ENGINEERING TOMORROW



**Datasheets** 

# Danfoss scroll compressors **H series**





### Datasheet, technical data

## Danfoss scroll compressor, HRH031U4

## **General Characteristics**

Model number (on compressor nameplate)		HRH031U4LP6
Code number for Singlepack*		120U1191
Code number for Industrial pack**		120U1188
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	29.69 cr	m3/rev
Displacement @ Nominal speed	5.2 m3/h @ 2900 rpm -	6.2 m3/h @ 3500 rpm
Net weight	30.84	ł kg
Oil charge	1.06 litre	, PVE
Maximum system test pressure Low Side / High side	- bar(g) /	- bar(g)
Maximum differential test pressure	- ba	ar
Maximum number of starts per hour	=	·
Refrigerant charge limit	3.63	kg
Approved refrigerants	R41	0A

### **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	4.660 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	3.420 Ω
Rated Load Amps (RLA)	6.4 A
Maximum Continuous Current (MCC)	10 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

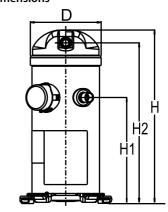
raits shipped with complessor	
Mounting kit with grommets and sleeves	
Initial oil charge	
Installation instructions	

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

\*Singlepack: Compressor in cardboard box

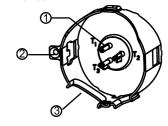
\*\*Industrial pack: 12 or 16 Unboxed compressors on pallet

### **Dimensions**



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

### **Terminal box**



IP22

Spade connectors 1/4" 1: 2:

Earth connection

Power cable passage



### Datasheet, accessories and spare parts

## Danfoss scroll compressor, HRH031U4

Code no.
8153008
8168006
8168029
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

Oil / lubricants	Code no.
PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034

Code no.
12075024

1: Rotolock adapter (Suc & Dis
2: Gasket (Suc & Dis)

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

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. HRH031U4

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

# **R410A**

Cond. temp. in Evaporating temperature in °C (to)									
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacity		0.000	0.745	4.700	5.074	7.004	0.775	40.500	
30	2 206	2 886	3 715	4 706	5 871	7 224	8 775	10 539	-
35	1 981	2 639	3 437	4 385	5 497	6 786	8 263	9 943	-
40	-	2 390	3 154	4 059	5 118	6 341	7 744	9 337	-
45	-	-	2 863	3 723	4 726	5 884	7 210	8 715	-
50	-	-	-	3 370	4 316	5 407	6 654	8 070	-
55	-	-	-	-	3 881	4 901	6 066	7 389	-
60	-	-	-	-	-	4 355	5 434	6 658	-
65	-	-	-	-	-	-	4 729	5 843	-
Power input in W	ı								
30	1 531	1 510	1 495	1 482	1 470	1 457	1 441	1 418	-
35	1 765	1 736	1 712	1 692	1 673	1 653	1 630	1 601	_
40	-	1 991	1 959	1 932	1 906	1 880	1 851	1 817	_
45		-	2 240	2 206	2 174	2 142	2 108	2 069	
50		-	-	2 516	2 478	2 441	2 402	2 359	
55		-	_	-	2 822	2 780	2 737	2 690	
60		-	-	-	-	3 162	3 115	3 065	
65	<u>-</u>	-	-	-	-		3 540	3 487	
00	-						0 040	J <del>1</del> 01	
Current consum	ption in A								
30	3.52	3.53	3.53	3.52	3.50	3.48	3.43	3.37	-
35	3.80	3.79	3.79	3.78	3.76	3.74	3.70	3.65	-
40	-	4.10	4.08	4.07	4.05	4.03	3.99	3.95	-
45	-	-	4.43	4.41	4.38	4.36	4.33	4.28	-
50	-	_	-	4.80	4.77	4.74	4.71	4.67	_
55	-	_	_	_	5.22	5.19	5.15	5.11	_
60	-	_	-	_	_	5.71	5.67	5.62	-
65	-	_	-	-	-	-	6.27	6.22	-
						1		-	
Mass flow in kg/l	h								
30	46	59	75	94	116	142	170	203	-
35	44	57	73	92	114	140	168	200	-
40	-	55	71	90	112	138	166	198	-
45	-	-	68	88	110	135	164	196	-
50	-	-	-	85	107	132	161	193	-
55	-	-	-	-	104	129	158	189	-
60	-	-	-	-	-	125	153	185	-
65	-	-	-	-	-	-	148	180	-
Coefficient of pe	1.44	1.91	2.49	2 10	3.99	4.96	6.09	7.42	_
				3.18				7.43	
35	1.12	1.52	2.01	2.59	3.29	4.11	5.07	6.21	-
40	-	1.20	1.61	2.10	2.68	3.37	4.18	5.14	-
45	-	-	1.28	1.69	2.17	2.75	3.42	4.21	-
50	-	-	-	1.34	1.74	2.21	2.77	3.42	-
55	-	-	-	-	1.38	1.76	2.22	2.75	-
60	-	-	-	-	-	1.38	1.74	2.17	-
65	-	-	-	-	_	-	1.34	1.68	_

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

	•••		
Cooling capacity	6 654	W	
Power input	2 402	W	
Current consumption	4.71	Α	
Mass flow	161	kg/h	
C.O.P.	2.77		

to: Evaporating temperature at dew point

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

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

### Sound power data

ı	Sound power level	65	dB(A)
ı	With accoustic hood	60	dB(A)

All performance data +/- 5%

tc: Condensing temperature at dew point  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 



## Danfoss scroll compressor. HRH031U4

## Performance data at 50 Hz, ARI rating conditions

# **R410A**

	Cond. temp. in				Evapora	ating temperature	in °C (to)			
30	°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
30										
155			0.440	4.004	5.007	0.040	7.704	0.404	44.000	
40				1			1			
45									1	
50										
55							1	1	1	
60			+	-						
Power Input in W		-	-	-	-	4 382	1	1	1	
			+			1	1			
30	65	-	-	-	-	-	-	5 632	6 943	-
30	Power input in W	ı								
35			1 510	1 495	1 482	1 470	1 457	1 441	1 418	
40										
45		-								
50									1	
Second Color	•		+							
Current consumption in A  30								1		
Current consumption in A  30									1	
Solution   A   Solution   Solution   A   Solution   Solution   A   Solution   A							+	1	1	
30			1	1	ı	L	1	1 23.0		
30	Current consum	ption in A								
35			3.53	3.53	3.52	3.50	3.48	3.43	3.37	_
40 4.08				1			3.74			
45		-	1							
50 4.80 4.77 4.74 4.71 4.67 55 5.22 5.19 5.15 5.11 60 5.22 5.19 5.15 5.11 60 5.71 5.67 5.62 6.27 6.22 6.22 6.27 6.22 6.22 6.27 6.22 6.22 6.27 6.		_	_	1			1	1	1	
55	1					1			1	
60 5.71 5.67 5.62 6.25 6.25 6.27 6.22		_	_							
Mass flow in kg/h  30	-				_			1	1	
Mass flow in kg/h   30									+	
30	00				I	l	1	0.27	0.22	
30	Mass flow in kg/l	h								
35         -         57         73         92         114         139         167         199         -           40         -         -         71         90         112         137         165         197         -           45         -         -         68         87         109         134         163         194         -           50         -         -         -         84         106         132         160         191         -           55         -         -         -         -         103         128         156         188         -           60         -         -         -         -         -         124         152         184         -           65         -         -         -         -         -         147         179         -           Coefficient of performance (C.O.P.)     Solution of performance (C.O.P.)   Solution of performance (C.O.P.)  Solution of performance (C.O.P.)  Solution of performance (C.O.P.)  Solution of performance (C.O.P.)  Solution of performance (C.O.P.)  Solution of performance (C.O.P.)  Solution of performance (C.O.P.)  Solution of performance (C.O.P.)  Solution of performance (C.O.P.)  Solution of performance (C.O.P.)  Solution of performance (C.O.P.)  Solution of performance (C.O.P.			59	75	94	116	141	169	201	
40         -         -         71         90         112         137         165         197         -           45         -         -         68         87         109         134         163         194         -           50         -         -         -         84         106         132         160         191         -           55         -         -         -         -         103         128         156         188         -           60         -         -         -         -         -         124         152         184         -           65         -         -         -         -         -         147         179         -           Coefficient of performance (C.O.P.)     Scottling of performance (C.O.P.)   Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.P.)  Scottling of performance (C.O.	•									
45         -         -         68         87         109         134         163         194         -           50         -         -         -         84         106         132         160         191         -           55         -         -         -         -         103         128         156         188         -           60         -         -         -         -         -         124         152         184         -           65         -         -         -         -         -         147         179         -           30         1.56         2.06         2.68         3.42         4.30         5.33         6.54         7.98         -           35         -         1.65         2.18         2.81         3.56         4.44         5.48         6.70         -           40         -         -         1.76         2.29         2.93         3.67         4.55         5.58         -           45         -         -         1.41         1.86         2.39         3.02         3.75         4.62         -           50         -							1	1	1	
50         -         -         -         84         106         132         160         191         -           55         -         -         -         -         103         128         156         188         -           60         -         -         -         -         124         152         184         -           65         -         -         -         -         -         147         179         -           Coefficient of performance (C.O.P.)         -         -         -         -         147         179         -           30         1.56         2.06         2.68         3.42         4.30         5.33         6.54         7.98         -           35         -         1.65         2.18         2.81         3.56         4.44         5.48         6.70         -           40         -         -         1.76         2.29         2.93         3.67         4.55         5.58         -           45         -         -         1.41         1.86         2.39         3.02         3.75         4.62         -           50         -         -         -			+			•				
55         -         -         -         103         128         156         188         -           60         -         -         -         -         124         152         184         -           65         -         -         -         -         147         179         -           Coefficient of performance (C.O.P.)         -         -         -         147         179         -           30         1.56         2.06         2.68         3.42         4.30         5.33         6.54         7.98         -           35         -         1.65         2.18         2.81         3.56         4.44         5.48         6.70         -           40         -         -         1.76         2.29         2.93         3.67         4.55         5.58         -           45         -         -         1.41         1.86         2.39         3.02         3.75         4.62         -           50         -         -         -         1.49         1.94         2.46         3.07         3.79         -           55         -         -         -         -         1.55         <					1				1	
60         -         -         -         -         -         124         152         184         -           65         -         -         -         -         147         179         -           Coefficient of performance (C.O.P.)           30         1.56         2.06         2.68         3.42         4.30         5.33         6.54         7.98         -           35         -         1.65         2.18         2.81         3.56         4.44         5.48         6.70         -           40         -         -         1.76         2.29         2.93         3.67         4.55         5.58         -           45         -         -         1.41         1.86         2.39         3.02         3.75         4.62         -           50         -         -         -         1.49         1.94         2.46         3.07         3.79         -           55         -         -         -         -         1.55         1.99         2.49         3.09         -           60         -         -         -         -         1.59         2.01         2.49         -										
65         -         -         -         -         -         147         179         -           Coefficient of performance (C.O.P.)           30         1.56         2.06         2.68         3.42         4.30         5.33         6.54         7.98         -           35         -         1.65         2.18         2.81         3.56         4.44         5.48         6.70         -           40         -         -         1.76         2.29         2.93         3.67         4.55         5.58         -           45         -         -         1.41         1.86         2.39         3.02         3.75         4.62         -           50         -         -         -         1.49         1.94         2.46         3.07         3.79         -           55         -         -         -         -         1.55         1.99         2.49         3.09         -           60         -         -         -         -         -         1.59         2.01         2.49         -	•									
Coefficient of performance (C.O.P.)       30     1.56     2.06     2.68     3.42     4.30     5.33     6.54     7.98     -       35     -     1.65     2.18     2.81     3.56     4.44     5.48     6.70     -       40     -     -     1.76     2.29     2.93     3.67     4.55     5.58     -       45     -     -     1.41     1.86     2.39     3.02     3.75     4.62     -       50     -     -     -     1.49     1.94     2.46     3.07     3.79     -       55     -     -     -     1.55     1.99     2.49     3.09     -       60     -     -     -     -     1.59     2.01     2.49     -	-				_				1	
30         1.56         2.06         2.68         3.42         4.30         5.33         6.54         7.98         -           35         -         1.65         2.18         2.81         3.56         4.44         5.48         6.70         -           40         -         -         1.76         2.29         2.93         3.67         4.55         5.58         -           45         -         -         1.41         1.86         2.39         3.02         3.75         4.62         -           50         -         -         -         1.49         1.94         2.46         3.07         3.79         -           55         -         -         -         -         1.55         1.99         2.49         3.09         -           60         -         -         -         -         -         1.59         2.01         2.49         -	00	<u> </u>						147	119	
35     -     1.65     2.18     2.81     3.56     4.44     5.48     6.70     -       40     -     -     1.76     2.29     2.93     3.67     4.55     5.58     -       45     -     -     1.41     1.86     2.39     3.02     3.75     4.62     -       50     -     -     -     1.49     1.94     2.46     3.07     3.79     -       55     -     -     -     1.55     1.99     2.49     3.09     -       60     -     -     -     -     1.59     2.01     2.49     -		•								
40     -     -     1.76     2.29     2.93     3.67     4.55     5.58     -       45     -     -     1.41     1.86     2.39     3.02     3.75     4.62     -       50     -     -     -     1.49     1.94     2.46     3.07     3.79     -       55     -     -     -     -     1.55     1.99     2.49     3.09     -       60     -     -     -     -     1.59     2.01     2.49     -				1	+		1		1	
45         -         -         1.41         1.86         2.39         3.02         3.75         4.62         -           50         -         -         -         1.49         1.94         2.46         3.07         3.79         -           55         -         -         -         -         1.55         1.99         2.49         3.09         -           60         -         -         -         -         1.59         2.01         2.49         -			•							
50     -     -     1.49     1.94     2.46     3.07     3.79     -       55     -     -     -     1.55     1.99     2.49     3.09     -       60     -     -     -     -     1.59     2.01     2.49     -		-		1	+			+	1	-
55     -     -     -     1.55     1.99     2.49     3.09     -       60     -     -     -     -     1.59     2.01     2.49     -	•	-	-						+	-
60 1.59 2.01 2.49 -		-	-	-	1.49		1	1	1	
		-	-	-	-	1.55	1.99		3.09	
65 1.59 1.99 -	60	-	-	-	-	-	1.59	2.01	2.49	-
	65		-	-	-	-	-	1.59	1.99	-
	Nominal perform	ance at to = 7.	2 °C, tc = 54.4 °C	10/		_	Pressure switch			

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

7 526

2 675

5.08

170

2.81

W

W

kg/h

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

### Sound power data

Sound power level	65	dB(A)
With accoustic hood	60	dB(A)

All performance data +/- 5%



## Danfoss scroll compressor. HRH031U4

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

# **R410A**

Cond. temp. in				Evapora	ting temperature	in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacity	ı in W								
30	2 641	3 455	4 448	5 634	7 029	8 647	10 503	12 612	_
35	2 376	3 164	4 119	5 255	6 589	8 133	9 903	11 914	_
40	-	2 870	3 786	4 872	6 142	7 612	9 295	11 206	_
45	-	-	3 443	4 476	5 682	7 074	8 668	10 478	-
	<u>-</u>	-	-	4 060		1	8 014	9 719	-
50 55	<u>-</u>	-	-	-	5 198 4 682	6 512 5 913	7 319	8 916	-
		+				1	+		
60	-	-	-	-	-	5 263	6 567	8 048	-
65	-	-	-	-	-	-	5 723	7 074	-
Power input in V	v								
30	1 817	1 793	1 775	1 760	1 745	1 729	1 710	1 685	-
35	2 078	2 045	2 018	1 995	1 972	1 948	1 922	1 889	-
40	-	2 324	2 289	2 258	2 228	2 198	2 164	2 125	-
45	-	-	2 591	2 553	2 516	2 479	2 440	2 395	-
50	-	-	-	2 882	2 839	2 797	2 752	2 702	-
55	-	-	-	-	3 200	3 153	3 103	3 049	-
60	-	-	-	-	-	3 550	3 497	3 439	-
65	-	-	-	_	-	-	3 935	3 875	-
		1		1		1			I
urrent consum		Т	T		1			1	Т
30	3.03	3.03	3.03	3.03	3.01	2.99	2.95	2.90	-
35	3.27	3.26	3.26	3.25	3.24	3.22	3.18	3.14	-
40	-	3.52	3.51	3.50	3.49	3.47	3.44	3.40	-
45	-	-	3.81	3.79	3.77	3.75	3.72	3.68	-
50	-	-	-	4.13	4.10	4.08	4.05	4.01	-
55	-	-	-	-	4.49	4.46	4.43	4.39	-
60	-	-	-	-	-	4.91	4.87	4.84	-
65	-	-	-	-	-	-	5.39	5.35	-
/lass flow in kg/	h								
30		71	90	113	139	169	204	243	_
35	52	69	88	111	137	167	202	240	-
40	-	66	85	108	135	165	199	238	_
45		-	82	106	132	163	199	235	-
50			- 02	100	129	159	197	232	
	-	-							-
55	-	-	-	-	125	156	190	228	-
60 65	-	-	-	-	-	151	185	224 218	-
65	-	-	-	-	-	-	180	218	-
coefficient of pe	•	T '	T -		1 .	_		T _	Т
30	1.45	1.93	2.51	3.20	4.03	5.00	6.14	7.49	-
35	1.14	1.55	2.04	2.63	3.34	4.17	5.15	6.31	-
40	-	1.23	1.65	2.16	2.76	3.46	4.30	5.27	-
45	-	-	1.33	1.75	2.26	2.85	3.55	4.37	-
50	-	-	-	1.41	1.83	2.33	2.91	3.60	-
55	-	-	-	-	1.46	1.88	2.36	2.92	-
60	-	-	-	-	-	1.48	1.88	2.34	-
65	-	-	-	-	-	-	1.45	1.83	-

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

Cooling capacity	8 014	W	
Power input	2 752	W	
Current consumption	4.05	Α	
Mass flow	194	kg/h	
C.O.P.	2.91		

to: Evaporating temperature at dew point

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

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

### Sound power data

I	Sound power level	68	dB(A)	
ı	With accoustic hood	63	dB(A)	

All performance data +/- 5%

tc: Condensing temperature at dew point



## Danfoss scroll compressor. HRH031U4

## Performance data at 60 Hz, ARI rating conditions

# **R410A**

Cond. temp. in				Evapora	iting temperature	in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacity	ı in W			•		•			
30	2 853	3 728	4 794	6 066	7 561	9 294	11 280	13 534	_
35	-	3 435	4 466	5 693	7 130	8 793	10 698	12 859	_
	<u>-</u>	3 433							-
40			4 137	5 316	6 695	8 288	10 110	12 178	
45	-	-	3 796	4 929	6 248	7 770	9 509	11 483	-
50	-	-	-	4 522	5 781	7 231	8 888	10 766	-
55	-	-	-	-	5 287	6 665	8 237	10 019	-
60	-	-	-	-	-	6 062	7 549	9 235	-
65	-	-	-	-	-	-	6 817	8 406	-
Power input in V	v								
30	1 817	1 793	1 775	1 760	1 745	1 729	1 710	1 685	-
35	-	2 045	2 018	1 995	1 972	1 948	1 922	1 889	-
40	-	-	2 289	2 258	2 228	2 198	2 164	2 125	-
45	-	-	2 591	2 553	2 516	2 479	2 440	2 395	-
50	_	-	-	2 882	2 839	2 797	2 752	2 702	_
55	-	-	-	-	3 200	3 153	3 103	3 049	-
60	-	-	-	_	-	3 550	3 497	3 439	-
65	_	-	-	_	-	-	3 935	3 875	_
00			1		1		1 0 000		
urrent consum					T		T		
30	3.03	3.03	3.03	3.03	3.01	2.99	2.95	2.90	-
35	-	3.26	3.26	3.25	3.24	3.22	3.18	3.14	-
40	-	-	3.51	3.50	3.49	3.47	3.44	3.40	-
45	-	-	3.81	3.79	3.77	3.75	3.72	3.68	-
50	-	-	-	4.13	4.10	4.08	4.05	4.01	-
55	-	-	-	-	4.49	4.46	4.43	4.39	-
60	-	-	-	-	-	4.91	4.87	4.84	-
65	-	-	-	-	-	-	5.39	5.35	-
/lass flow in kg/	h								
30	55	71	90	112	138	168	202	241	-
35	-	68	87	110	136	166	200	238	-
40	_	-	85	108	134	164	198	236	_
45	_	-	82	105	131	161	195	233	_
50	_	-	-	101	128	158	192	230	_
55	<u>-</u>	-	-	-	124	155	189	227	_
60	-	-	-	-	-	150	184	222	-
65	-	-	-	<u> </u>	-	-	178	217	-
03							170	211	
coefficient of pe	•		1		1		T	T 2	
30	1.57	2.08	2.70	3.45	4.33	5.37	6.60	8.03	-
35	-	1.68	2.21	2.85	3.62	4.51	5.57	6.81	-
40	-	-	1.81	2.35	3.00	3.77	4.67	5.73	-
45	-	-	1.47	1.93	2.48	3.13	3.90	4.79	-
50	-	-	-	1.57	2.04	2.59	3.23	3.98	-
55	-	-	-	-	1.65	2.11	2.65	3.29	-
60	-	-	-	-	-	1.71	2.16	2.69	-
65	_	-	-	_	-	-	1.73	2.17	_

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

Cooling capacity	9 079	W	
Power input	3 036	W	
Current consumption	4.37	Α	
Mass flow	205	kg/h	
C.O.P.	2.99		

to: Evaporating temperature at dew point

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

Pressure switch settings

Maximum HP switch setting	45	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	2.3	bar(g)

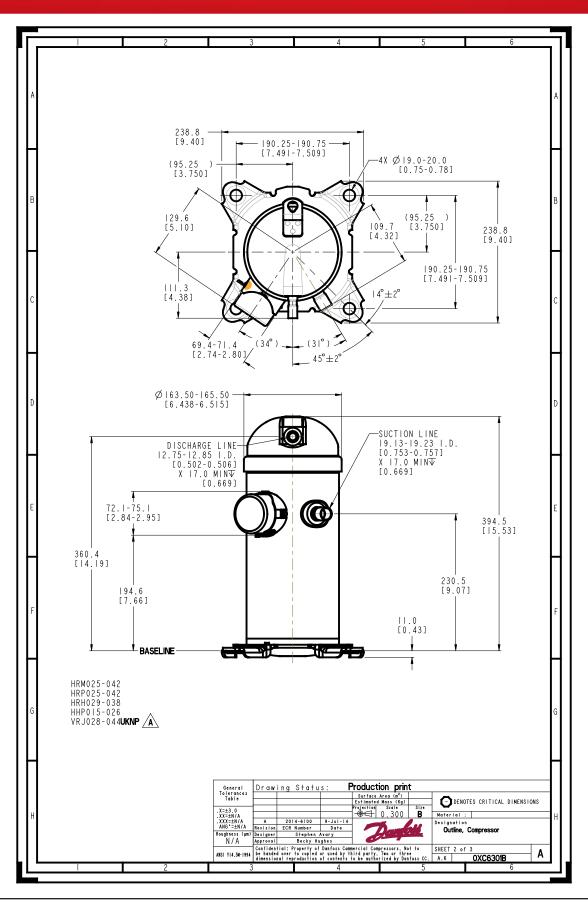
### Sound power data

Sound	oower level	68	dB(A)	
With ac	coustic hood	63	dB(A)	

All performance data +/- 5%

tc: Condensing temperature at dew point





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