 1.68 2.16 2.70 - 1.33 1.77 2.25 1.45 proce at to = 5 °C, tc = 50 °C	- 5.55	- 5.55

to: Evaporating temperature at dew point

Cooling capacity

Current consumption

Power input

Mass flow

C.O.P.

tc: Condensing temperature at dew point

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

8 375

2 546

5.28

199

3.29

W

W

kg/h

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
	P	

Sound power level	67	dB(A)
With accoustic hood	62	dB(A)

All performance data +/- 5%



Danfoss scroll compressor. HRM038T4

Performance data at 50 Hz, ARI rating conditions

R22

Cond. temp. in				Evapora	ting temperature	in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling conceits	· in \A/								
Cooling capacity 30	3 559	4 154	5 028	6 165	7 546	9 153	10 969	12 975	
35	3 341	3 931	4 784	5 881	7 204	8 736	10 459	12 355	_
40	3 058	3 659	4 503	5 575	6 855	8 327	9 971	11 771	
45		3 317	4 169	5 230	6 482	7 908	9 489	11 207	
50	-	-	3 762	4 827	6 066	7 460	8 993	10 645	-
55		-	-	4 349	5 589	6 967	8 465	10 045	
60	<u>-</u>	-	-	-	5 033	6 409	7 887	9 451	
65	-		-	-	- 5 033	5 768	7 242	8 783	
00						3700	1 272	0 700	
Power input in W				1	T	T	1	1	
30	1 737	1 728	1 722	1 714	1 696	1 661	1 603	1 515	-
35	1 976	1 942	1 921	1 906	1 892	1 870	1 834	1 777	-
40	2 263	2 195	2 150	2 121	2 101	2 083	2 060	2 026	-
45	-	2 501	2 422	2 369	2 335	2 312	2 294	2 274	-
50	-	-	2 749	2 663	2 606	2 569	2 546	2 531	-
55	-	-	-	3 015	2 925	2 866	2 830	2 811	-
60	-	-	-	-	3 304	3 214	3 156	3 124	-
65	-	-	-	-	-	3 625	3 536	3 483	-
Current consum	ption in A								
30	4.37	4.13	4.08	4.13	4.19	4.20	4.07	3.71	-
35	4.88	4.51	4.37	4.35	4.40	4.42	4.33	4.05	-
40	5.49	4.98	4.73	4.64	4.65	4.66	4.61	4.40	-
45	-	5.55	5.18	5.01	4.96	4.96	4.92	4.77	-
50	-	-	5.73	5.46	5.35	5.32	5.28	5.17	-
55	-	-	-	6.02	5.83	5.75	5.71	5.62	-
60	-	-	-	-	6.42	6.28	6.22	6.14	-
65	-	-	-	-	-	6.92	6.82	6.75	-
Mass flow in kg/l		1 01	100	104	1	170	T	0.15	
30	72	84	100	121	147	176	209	245	-
35	70	82	99	120	145	174	206	241	-
40	67	79 75	97	118	143	172	203	238	-
45	-	75	93	115	141	169	201	235	-
50	-	-	88	111	137	166	198	232	-
55	-	-	-	104	132	162	194	229	-
60	-	-	-	-	125	156	190	225	-
65	-	-	-	-	-	148	183	219	-
Coefficient of pe	rformance (C.C	D.P.)							
30	2.05	2.40	2.92	3.60	4.45	5.51	6.84	8.57	-
35	1.69	2.02	2.49	3.08	3.81	4.67	5.70	6.95	-
40	1.35	1.67	2.09	2.63	3.26	4.00	4.84	5.81	-
45	-	1.33	1.72	2.21	2.78	3.42	4.14	4.93	-
50	-	-	1.37	1.81	2.33	2.90	3.53	4.21	-
55	-	-	-	1.44	1.91	2.43	2.99	3.58	-
60	-	-	-	-	1.52	1.99	2.50	3.03	-
65	-	-	-	-	-	1.59	2.05	2.52	-

	Nominal performance at to = 7.2 °C, tc = 54.4 °C							
	Cooling capacity	9 225	W					
	Power input	2 784	W					
	Current consumption	5.63	Α					
ı	Mass flow	210	kg/h					
ı	C.O.P.	3.31						

to: Evaporating temperature at dew point

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

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	67	dB(A)	
With accoustic hood	62	dB(A)	

All performance data +/- 5%

tc: Condensing temperature at dew point



Danfoss scroll compressor. HRM038T4

Performance data at 60 Hz, EN 12900 rating conditions

R22

Cond. temp. in	Evaporating temperature in °C (to)								
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacity	ı in W								
30	3 987	4 656	5 640	6 920	8 477	10 289	12 337	14 601	
35	3 736	4 397	5 354	6 588	8 077	9 802	11 743	13 880	_
40	3 413	4 084	5 030	6 232	7 671	9 325	11 176	13 202	
45		3 695	4 646	5 833	7 237	8 836	10 613	12 545	
	-	3 695	1					1	-
50	-	-	4 182	5 369	6 753	8 314	10 032	11 886	
55	-	-	-	4 820	6 200	7 737	9 412	11 204	-
60	-	-	-	-	5 557	7 085	8 731	10 476	-
65	-	-	-	-	-	6 337	7 969	9 680	-
Power input in W	ı								
30	2 082	2 072	2 066	2 055	2 033	1 992	1 923	1 820	-
35	2 357	2 319	2 295	2 278	2 260	2 234	2 191	2 125	-
40	2 685	2 608	2 556	2 522	2 498	2 477	2 450	2 410	-
45	-	2 953	2 863	2 802	2 761	2 734	2 712	2 689	-
50	-	-	3 229	3 130	3 063	3 020	2 993	2 975	-
55	-	-	-	3 521	3 417	3 347	3 305	3 283	-
60	-	-	-	-	3 836	3 730	3 662	3 625	-
65	-	-	-	_	-	4 182	4 078	4 016	-
		1	1	1					
Current consum	ption in A								
30	4.37	4.13	4.08	4.13	4.19	4.20	4.07	3.71	-
35	4.88	4.51	4.37	4.35	4.40	4.42	4.33	4.05	-
40	5.49	4.98	4.73	4.64	4.65	4.66	4.61	4.40	-
45	-	5.55	5.18	5.01	4.96	4.96	4.92	4.77	-
50	-	-	5.73	5.46	5.35	5.32	5.28	5.17	-
55	-	-	-	6.02	5.83	5.75	5.71	5.62	-
60	-	-	-	-	6.42	6.28	6.22	6.14	-
65	-	-	-	-	-	6.92	6.82	6.75	-
Mass flow in kg/	h	T	T	1	ı	1	T	1	
30	87	100	120	145	176	211	250	293	-
35	84	98	118	144	174	208	247	288	-
40	80	95	116	141	172	206	244	285	-
45	-	90	112	138	169	204	242	282	-
50	-	-	106	133	165	200	239	279	-
55	-	-	-	126	159	196	235	276	-
60	-	-	-	-	151	189	229	272	-
65	-	-	-	-	-	180	222	266	-
Coefficient of pe	rformance (C.C).P.)							
30	1.91	2.25	2.73	3.37	4.17	5.17	6.41	8.02	_
35	1.58	1.90	2.33	2.89	3.57	4.39	5.36	6.53	_
40	1.27	1.57	1.97	2.47	3.07	3.77	4.56	5.48	_
45	-	1.25	1.62	2.08	2.62	3.23	3.91	4.67	
50			1.02	1.72	2.02	2.75	3.35		
	-	-	1					4.00	-
55	-	-	-	1.37	1.81	2.31	2.85	3.41	-
60	-	-	-	-	1.45	1.90	2.38	2.89	-
65	-	-	-	-	-	1.52	1.95	2.41	-

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

Cooling capacity	10 032	W	
Power input	2 993	W	
Current consumption	5.28	Α	
Mass flow	239	kg/h	
C.O.P.	3.35		

to: Evaporating temperature at dew point

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

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 accoustic hood	66	dB(A)

All performance data +/- 5%

tc: Condensing temperature at dew point



Danfoss scroll compressor. HRM038T4

Performance data at 60 Hz, ARI rating conditions

R22

Cond. temp. in				Evapora	ating temperature	in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacity	v in W								
30	4 235	4 941	5 981	7 333	8 975	10 886	13 044	15 428	-
35	3 982	4 683	5 697	7 003	8 580	10 405	12 456	14 712	-
40	3 653	4 366	5 373	6 651	8 179	9 934	11 896	14 043	_
45	-	3 968	4 984	6 252	7 748	9 452	11 342	13 397	_
50	-	-	4 509	5 783	7 266	8 936	10 772	12 751	_
55	-	_	-	5 222	6 708	8 362	10 161	12 083	-
60	-	_	_	-	6 053	7 707	9 486	11 369	-
65	-	_	_	_	-	6 949	8 726	10 586	-
		•	•	•	•	•	•		
Power input in V						1			
30	2 082	2 072	2 066	2 055	2 033	1 992	1 923	1 820	-
35	2 357	2 319	2 295	2 278	2 260	2 234	2 191	2 125	-
40	2 685	2 608	2 556	2 522	2 498	2 477	2 450	2 410	-
45	-	2 953	2 863	2 802	2 761	2 734	2 712	2 689	-
50	-	-	3 229	3 130	3 063	3 020	2 993	2 975	-
55	-	-	-	3 521	3 417	3 347	3 305	3 283	-
60	-	-	-	-	3 836	3 730	3 662	3 625	-
65	-	-	-	-	-	4 182	4 078	4 016	-
Current consum	ption in A								
30	4.37	4.13	4.08	4.13	4.19	4.20	4.07	3.71	-
35	4.88	4.51	4.37	4.35	4.40	4.42	4.33	4.05	-
40	5.49	4.98	4.73	4.64	4.65	4.66	4.61	4.40	-
45	-	5.55	5.18	5.01	4.96	4.96	4.92	4.77	-
50	-	-	5.73	5.46	5.35	5.32	5.28	5.17	-
55	-	-	-	6.02	5.83	5.75	5.71	5.62	-
60	-	-	-	-	6.42	6.28	6.22	6.14	-
65	-	-	-	-	-	6.92	6.82	6.75	-
Mass flow in kg/	'h								
30	86	100	119	144	175	210	249	291	
35	84	98	118	143	173	207	245	287	
40	80	95	115	141	171	205	243	283	_
45	-	90	111	137	168	203	240	281	
50	-	-	105	133	164	199	237	278	_
55	-	-	-	125	158	195	233	274	-
60	_	_	_	-	150	188	228	270	_
65	-	_	-	_	-	179	221	264	-
		I	ı	I		-	ı		
Coefficient of pe	•		1	T		1	T		
30	2.03	2.38	2.90	3.57	4.41	5.47	6.78	8.48	-
35	1.69	2.02	2.48	3.07	3.80	4.66	5.68	6.92	-
40	1.36	1.67	2.10	2.64	3.27	4.01	4.86	5.83	•
45	-	1.34	1.74	2.23	2.81	3.46	4.18	4.98	-
50	-	-	1.40	1.85	2.37	2.96	3.60	4.29	-
55	-	-	-	1.48	1.96	2.50	3.07	3.68	-
60	-	-	-	-	1.58	2.07	2.59	3.14	-
65	-	-	-	-	-	1.66	2.14	2.64	-

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

reciminal performance at to 7.2	0, 10 0-1 0	
Cooling capacity	11 071 W	
Power input	3 254 W	
Current consumption	5.63 A	
Mass flow	252 kg/h	
C.O.P.	3.40	

to: Evaporating temperature at dew point

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

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)

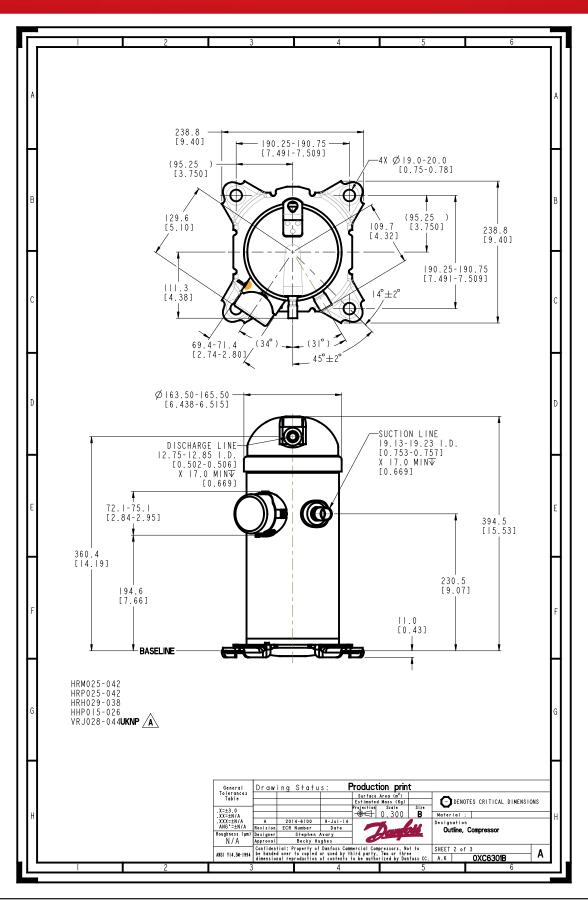
Sound power data

Sound power level	71	dB(A)
With accoustic hood	66	dB(A)

All performance data +/- 5%

tc: Condensing temperature at dew point





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