ENGINEERING



**Datasheets** 

# Danfoss scroll compressors **H series**





#### Datasheet, technical data

#### Danfoss scroll compressor, HRM034U4

#### **General Characteristics**

Model number (on compressor nameplate)	HRM034U4LP6		
Code number for Singlepack*	120U1001		
Code number for Industrial pack**	120U0998		
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	46.21 cm3/rev		
Displacement @ Nominal speed	8.0 m3/h @ 2900 rpm - 9.7 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

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	4.664 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	4.664 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	3.422 Ω
Rated Load Amps (RLA)	6.1 A
Maximum Continuous Current (MCC)	9.5 A
Locked Rotor Amps (LRA)	45 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

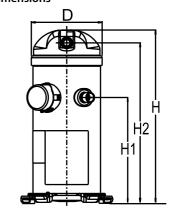
i alts shipped with compressor					
	Mounting kit with grommets and sleeves				
	Initial oil charge				
	Installation instructions				

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

\*Singlepack: Compressor in cardboard box

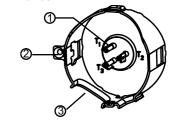
\*\*Industrial pack: 12 or 16 Unboxed compressors on pallet

#### **Dimensions**



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

#### **Terminal box**



IP22

Spade connectors 1/4"
 Earth connection

3: Power cable passage



#### Datasheet, accessories and spare parts

#### Danfoss scroll compressor, HRM034U4

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 Cod	e 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. HRM034U4

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

**R22** 

Cooling capacity in W	Cond. temp. in				Evapora	ating temperature	in °C (to)			
30	°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
30	• " "									
195			0.540	4.050	5.047	0.004	7.757	0.004	44.000	
40				1						-
45		2 816								-
50										-
55		-	-							-
60				-						-
Power input in W		-	-	-	-	4 675	5 834			-
Description   W   Section   Sectio		-	-	-	-	1			1	-
1   1   1   1   1   1   1   1   1   1	65	-	-	-	-	-	-	6 009	7 299	-
1   1   1   1   1   1   1   1   1   1	Power input in V	v								
35			1 543	1 538	1 531	1 516	1 484	1 430	1 345	_
40										
45						1				_
SO										-
Second Content of the Content of t			+			1				
Courrent consumption in A										
Current consumption in A  30										
Surrent consumption in A										
30	00					I.		0 101	0 1111	
30	Current consum	ption in A								
35	1		3.94	3.89	3.94	4.00	4.01	3.88	3.54	-
40			4.31	4.17			4.21			_
45										_
50		-		1						_
55		_	_			1				_
60 6.00 5.94 5.86 - 65 6.51 6.44   Mass flow in kg/h  30 65 76 90 109 132 159 188 221 6.51 6.44 215 6.51 6.44 215 6.51 6.44 215 6.51 6.44 215 6.51 6.44 215 6.51 6.44 215 6.51 6.44 215 6.51 6.44 215 6.51 6.44 215 6.51 6.45 217 6.51 6.51 6.45 217 6.51 6.51 6.51 6.51 6.51 6.51 6.51 6.51		_	_	_						_
Mass flow in kg/h		-		_			+			-
Mass flow in kg/h   30   65   76   90   109   132   159   188   221   -35   64   74   89   108   131   157   186   217   -40   -72   87   107   129   155   184   215   -45   -45   -5   -5   -5   -5   -7   -7   100   124   151   180   211   -5   155   -7   -7   100   124   151   180   211   -7   155   -7   -7   -7   100   124   151   180   211   -7   155   -7   -7   -7   -7   120   147   177   208   -7   -7   -7   -7   -7   167   200   -7   -7   -7   -7   -7   -7   167   200   -7   -7   -7   -7   -7   -7   -7					+					-
30 65 76 90 109 132 159 188 221 - 35 64 74 89 108 131 157 186 217 - 40 - 72 87 107 129 155 184 215 - 45 84 104 127 154 182 213 - 50 100 124 151 180 211 - 55 120 147 177 208 - 60 167 200 -  Coefficient of performance (C.O.P.)  30 1.94 2.27 2.76 3.41 4.22 5.23 6.51 8.19 - 35 1.57 1.89 2.33 2.89 3.57 4.38 5.35 6.54 - 40 - 1.53 1.93 2.42 3.01 3.69 4.47 5.38 - 45 1.56 2.00 2.52 3.11 3.76 4.48 - 50 1.61 2.07 2.59 3.15 3.76 - 55 1.61 2.07 2.59 3.14 2.60 -			l	1	l	1				
30 65 76 90 109 132 159 188 221 - 35 64 74 89 108 131 157 186 217 - 40 - 72 87 107 129 155 184 215 - 45 84 104 127 154 182 213 - 50 100 124 151 180 211 - 55 120 147 177 208 - 60 142 173 205 - 65 167 233 2.62 3.14 - 50 - 1.56 2.00 - 1.67 2.13 2.62 3.14 - 60 1.67 2.13 2.62 3.14 - 60 1.67 2.13 2.62 3.14 - 60 1.67 2.13 2.62 3.14 - 60 1.67 2.13 2.62 3.14 - 60 1.67 2.13 2.60 -	Mass flow in kg/	h								
35 64 74 89 108 131 157 186 217 - 40 - 72 87 107 129 155 184 215 - 45 84 104 127 154 182 213 - 50 100 124 151 180 211 - 55 120 147 177 208 - 60 120 147 177 208 - 65 1 120 147 173 205 - 65 1 120 147 173 205 - 65 - 1 167 200 -  Coefficient of performance (C.O.P.)  30 1.94 2.27 2.76 3.41 4.22 5.23 6.51 8.19 - 35 1.57 1.89 2.33 2.89 3.57 4.38 5.35 6.54 - 40 - 1.53 1.93 2.42 3.01 3.69 4.47 5.38 - 45 1 1.56 2.00 2.52 3.11 3.76 4.48 - 50 1 1.56 2.00 2.52 3.11 3.76 4.48 - 50 1 1.67 2.13 2.62 3.14 - 60 1.67 2.13 2.62 3.14 -			76	90	109	132	159	188	221	-
40       -       72       87       107       129       155       184       215       -         45       -       -       84       104       127       154       182       213       -         50       -       -       -       100       124       151       180       211       -         55       -       -       -       -       120       147       177       208       -         60       -       -       -       -       -       142       173       205       -         65       -       -       -       -       -       -       167       200       -         206       -       -       -       -       -       -       167       200       -         65       -       -       -       -       -       -       167       200       -         200       -       -       -       -       -       167       200       -         200       1.94       2.27       2.76       3.41       4.22       5.23       6.51       8.19       -         35       1.57       1.89										-
45		-		1						_
50         -         -         -         100         124         151         180         211         -           55         -         -         -         -         120         147         177         208         -           60         -         -         -         -         -         142         173         205         -           65         -         -         -         -         -         167         200         -           Coefficient of performance (C.O.P.)           30         1.94         2.27         2.76         3.41         4.22         5.23         6.51         8.19         -           35         1.57         1.89         2.33         2.89         3.57         4.38         5.35         6.54         -           40         -         1.53         1.93         2.42         3.01         3.69         4.47         5.38         -           45         -         -         1.56         2.00         2.52         3.11         3.76         4.48         -           50         -         -         -         1.61         2.07         2.59         3.15 <t< td=""><td></td><td>-</td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td>_</td></t<>		-				•				_
55         -         -         -         -         120         147         177         208         -           60         -         -         -         -         -         142         173         205         -           65         -         -         -         -         -         167         200         -           Coefficient of performance (C.O.P.)           30         1.94         2.27         2.76         3.41         4.22         5.23         6.51         8.19         -           35         1.57         1.89         2.33         2.89         3.57         4.38         5.35         6.54         -           40         -         1.53         1.93         2.42         3.01         3.69         4.47         5.38         -           45         -         -         1.56         2.00         2.52         3.11         3.76         4.48         -           50         -         -         -         1.61         2.07         2.59         3.15         3.76         -           55         -         -         -         -         1.67         2.13         2.62		_	_		1				1	_
60 142 173 205 65 167 200 167 200 167 200 167 200 167 200 167 200										-
65         -         -         -         -         -         -         167         200         -           Coefficient of performance (C.O.P.)           30         1.94         2.27         2.76         3.41         4.22         5.23         6.51         8.19         -           35         1.57         1.89         2.33         2.89         3.57         4.38         5.35         6.54         -           40         -         1.53         1.93         2.42         3.01         3.69         4.47         5.38         -           45         -         -         1.56         2.00         2.52         3.11         3.76         4.48         -           50         -         -         -         1.61         2.07         2.59         3.15         3.76         -           55         -         -         -         -         1.67         2.13         2.62         3.14         -           60         -         -         -         -         -         1.71         2.14         2.60         -										_
Coefficient of performance (C.O.P.)  30	1						+		1	_
30         1.94         2.27         2.76         3.41         4.22         5.23         6.51         8.19         -           35         1.57         1.89         2.33         2.89         3.57         4.38         5.35         6.54         -           40         -         1.53         1.93         2.42         3.01         3.69         4.47         5.38         -           45         -         -         1.56         2.00         2.52         3.11         3.76         4.48         -           50         -         -         -         1.61         2.07         2.59         3.15         3.76         -           55         -         -         -         1.67         2.13         2.62         3.14         -           60         -         -         -         -         1.71         2.14         2.60         -			1	ı	1	1	1		_20	
35         1.57         1.89         2.33         2.89         3.57         4.38         5.35         6.54         -           40         -         1.53         1.93         2.42         3.01         3.69         4.47         5.38         -           45         -         -         1.56         2.00         2.52         3.11         3.76         4.48         -           50         -         -         -         1.61         2.07         2.59         3.15         3.76         -           55         -         -         -         1.67         2.13         2.62         3.14         -           60         -         -         -         -         1.71         2.14         2.60         -	<u> </u>	•		4	1		1			
40     -     1.53     1.93     2.42     3.01     3.69     4.47     5.38     -       45     -     -     1.56     2.00     2.52     3.11     3.76     4.48     -       50     -     -     -     1.61     2.07     2.59     3.15     3.76     -       55     -     -     -     1.67     2.13     2.62     3.14     -       60     -     -     -     -     1.71     2.14     2.60     -				1						-
45     -     -     1.56     2.00     2.52     3.11     3.76     4.48     -       50     -     -     -     1.61     2.07     2.59     3.15     3.76     -       55     -     -     -     -     1.67     2.13     2.62     3.14     -       60     -     -     -     -     1.71     2.14     2.60     -						•				-
50     -     -     -     1.61     2.07     2.59     3.15     3.76     -       55     -     -     -     -     1.67     2.13     2.62     3.14     -       60     -     -     -     -     1.71     2.14     2.60     -				1				+		-
55     -     -     -     1.67     2.13     2.62     3.14     -       60     -     -     -     -     1.71     2.14     2.60     -										-
60 1.71 2.14 2.60 -		-	-	-	1.61					-
		-	-	-	-	1.67				-
65 1.72 2.12 -		-	-	-	-	-	1.71			-
	65	-	-	-	-	-	-	1.72	2.12	-
ominal performance at to = 5 °C, tc = 50 °C Pressure switch settings	anlina annaite		7.504	14/		Г	Massinas IID assi		20	h = =/=:)

Cooling capacity	7 564	W	
Power input	2 399	W	
Current consumption	5.04	Α	
Mass flow	180	kg/h	
C.O.P.	3.15		

to: Evaporating temperature at dew point

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%

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tc: Condensing temperature at dew point

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



#### Danfoss scroll compressor. HRM034U4

#### Performance data at 50 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		0.705	4.500	5.500	0.700	0.007	1 0004	44.004	
30	3 192	3 725	4 509	5 528	6 766	8 207	9 834	11 631	-
35	-	3 530	4 295	5 280	6 468	7 844	9 391	11 092	-
40	-	-	4 051	5 014	6 166	7 490	8 969	10 587	-
45	-	-	3 758	4 713	5 842	7 127	8 552	10 100	-
50	-	-	-	4 360	5 478	6 737	8 121	9 614	-
55	-	-	-	-	5 058	6 305	7 661	9 110	-
60	-	-	-	-	-	5 811	7 153	8 572	-
65	-	-	-	-	-	-	6 580	7 982	-
Power input in W	v								
30	1 553	1 543	1 538	1 531	1 516	1 484	1 430	1 345	-
35	-	1 754	1 733	1 720	1 707	1 688	1 654	1 600	_
40	-	_	1 967	1 938	1 920	1 904	1 883	1 851	_
45	-	_	2 250	2 198	2 165	2 144	2 128	2 109	-
50	-	-	-	2 510	2 455	2 420	2 399	2 385	-
55	-	_	_	-	2 800	2 743	2 709	2 692	_
60	-	_	_	_	-	3 125	3 069	3 040	_
65		-	-	-	-	-	3 491	3 441	_
		L	L	1	1	1		1 1	
Current consum	ption in A								
30	4.17	3.94	3.89	3.94	4.00	4.01	3.88	3.54	-
35	-	4.31	4.17	4.16	4.20	4.21	4.13	3.87	-
40	-	-	4.51	4.43	4.44	4.45	4.40	4.20	-
45	-	-	4.94	4.78	4.73	4.73	4.70	4.55	-
50	-	_	_	5.21	5.10	5.07	5.04	4.93	-
55	-	-	-	-	5.56	5.49	5.45	5.37	-
60	-	_	_	-	_	6.00	5.94	5.86	_
65	-	-	-	-	-	-	6.51	6.44	-
		•	1	•	1	1		1	
Mass flow in kg/	h								
30	65	75	90	109	132	158	187	220	-
35	-	74	89	108	130	156	185	216	-
40	-	-	87	106	129	155	183	214	-
45	-	-	84	104	127	153	181	212	-
50	-	_	_	100	124	150	179	209	_
55	-	_	-	-	119	147	176	207	-
60	-	-	-	-	-	142	172	204	-
65	-	_	-	-	_	-	166	199	-
•		l		<u>.</u>					
Coefficient of pe	•		0.00	0.04	4.10	F 50	0.00	0.05	
30	2.06	2.41	2.93	3.61	4.46	5.53	6.88	8.65	-
35	-	2.01	2.48	3.07	3.79	4.65	5.68	6.93	-
40	-	-	2.06	2.59	3.21	3.93	4.76	5.72	-
45	-	-	1.67	2.14	2.70	3.32	4.02	4.79	-
50	-	-	-	1.74	2.23	2.78	3.38	4.03	-
55	-	-	-	-	1.81	2.30	2.83	3.38	-
	_	-	-	-	-	1.86	2.33	2.82	-
60 65							1.88	2.32	

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 = 11.1 K , Subcooling = 8.3 K

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

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

All performance data +/- 5%

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W

W

kg/h

8 347

2 661

5.37

190

3.14



#### Danfoss scroll compressor. HRM034U4

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

**R22** 

Cond. temp. in				Evapora	ting temperature	in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacity	, in W								
30	3 577	4 179	5 063	6 212	7 609	9 236	11 077	13 113	_
35	3 344	3 939	4 798	5 902	7 236	8 782	10 522	12 439	_
40	-	3 648	4 496	5 570	6 856	8 334	9 988	11 800	
45		-	4 139	5 199	6 450	7 875	9 458	11 181	
		+						1	
50	-	-	-	4 770	6 001	7 388	8 914	10 561	-
55	-	-	-		5 493	6 855	8 338	9 924	-
60	-	-	-	-	-	6 259	7 712	9 251	-
65	-	-	-	-	-	-	7 021	8 524	-
Power input in W	ı								
30	1 822	1 811	1 805	1 797	1 778	1 742	1 678	1 580	-
35	2 093	2 052	2 029	2 013	1 998	1 975	1 937	1 874	-
40	-	2 346	2 294	2 261	2 240	2 221	2 197	2 160	-
45	-	-	2 614	2 555	2 517	2 492	2 473	2 451	_
50	-	-	-	2 906	2 842	2 802	2 778	2 762	-
55	-	-	-	-	3 229	3 164	3 125	3 104	-
60	-	-	-	-	-	3 590	3 526	3 492	-
65	-	-	-	-	-	-	3 997	3 938	-
•					•				
Current consum		1 001	1 000	1 001	1.00	1		1 054 1	
30	4.17	3.94	3.89	3.94	4.00	4.01	3.88	3.54	-
35	4.66	4.31	4.17	4.16	4.20	4.21	4.13	3.87	-
40	-	4.76	4.51	4.43	4.44	4.45	4.40	4.20	-
45	-	-	4.94	4.78	4.73	4.73	4.70	4.55	-
50	-	-	-	5.21	5.10	5.07	5.04	4.93	-
55	-	-	-	-	5.56	5.49	5.45	5.37	-
60	-	-	-	-	-	6.00	5.94	5.86	-
65	-	-	-	-	-	-	6.51	6.44	-
Mass flow in kg/l	h								
30	78	90	108	130	158	189	224	263	
35	76	88	106	129	156	187	221	258	_
40	-	85	104	126	153	184	218	255	_
45		-	100	123	151	181	215	252	_
50		_	-	118	147	178	212	248	
55		-	_	-	141	173	208	245	
60	<u>-</u>	-	-	-	- 141	167	208	245	<u> </u>
65		<b>+</b>		1			195	234	
00	-	-	-	-	-	-	190	۷۵4	-
Coefficient of pe	•	T .	T	T	T			, · · · · · · · · · · · · · · · · · · ·	
30	1.96	2.31	2.81	3.46	4.28	5.30	6.60	8.30	-
35	1.60	1.92	2.37	2.93	3.62	4.45	5.43	6.64	-
40	-	1.56	1.96	2.46	3.06	3.75	4.55	5.46	-
45	-	-	1.58	2.03	2.56	3.16	3.82	4.56	-
50	-	-	-	1.64	2.11	2.64	3.21	3.82	-
55	-	-	-	-	1.70	2.17	2.67	3.20	-
60	-	-	-	-	-	1.74	2.19	2.65	-
65	-	-	-	-	-	-	1.76	2.16	-

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

tronnia porto manos at to c, to	•• •		
Cooling capacity	8 914	W	
Power input	2 778	W	
Current consumption	5.04	Α	
Mass flow	212	kg/h	
C.O.P.	3.21		

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%

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tc: Condensing temperature at dew point



#### Danfoss scroll compressor. HRM034U4

#### 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
2	: \A/								
Cooling capacity 30	3 799	4 435	5 369	6 582	8 056	9 772	11 712	13 856	_
35	-	4 195	5 105	6 275	7 687	9 321	11 160	13 184	
		4 195						1	
40	-		4 802	5 945	7 310	8 878	10 632	12 552	-
45	-	-	4 441	5 572	6 906	8 424	10 109	11 940	-
50	-	-	-	5 138	6 457	7 941	9 571	11 330	-
55	-	-	-	-	5 943	7 409	9 001	10 702	-
60	-	-	-	-	-	6 809	8 380	10 040	-
65	-	-	-	-	-	-	7 688	9 322	-
Power input in W	1								
30	1 822	1 811	1 805	1 797	1 778	1 742	1 678	1 580	-
35	-	2 052	2 029	2 013	1 998	1 975	1 937	1 874	-
40	-	-	2 294	2 261	2 240	2 221	2 197	2 160	-
45	-	-	2 614	2 555	2 517	2 492	2 473	2 451	-
50	-	-	-	2 906	2 842	2 802	2 778	2 762	-
55	-	-	-	-	3 229	3 164	3 125	3 104	-
60	-	-	-	-	-	3 590	3 526	3 492	-
65	-	-	-	-	_	_	3 997	3 938	-
30	otion in <b>A</b> 4.17	3.94	3.89	3.94	4.00	4.01	3.88	3.54	
35	-	4.31	4.17	4.16	4.20	4.21	4.13	3.87	_
40	_	-	4.51	4.43	4.44	4.45	4.40	4.20	_
45	-	-	4.94	4.78	4.73	4.73	4.70	4.55	_
50	-	_	-	5.21	5.10	5.07	5.04	4.93	_
55		_	_	-	5.56	5.49	5.45	5.37	_
60	_	_	-	_	-	6.00	5.94	5.86	_
65		_	-	-	-	-	6.51	6.44	_
Mass flow in kg/h		<u> </u>	1	<u> </u>	<u> </u>	1	0.01	0.11	
30	77	89	107	130	157	188	223	262	-
35	-	88	105	128	155	186	220	257	-
40	-	-	103	126	153	183	217	253	_
45	-	-	99	123	150	180	214	250	_
50	-	_	-	118	146	177	211	247	_
55	-	_	_	-	140	172	207	243	-
60		_	-	-	-	166	201	239	_
			_	_	_	-		1	
65	-	-	-	-	-	-	194	233	-
Coefficient of per	2.08	2.45	2.97	3.66	4.53	5.61	6.98	8.77	_
35	-	2.04	2.52	3.12	3.85	4.72	5.76	7.04	_
40	<u> </u>	-	2.09	2.63	3.26	4.72	4.84	5.81	
45				2.03	2.74		4.04		
	-	-	1.70			3.38		4.87	-
50	-	-		1.77	2.27	2.83	3.45	4.10	-
55	-	-	-	-	1.84	2.34	2.88	3.45	-
60	-	-	-	-	-	1.90	2.38	2.87	-
65	-	_	_	_	-	_	1.92	2.37	-

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

monimum portormanos at to	0,	U-1		
Cooling capacity		9 811	W	
Power input		3 070	W	
Current consumption		5.37	Α	
Mass flow		223	kg/h	
C.O.P.		3.20		

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

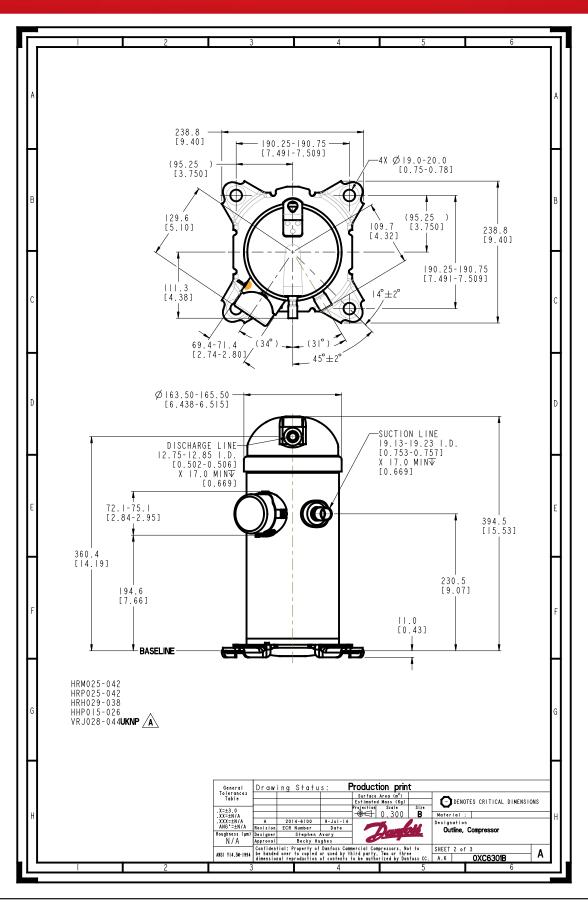
Sound power level	71	dB(A)
With accoustic hood	66	dB(A)

All performance data +/- 5%

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tc: Condensing temperature at dew point





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