ENGINEERING TOMORROW



Datasheets

Danfoss scroll compressors SM / SY / SZ / SH / WSH





Datasheet, technical data

Danfoss scroll compressor, SH140-4

General Characteristics

Model number (on compressor nameplate)		SH140A4ALC		
Code number for Singlepack*		120H0201		
Code number for Industrial pack**		120H0202		
Drawing number		8560003h		
Suction and discharge connections		Brazed		
Suction connection		1-3/8 " ODF		
Discharge connection		7/8 " ODF		
Oil sight glass		Threaded		
Oil equalisation connection		1-3/4" Rotolock		
Oil drain connection		None		
LP gauge port		Schrader		
IPR valve		None		
Swept volume	132.9 c	m3/rev		
Displacement @ Nominal speed	23.1 m3/h @ 2900 rpm	- 27.9 m3/h @ 3500 rpm		
Net weight	67	kg		
Oil charge	3.3 litre, P0	DE - 160SZ		
Maximum system test pressure Low Side / High side	33.3 bar(g)	/ 48.7 bar(g)		
Maximum differential test pressure	37 bar			
Maximum number of starts per hour	1	2		
Refrigerant charge limit	7.9	kg		
Approved refrigerants	R410A			

Electrical Characteristics

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	342-440 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25℃	0.92 Ω
Rated Load Amps (RLA)	21.4 A
Maximum Continuous Current (MCC)	30 A
Locked Rotor Amps (LRA)	147 A
Motor protection	Internal overload protector

Recommended Installation torques

Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Mounting bolts	15 Nm

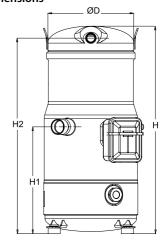
Parts shipped with compressor

Mounting kit with grommets, bolts, nuts, sleeves and washers Initial oil charge Installation instructions

Approvals: CE certified, UL certified (file SA6873), -

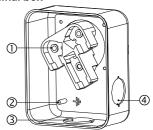
*Singlepack: Compressor in cardboard box

Dimensions



D=243 mm H=540 mm H1=278 mm H2=509 mm H3=- mm

Terminal box



IP54 (with cable gland)

- 1: Power connection, 3 x 4.8 mm (3/16")
- 2: Earth M4-12
- 3: Knock-out Ø 29 mm (1.14")
- 4: Knock-out Ø 25.5 mm (1.00")

^{**}Industrial pack: 8 Unboxed compressors on pallet (order per multiples of 8)



Datasheet, accessories and spare parts

Danfoss scroll compressor, SH140-4

Rotolock accessories, suction side	Code no.
Solder sleeve, P10 (1-3/4" Rotolock, 1-3/8" ODF)	8153003
Rotolock valve, V10 (1-3/4" Rotolock, 1-3/8" ODF)	8168022
Gasket, 1-3/4"	8156132
Rotolock accessories, discharge side	Code no.
Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-3/4"	8156132
Rotolock accessories, sets	Code no.
Solder sleeve adapter set (1-3/4" Rotolock, 1-3/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0405
Valve set, V10 (1-3/4"~1-3/8"), V05 (1-1/4"~7/8")	7703392
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013
Oil / lubricants	Code no.
POE lubricant, 160SZ, 1 litre can	7754023
POE lubricant, 160SZ, 2.5 litre can	120Z0571
Crankcase heaters	Code no.
Surface sump heater, 80 W, 24 V, CE mark, UL	120Z0388
Surface sump heater, 80 W, 230 V, CE mark, UL	120Z0389
Surface sump heater, 80 W, 400 V, CE mark, UL	120Z0390
Surface sump heater, 80 W, 460 V, CE mark, UL	120Z0391
Miscellaneous accessories	Code no.
Acoustic hood for scroll compressor SH105-161 & SM124, SM147	120Z0035
Gasket, 1-3/4"	8156132
Discharge thermostat kit	7750009
Spare parts	Code no.
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z0066
Oil sight glass with gaskets (black & white)	8156019
Service kit for terminal box 96 x 115 mm, including 1 cover, 1 clamp	8156135
T block connector 52 x 57 mm	8173230



Danfoss scroll compressor. SH140-4

Performance data at 50 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
N 11	. ! >4/								
Cooling capacity		15 202	10.050	22.806	27 507	32,020	20.222	46 200	E4 200
30	12 459	15 393	18 850	22 896	27 597	33 020	39 232	46 300	54 289
35	11 572	14 428	17 776	21 681	26 211	31 431	37 409	44 211	51 904
40	-	13 435	16 644	20 378	24 706	29 693	35 406	41 912	49 278
45	-	-	15 450	18 983	23 078	27 802	33 220	39 400	46 408
50	-	-	14 191	17 493	21 325	25 754	30 847	36 670	43 289
55	-	-	-	15 903	19 442	23 547	28 283	33 719	39 920
60	-	-	-	-	17 426	21 176	25 526	30 544	36 296
65	-	-	-	-	-	-	22 571	27 141	32 414
Power input in W	ı								
30	6 051	6 152	6 243	6 324	6 392	6 445	6 481	6 497	6 492
35	6 680	6 781	6 877	6 964	7 041	7 106	7 156	7 189	7 203
40	-	7 492	7 587	7 678	7 760	7 833	7 893	7 940	7 969
45	-	-	8 395	8 484	8 568	8 645	8 713	8 769	8 811
50	-	-	9 319	9 404	9 487	9 564	9 635	9 697	9 748
55	-	_	-	10 458	10 535	10 610	10 680	10 745	10 800
60	-	-	-	-	11 733	11 801	11 868	11 931	11 988
65	-	_	_	_	-	-	13 219	13 277	13 332
		l	l	1	l	1	.02.0	102	.0002
urrent consum	ption in A								
30	13.60	13.69	13.76	13.80	13.85	13.91	13.99	14.11	14.27
35	14.29	14.42	14.51	14.58	14.64	14.71	14.79	14.90	15.05
40	-	15.21	15.33	15.42	15.50	15.57	15.65	15.75	15.89
45	-	-	16.26	16.37	16.46	16.54	16.62	16.72	16.84
50	-	-	17.35	17.48	17.59	17.68	17.76	17.85	17.96
55	-	-	-	18.80	18.92	19.02	19.10	19.18	19.28
60	-	-	-	-	20.51	20.62	20.70	20.78	20.86
65	-	-	-	-	-	-	22.60	22.67	22.74
•			•		•		•	•	•
lass flow in kg/	h	•	•	T	•	T	•		
30	258	317	383	460	548	648	762	892	1 038
35	254	313	380	457	546	647	761	892	1 039
40	-	308	376	453	542	644	759	890	1 038
45	-	-	370	448	537	639	755	886	1 035
50	-	-	363	441	531	633	749	881	1 030
55	-	-	-	433	522	625	741	873	1 022
60	-	-	-	-	513	615	731	863	1 013
65	-	-	-	-	-	-	719	852	1 001
Coefficient of pe	rformanco (C O) D)							
30	2.06	2.50	3.02	3.62	4.32	5.12	6.05	7.13	8.36
35	1.73	2.13	2.58	3.11	3.72	4.42	5.23	6.15	7.21
40	-	1.79	2.19	2.65	3.18	3.79	4.49	5.28	6.18
45	-	-	1.84	2.24	2.69	3.22	3.81	4.49	5.27
50	-	_	1.52	1.86	2.25	2.69	3.20	3.78	4.44
55		_	-	1.52	1.85	2.22	2.65	3.14	3.70
		1	-	-	1.49	1.79	2.05	2.56	3.03
60	-	-							

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

Cooling capacity	30 847	W
Power input	9 635	W
Current consumption	17.76	Α
Mass flow	749	kg/h
C.O.P.	3.20	

to: Evaporating temperature at dew point

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

Pressure switch settings

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

5	Sound power level	72.5	dB(A)
١	With accoustic hood	66.5	dB(A)

Tolerance according EN12900

tc: Condensing temperature at dew point



Danfoss scroll compressor. SH140-4

Performance data at 50 Hz, ARI rating conditions

R410A

Cond. temp. in				Evapora	ating temperature	in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
0 11	. ! \#/								
Cooling capacity		16 606	20.245	24.651	29 686	25 400	42 132	49 683	E0 212
30	13 455	ł	20 315	24 651		35 490			58 213
35	12 578	15 664	19 277	23 487	28 365	33 982	40 409	47 715	55 973
40	-	14 698	18 184	22 237	26 929	32 330	38 512	45 546	53 503
45	-	-	17 036	20 902	25 378	30 535	36 444	43 178	50 807
50	-	-	-	19 484	23 716	28 600	34 211	40 619	47 897
55	-	-	-	17 990	21 952	26 541	31 829	37 891	44 800
60	-	-	-	-	20 117	24 393	29 345	35 050	41 583
65	-	-	-	-	-	-	26 886	32 250	38 430
Power input in V	٧								
30	6 051	6 152	6 243	6 324	6 392	6 445	6 481	6 497	6 492
35	6 680	6 781	6 877	6 964	7 041	7 106	7 156	7 189	7 203
40	-	7 492	7 587	7 678	7 760	7 833	7 893	7 940	7 969
45	-	-	8 395	8 484	8 568	8 645	8 713	8 769	8 811
50	-	-	-	9 404	9 487	9 564	9 635	9 697	9 748
55	-	-	-	10 458	10 535	10 610	10 680	10 745	10 800
60	-	-	-	-	11 733	11 801	11 868	11 931	11 988
65	-	-	-	-	-	-	13 219	13 277	13 332
				•		•			•
current consum		1		T		T	1		1
30	13.60	13.69	13.76	13.80	13.85	13.91	13.99	14.11	14.27
35	14.29	14.42	14.51	14.58	14.64	14.71	14.79	14.90	15.05
40	-	15.21	15.33	15.42	15.50	15.57	15.65	15.75	15.89
45	-	-	16.26	16.37	16.46	16.54	16.62	16.72	16.84
50	-	-	-	17.48	17.59	17.68	17.76	17.85	17.96
55	-	-	-	18.80	18.92	19.02	19.10	19.18	19.28
60	-	-	-	-	20.51	20.62	20.70	20.78	20.86
65	-	-	-	-	-	-	22.60	22.67	22.74
Mass flow in kg/	h								
30	257	315	381	457	544	644	757	885	1 030
35	253	311	378	454	542	642	756	885	1 031
40	-	306	374	450	539	639	754	884	1 030
45	-	-	368	445	534	635	750	880	1 027
50	_	_	-	439	527	628	744	874	1 022
55	_	_	_	431	519	620	736	867	1 015
60		_	-	-	509	611	726	857	1 005
65		_	-	-	-	-	715	845	993
•		•	•	•	•	•		•	•
Coefficient of pe	•	1	2.05	2.00	4.04	5.54	0.50	7.05	0.07
30	2.22	2.70	3.25	3.90	4.64	5.51	6.50	7.65	8.97
35	1.88	2.31	2.80	3.37	4.03	4.78	5.65	6.64	7.77
40	-	1.96	2.40	2.90	3.47	4.13	4.88	5.74	6.71
45	-	-	2.03	2.46	2.96	3.53	4.18	4.92	5.77
50	-	-	-	2.07	2.50	2.99	3.55	4.19	4.91
55	-	-	-	1.72	2.08	2.50	2.98	3.53	4.15
60	-	-	-	-	1.71	2.07	2.47	2.94	3.47
65	-	-	-	-	-	-	2.03	2.43	2.88
						D	441		
ominal perform	nance at to = 7.2	2 °C, tc = 54.4 °C				Pressure switch	settings		

Homman portormanos at to	0,	04.4 0	
Cooling capacity		34 707	W
Power input		10 577	W
Current consumption		18.96	Α
Mass flow		793	kg/h
C.O.P.		3.28	

to: Evaporating temperature at dew point

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

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

5	Sound power level	72.5	dB(A)
١	With accoustic hood	66.5	dB(A)

Tolerance according EN12900

tc: Condensing temperature at dew point



Danfoss scroll compressor. SH140-4

Performance data at 60 Hz, EN 12900 rating conditions

R410A

Cond. temp. in				Evapora	ating temperature	in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
N 11									
Cooling capacity	15 034	18 596	22 780	27 673	33 362	39 935	47 477	56 076	65 820
30									
35	14 138	17 584	21 617	26 323	31 789	38 102	45 347	53 612	62 982
40	-	16 471	20 324	24 813	30 026	36 048	42 965	50 863	59 828
45	-	-	18 925	23 167	28 096	33 795	40 351	47 849	56 375
50	-	-	17 442	21 405	26 017	31 361	37 522	44 584	52 632
55	-	-	-	19 539	23 798	28 750	34 478	41 064	48 592
60	-	-	-	-	21 427	25 943	31 189	37 249	44 202
65	-	-	-	-	-	-	27 546	33 001	39 295
Power input in V	V								
30	7 329	7 445	7 573	7 707	7 844	7 980	8 112	8 234	8 344
35	8 074	8 183	8 307	8 442	8 586	8 733	8 880	9 023	9 157
40	-	9 016	9 130	9 261	9 404	9 555	9 712	9 869	10 022
45	-	-	10 068	10 187	10 324	10 474	10 633	10 797	10 964
50	-	_	11 147	11 248	11 372	11 513	11 669	11 835	12 007
55	_	-	-	12 469	12 573	12 700	12 846	13 007	13 179
60		-	-	-	13 953	14 060	14 189	14 339	14 504
65		_	_	-	-	-	15 725	15 857	16 009
00		l	I.	I.	I.	I	10720	10 007	10 000
urrent consum	ption in A								
30	13.01	13.09	13.18	13.28	13.40	13.53	13.69	13.87	14.08
35	13.76	13.87	13.99	14.11	14.25	14.40	14.58	14.77	14.99
40	-	14.74	14.88	15.02	15.17	15.33	15.51	15.71	15.93
45	-	-	15.89	16.04	16.20	16.37	16.55	16.74	16.96
50	-	-	17.09	17.24	17.39	17.56	17.73	17.92	18.13
55	-	-	_	18.65	18.80	18.96	19.12	19.29	19.48
60	-	-	_	_	20.47	20.61	20.75	20.90	21.06
65	-	-	-	-	-	-	22.68	22.80	22.93
L				•		II.		.1	I
Mass flow in kg/	h								
30	313	383	463	556	662	784	922	1 080	1 257
35	310	380	461	554	661	784	923	1 082	1 260
40	-	377	458	552	659	782	922	1 081	1 260
45	-	-	454	547	654	778	918	1 077	1 257
50	-	-	448	541	648	771	912	1 071	1 251
55	-	-	-	533	640	763	903	1 062	1 242
60	-	-	-	-	630	752	892	1 051	1 230
65	-	-	-	-	-	-	878	1 036	1 215
30	2.05	2.50	3.01	3.59	4.25	5.00	5.85	6.81	7.89
35	1.75	2.30	2.60	3.12	3.70	4.36	5.05	5.94	6.88
		1							5.97
40	-	1.83	2.23	2.68	3.19	3.77	4.42	5.15	
45	-	-	1.88	2.27	2.72	3.23	3.79	4.43	5.14
50	-	-	1.56	1.90	2.29	2.72	3.22	3.77	4.38
55	-	-	-	1.57	1.89	2.26	2.68	3.16	3.69
60	-	-	-	-	1.54	1.85	2.20	2.60	3.05
65	-	-	-	-	-	-	1.75	2.08	2.45

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

-,			
Cooling capacity	37 522	W	
Power input	11 669	W	
Current consumption	17.73	Α	
Mass flow	912	kg/h	
C.O.P.	3.22		

to: Evaporating temperature at dew point

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

Pressure switch settings

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

Sound power level	76	dB(A)
With accoustic hood	70	dB(A)

Tolerance according EN12900

tc: Condensing temperature at dew point



Danfoss scroll compressor. SH140-4

Performance data at 60 Hz, ARI rating conditions

R410A

Control Cont	Cond. temp. in				Evapora	ting temperature i	n °C (to)			
30	°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
30	Caaling canacit	ı in W								
35			20.061	24.550	20.70F	25 000	42.021	E0.096	60.174	70 570
	1									
45							1			
50										
	-									
60					1		1			
Cover Input in W Sept Se		-		-	22 102					
Name		-	_	-	-					
30	00		_	-		-		32 011	39 2 13	40 309
35	Power input in V	V								
40	30	7 329	7 445	7 573	7 707	7 844	7 980	8 112	8 234	8 344
45	35	8 074	8 183	8 307	8 442	8 586	8 733	8 880	9 023	9 157
Section Sect	40	-	9 016	9 130	9 261	9 404	9 555	9 712	9 869	10 022
12 12 13 15 15 15 15 15 15 15	45		-	10 068	10 187	10 324	10 474	10 633	10 797	10 964
Conficient of performance (C.O.P.) Conficien	50		-	-	11 248	11 372	11 513	11 669	11 835	12 007
Constructions	55	-	-	-	12 469	12 573	12 700	12 846	13 007	13 179
Surrent consumption in A	60		-	-	-	13 953	14 060	14 189	14 339	14 504
13.01	65	-	-	-	-	-	-	15 725	15 857	16 009
13.01	Summant aanaum	ntion in A								
40		•	13.09	13.18	13.28	13.40	13.53	13.69	13.87	14.08
40	35	13.76	13.87	13.99	14.11	14.25	14.40	14.58	14.77	14.99
45					1		1			
18.65	45	-	1		16.04					
18.65		-	_	-						
Coefficient of performance (C.O.P.) C.O.P. C.O.P.		-	-	-						
fes - - - - - 22.68 22.80 22.93 flass flow in kg/h 30 311 381 461 552 658 778 916 1072 1 248 35 308 378 459 551 657 779 917 1074 1 251 40 - 375 455 548 655 777 915 1073 1 251 45 - - 451 544 650 772 912 1070 1 248 50 - - - 538 644 766 905 1063 1 242 55 - - - 530 636 758 897 1055 1 233 60 - - - - 626 747 886 1 043 1 221 65 - - - - - - 872 1 029	-	-	-	-	-					
30 311 381 461 552 658 778 916 1 072 1 248 35 308 378 459 551 657 779 917 1 074 1 251 40 - 375 455 548 655 777 915 1 073 1 251 45 - - 451 544 650 772 912 1 070 1 248 50 - - - 538 644 766 905 1 063 1 242 55 - - - 530 636 758 897 1 055 1 233 60 - - - - 626 747 886 1 043 1 221 65 - - - - - 872 1 029 1 206 Scoefficient of performance (C.O.P.) 30 2.22 2.69 3.24 3.87 4.58 5.38	65	-	-	-	-	-	-	22.68	22.80	22.93
30 311 381 461 552 658 778 916 1 072 1 248 35 308 378 459 551 657 779 917 1 074 1 251 40 - 375 455 548 655 777 915 1 073 1 251 45 - - 451 544 650 772 912 1 070 1 248 50 - - - 538 644 766 905 1 063 1 242 55 - - - 530 636 758 897 1 055 1 233 60 - - - - 626 747 886 1 043 1 221 65 - - - - - 872 1 029 1 206 Scoefficient of performance (C.O.P.) 30 2.22 2.69 3.24 3.87 4.58 5.38										
35 308 378 459 551 657 779 917 1 074 1 251 40 - 375 455 548 655 777 915 1 073 1 251 45 - - 451 544 650 772 912 1 070 1 248 50 - - - 538 644 766 905 1 063 1 242 55 - - - 530 636 758 897 1 055 1 233 60 - - - - 626 747 886 1 043 1 221 65 - - - - - - 872 1 029 1 206 Soefficient of performance (C.O.P.) 30 2.22 2.69 3.24 3.87 4.58 5.38 6.29 7.31 8.46 35 1.90 2.33 2.82 3.38 4.01 <td>-</td> <td></td> <td>T</td> <td>1</td> <td></td> <td>T</td> <td></td> <td>1</td> <td></td> <td></td>	-		T	1		T		1		
40 - 375 455 548 655 777 915 1073 1251 45 - - 451 544 650 772 912 1070 1248 50 - - - 538 644 766 905 1063 1242 55 - - - 530 636 758 897 1055 1233 60 - - - - 626 747 886 1043 1221 65 - - - - - 872 1029 1206 Coefficient of performance (C.O.P.) 30 2.22 2.69 3.24 3.87 4.58 5.38 6.29 7.31 8.46 35 1.90 2.33 2.82 3.38 4.01 4.72 5.52 6.41 7.42 40 - 2.00 2.43 2.92 3.48 4.11										
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65 2.09 2.47 2.91	60	-	-	-	-			2.53	2.98	3.49
	65	-	-	-	-	-	-	2.09	2.47	2.91
lominal performance at to = 7.2 °C, tc = 54.4 °C Pressure switch settings	voilillai periorn	iailce at to = 7.	2 0, 10 = 54.4 °C	7 10/	_		Pressure switch		40.4	

Cooling capacity	42 277	W
Power input	12 766	W
Current consumption	19.01	Α
Mass flow	965	kg/h
C.O.P.	3.31	

to: Evaporating temperature at dew point

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

Maximum HP switch setting	46.1	bar(g)
Minimum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

Sound power data

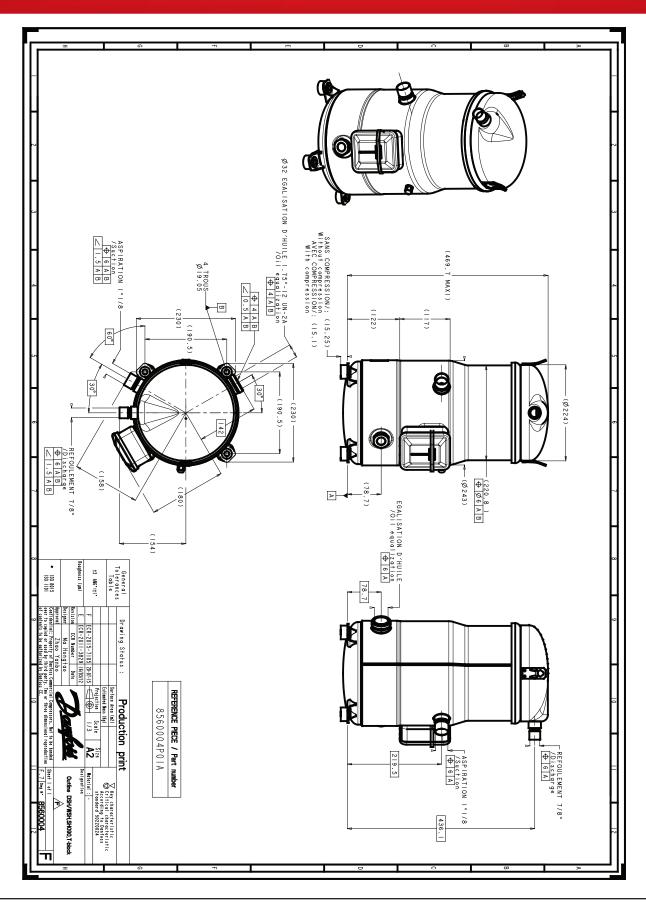
Sound power level	76	dB(A)	
With accoustic hood	70	dB(A)	

Tolerance according EN12900

tc: Condensing temperature at dew point



page drawings



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