ENGINEERING TOMORROW



Datasheets

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





Datasheet, technical data

Danfoss scroll compressor, SZ084-4

General Characteristics

Model number (on compressor nameplate)		SZ084S4VC	
Code number for Singlepack*		SZ084-4VI	
Code number for Industrial pack**		SZ084-4VM	
Drawing number		8552036b	
Suction and discharge connections		Brazed	
Suction connection		1-1/8 " ODF	
Discharge connection		3/4 " ODF	
Oil sight glass		Threaded	
Oil equalisation connection		3/8" flare SAE	
Oil drain connection		None	
LP gauge port		Schrader	
IPR valve		None	
Swept volume	114,5 cm3/rev		
Displacement @ Nominal speed	19.9 m3/h @ 2900 rpm - 24.1 m3/h @ 3500 rpm		
Net weight	64 kg		
Oil charge	3,25 litre, POE - 160SZ		
Maximum system test pressure Low Side / High side	25 bar(g) / 32 bar(g)		
Maximum differential test pressure	24 bar		
Maximum number of starts per hour	12		
Refrigerant charge limit	8,5 kg		
Approved refrigerants	R407C, R134a,	R404A, R507A	

Electrical Characteristics

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-440 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25℃	1.74 Ω
Rated Load Amps (RLA)	12.1 A
Maximum Continuous Current (MCC)	17 A
Locked Rotor Amps (LRA)	86 A
Motor protection	Internal overload protector

Recommended Installation torques

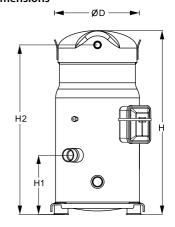
necommenaca mstanation torques	
Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Mounting bolts	21 Nm

Parts shipped with compressor

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

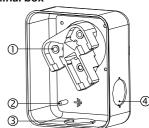
Approvals: CE certified, UL certified (file SA6873), -

Dimensions



D=254 mm H=508 mm H1=141,9 mm H2=464,5 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")

^{*}Singlepack: Compressor in cardboard box

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



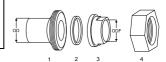
Datasheet, accessories and spare parts

Danfoss scroll compressor, SZ084-4

Rotolock accessories, suction side	Code no.
Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge 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

Solder sleeve adapter set



Rotolock accessories, sets	Code no.
Solder sleeve adapter set (1.3/4" Petalask, 1.1/9" ODE) (1.1/4" Petalask, 3/4" ODE)	7765005

Solder sleeve adapter set (1-3/4" Rotolock, 1-1/8" ODF), (1-1/4" Rotolock, 3/4" ODF)	7765005
Angle adapter set, C02 (1-3/4"~1-1/8"), C04 (1-1/4"~3/4")	7703014
Valve set, V02 (1-3/4"~1-1/8"), V04 (1-1/4"~3/4")	7703009
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

1: Rotolock adapter (Suc & Dis)

2: Gasket (Suc & Dis)

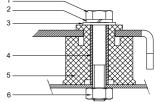
3: Solder sleeve (Suc & Dis)

4: Rotolock nut (Suc & Dis)

Oil / lubricants	Code no.
POE lubricant, 160SZ, 1 litre can	7754023
DOE Juhricant 16007 2 5 litro can	12070571

Mounting kit

Code no.
120Z0361
120Z0380
120Z0381
120Z0382
120Z0466
7773107
7773117
120Z0039



Miscellaneous accessories

Miscellaneous accessories	Code no.
Electronic soft start kit, MCI 15 C	7705006
Acoustic hood for scroll compressor S084-S090-S100	7755011
Bottom insulation for scroll compressor	120Z0356
Discharge thermostat kit	7750009

1: Bolt (4x) 2: Lock washer (4x) 3: Flat washer (4x) 4: Sleeve (4x)

5: Grommet (4x) 6: Nut (4x)

Spare parts	Code no.
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	8156138
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (white teflon)	8156129
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. SZ084-4

Performance data at 50 Hz, EN 12900 rating conditions

R407C

Cond. temp. in				Evapora	ating temperature	in °C (to)			
°C (tc)	-20	-15	-10	-5	0	5	10	15	
•		•	•	•	•	•			
Cooling capacit	y in W								
30	7 168	9 179	11 606	14 497	17 898	21 858	26 423	31 641	-
35	6 686	8 633	10 975	13 759	17 031	20 840	25 231	30 253	-
40	6 193	8 062	10 304	12 966	16 095	19 738	23 942	28 753	-
45	-	7 465	9 593	12 120	15 091	18 554	22 554	27 140	-
50	-	-	8 843	11 219	14 018	17 285	21 068	25 413	-
55	-	-	-	10 264	12 876	15 933	19 483	23 571	-
60	-	-	-	-	11 664	14 496	17 797	21 613	-
65	-	-	-	-	10 381	12 973	16 010	19 537	-
Power input in \	N			_					
30	3 507	3 549	3 582	3 604	3 610	3 599	3 567	3 511	-
35	3 898	3 942	3 979	4 004	4 015	4 010	3 984	3 936	-
40	4 336	4 383	4 423	4 453	4 470	4 471	4 453	4 413	-
45	-	4 878	4 922	4 957	4 980	4 988	4 977	4 946	-
50	-	-	5 480	5 521	5 551	5 566	5 564	5 542	-
55	-	-	-	6 151	6 187	6 211	6 218	6 205	-
60	-	-	-	-	6 896	6 928	6 944	6 942	-
65	-	-	-	-	7 681	7 722	7 749	7 758	-
		•	•	•	•	•			
Current consum	nption in A								
30	8.23	8.28	8.32	8.33	8.32	8.28	8.19	8.07	-
35	8.60	8.65	8.70	8.72	8.72	8.69	8.62	8.51	-
40	9.04	9.10	9.15	9.19	9.20	9.18	9.12	9.03	-
45		9.64	9.70	9.74	9.76	9.76	9.72	9.65	_
50	-	-	10.34	10.40	10.44	10.45	10.43	10.37	_
55	-	_	-	11.17	11.22	11.25	11.25	11.21	-
60	_	-	_	-	12.13	12.18	12.20	12.19	-
65	_	_	_	_	13.18	13.25	13.29	13.30	_
		1	1	ı	1	1		1	
Mass flow in kg	/h								
30	150	188	233	286	347	417	497	588	-
35	146	185	231	284	346	416	497	588	-
40	143	182	228	282	344	414	495	586	_
45	-	179	225	278	340	411	491	582	_
50	-	-	220	274	336	406	486	577	_
55		-	-	268	330	400	480	570	
60	-	-	-	-	322	392	471	560	
65		_	_	_	313	382	460	549	_
		1	1	1	1 010	1 332	.50	1 010	
Coefficient of pe	erformance (C.C).P.)							
30	2.04	2.59	3.24	4.02	4.96	6.07	7.41	9.01	_
35	1.72	2.19	2.76	3.44	4.24	5.20	6.33	7.69	
40	1.72	1.84	2.70	2.91	3.60	4.42	5.38	6.52	
45	-	1.53	1.95	2.45	3.03	3.72	4.53	5.49	-
50	-	-	1.95	2.45	2.53	3.12	3.79	4.59	-
						+		1	
55 60	-	-	-	1.67	2.08	2.57	3.13	3.80	-
60	-	-	-	-	1.69	2.09	2.56	3.11	-
65	-	-	-	-	1.35	1.68	2.07	2.52	-

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

		•••		
Cooling capacity		17 285	W	
Power input		5 566	W	
Current consumpt	tion	10.45	Α	
Mass flow		406	kg/h	
C.O.P.		3.11		

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	29.5	bar(g)
	Minimum LP switch setting	0.5	bar(g)
L	LP pump down setting	1	bar(g)

Sound power data

Sound power level	71	dB(A)
With accoustic hood	63	dB(A)

All performance data +/- 5%



Danfoss scroll compressor. SZ084-4

Performance data at 50 Hz, ARI rating conditions

R407C

Cond. temp. in	emp. in Evaporating temperature in °C (to)								
°C (tc)	-20	-15	-10	-5	0	5	10	15	
Cooling capacit	by in W								
30	7 688	9 833	12 419	15 496	19 113	23 318	28 161	33 691	_
35	7 206	9 292	11 798	14 773	18 267	22 327	27 004	32 347	
								30 888	-
40	6 712	8 725	11 136	13 995	17 350	21 252	25 748		
45	-	8 130	10 432	13 160	16 363	20 090	24 391	29 314	-
50		-	9 687	12 269	15 305	18 844	22 934	27 625 25 821	-
55	-	-	-	11 321	14 175	17 510	21 376		-
60	-	-	-	-	12 973	16 090	19 717 17 956	23 901	-
65	-	-	-	-	11 698	14 583	17 956	21 864	-
Power input in \	w								
30	3 507	3 549	3 582	3 604	3 610	3 599	3 567	3 511	ı
35	3 898	3 942	3 979	4 004	4 015	4 010	3 984	3 936	-
40	4 336	4 383	4 423	4 453	4 470	4 471	4 453	4 413	ı
45	-	4 878	4 922	4 957	4 980	4 988	4 977	4 946	-
50	-	-	5 480	5 521	5 551	5 566	5 564	5 542	-
55	-	-	-	6 151	6 187	6 211	6 218	6 205	-
60	-	-	-	-	6 896	6 928	6 944	6 942	-
65	-	-	-	-	7 681	7 722	7 749	7 758	-
Current consun	antion in A								
30	8.23	8.28	8.32	8.33	8.32	8.28	8.19	8.07	_
35	8.60	8.65	8.70	8.72	8.72	8.69	8.62	8.51	_
40	9.04	9.10	9.15	9.19	9.20	9.18	9.12	9.03	_
45	-	9.64	9.70	9.74	9.76	9.76	9.72	9.65	_
50	_	-	10.34	10.40	10.44	10.45	10.43	10.37	_
55	-	-	-	11.17	11.22	11.25	11.25	11.21	_
60	-	-	-	-	12.13	12.18	12.20	12.19	_
65	-	-	-		13.18	13.25	13.29	13.30	-
00					10.10	10.20	10.20	10.00	
Mass flow in kg	/h								
30	149	187	232	285	345	415	494	584	1
35	146	184	230	283	344	414	494	584	-
40	142	181	227	280	342	412	492	582	ı
45	-	178	224	277	338	409	489	579	-
50	-	-	219	272	334	404	484	574	-
55	-	-	-	267	328	397	477	566	-
60	-	-	-	-	320	389	468	557	-
65	-	-	-	-	311	379	457	545	-
Coefficient of p	erformance (C.C).P.)							
30	2.19	2.77	3.47	4.30	5.29	6.48	7.90	9.60	-
35	1.85	2.36	2.97	3.69	4.55	5.57	6.78	8.22	1
40	1.55	1.99	2.52	3.14	3.88	4.75	5.78	7.00	-
45	-	1.67	2.12	2.65	3.29	4.03	4.90	5.93	-
50	-	-	1.77	2.22	2.76	3.39	4.12	4.99	-
55	-	-	-	1.84	2.29	2.82	3.44	4.16	-
60	-	-	-	-	1.88	2.32	2.84	3.44	-

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

monimal portormanos acto	0,	U-1T U	
Cooling capacity		19 319	W
Power input		6 134	W
Current consumption		11.15	Α
Mass flow		432	kg/h
C.O.P.		3.15	

to: Evaporating temperature at dew point

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

Pressure switch settings

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	71	dB(A)
With accoustic hood	63	dB(A)

All performance data +/- 5%

tc: Condensing temperature at dew point



Danfoss scroll compressor. SZ084-4

Performance data at 50 Hz, EN 12900 rating conditions

R134a

Cooling capacity in W South Sout	Cond. temp. in	Cond. temp. in Evaporating temperature in °C (to)								
38	°C (tc)	-15	-10	-5	0	5	10	15		
SS										
40			7 202	0.350	11 663	14 222	17.260	20,922		
45			+	ł						
SO										
55										
60		4 488								-
Power input in W		=								-
Power Input in W		-	-	6 468	1	†			-	-
Power input in W 35										
38	70	-	-	-	6 685	8 470	10 544	12 937		-
40	Power input in V	v								
45	35	2 775	2 786	2 787	2 775	2 749	2 706	2 644	-	-
45									-	-
50									-	-
SS									_	-
60									-	-
65				†	+	ł	+			
Current consumption in A 35 7.14 7.20 7.25 7.26 7.25 7.19 7.08 - - 40 7.42 7.49 7.53 7.55 7.54 7.48 7.38 - - 40 7.42 7.49 7.53 7.55 7.54 7.48 7.38 - - 50 8.17 8.24 8.29 8.31 8.30 8.25 8.16 - - 55 - 8.72 8.77 8.80 8.79 8.79 8.66 - - 66 - - 9.34 9.36 9.36 9.32 9.23 - - 65 - - - 10.01 10.01 9.97 9.89 - - - 65 - - - 10.75 10.76 10.72 10.64 - - - - - - - - - - -<										
Current consumption in A 35		_	_	-					_	-
35			1							
40	Current consum	ption in A								
45	35	7.14	7.20	7.25	7.26	7.25	7.19	7.08	-	-
50 8.17 8.24 8.29 8.31 8.30 8.25 8.16 - - 55 - 8.72 8.77 8.80 8.79 8.75 8.66 - - 60 - - 9.34 9.36 9.36 9.32 9.23 - - 65 - - - 10.01 10.01 9.97 9.89 - - 70 - - - 10.75 10.76 10.72 10.64 - - Mass flow in kg/h *** 40 135 173 215 263 318 379 447 - - 45 132 170 212 261 316 377 445 - - 50 128 166 209 258 313 374 442 - - - 50 128 166 209 <	40	7.42	7.49	7.53	7.55	7.54	7.48	7.38	-	-
55 - 8.72 8.77 8.80 8.79 8.75 8.66 - - - 60 - - 9.34 9.36 9.36 9.32 9.23 -	45	7.76	7.83	7.88	7.90	7.89	7.83	7.74	-	-
60 9.34 9.36 9.36 9.32 9.23 65	50	8.17	8.24	8.29	8.31	8.30	8.25	8.16	-	-
60 9.34 9.36 9.36 9.32 9.23 65	55	_	8.72	8.77	8.80	8.79	8.75	8.66	_	-
Mass flow in kg/h 35	60	-	-	9.34	9.36	9.36	9.32	9.23	-	-
Mass flow in kg/h 35	65	-	-	-	10.01	10.01	9.97	9.89	_	-
35		-	-	-					-	-
35	•		•		•		•			
40 135 173 215 263 318 379 447 - - 45 132 170 212 261 316 377 445 - - 50 128 166 209 258 313 374 442 - - 55 - 162 205 254 309 370 438 - - 60 - - 200 249 304 365 432 - - 65 - - - 243 298 358 426 - - 70 - - - 237 291 351 418 - - Coefficient of performance (C.O.P.) 35 2.05 2.65 3.36 4.20 5.21 6.42 7.88 - - 40 1.72 2.24 2.85 3.58 4.45 5.47 6.71 - - 45 1.43 1.88 2.40 3.02 3.7	Mass flow in kg/	h								
45 132 170 212 261 316 377 445 - - 50 128 166 209 258 313 374 442 - - 55 - 162 205 254 309 370 438 - - 60 - - 200 249 304 365 432 - - 65 - - - 243 298 358 426 - - 70 - - - 237 291 351 418 - - Coefficient of performance (C.O.P.) 35 2.05 2.65 3.36 4.20 5.21 6.42 7.88 - - 40 1.72 2.24 2.85 3.58 4.45 5.47 6.71 - - 45 1.43 1.88 2.40 3.02 3.76 4.63 <td< td=""><td>35</td><td>138</td><td>175</td><td>217</td><td>265</td><td>319</td><td>380</td><td>448</td><td>-</td><td>-</td></td<>	35	138	175	217	265	319	380	448	-	-
50 128 166 209 258 313 374 442 - - 55 - 162 205 254 309 370 438 - - 60 - - 200 249 304 365 432 - - 65 - - - 243 298 358 426 - - 70 - - - 237 291 351 418 - - 70 - - - 237 291 351 418 - - 65 - - - 237 291 351 418 - - 50 1.72 2.65 3.36 4.20 5.21 6.42 7.88 - - - 40 1.72 2.24 2.85 3.58 4.45 5.47 6.71 - - - <t< td=""><td>40</td><td>135</td><td>173</td><td>215</td><td>263</td><td>318</td><td>379</td><td>447</td><td>-</td><td>-</td></t<>	40	135	173	215	263	318	379	447	-	-
55 - 162 205 254 309 370 438 - - 60 - - 200 249 304 365 432 - - 65 - - - 243 298 358 426 - - 70 - - - 237 291 351 418 - - Coefficient of performance (C.O.P.) 35 2.05 2.65 3.36 4.20 5.21 6.42 7.88 - - 40 1.72 2.24 2.85 3.58 4.45 5.47 6.71 - - 45 1.43 1.88 2.40 3.02 3.76 4.63 5.67 - - 50 1.17 1.55 2.00 2.53 3.15 3.88 4.76 - - 55 - 1.27 1.65 2.09 2.62 3.23	45	132	170	212	261	316	377	445	-	-
60 - - 200 249 304 365 432 - - 65 - - - 243 298 358 426 - - 70 - - - 237 291 351 418 - - Coefficient of performance (C.O.P.) 35 2.05 2.65 3.36 4.20 5.21 6.42 7.88 - - 40 1.72 2.24 2.85 3.58 4.45 5.47 6.71 - - 45 1.43 1.88 2.40 3.02 3.76 4.63 5.67 - - 50 1.17 1.55 2.00 2.53 3.15 3.88 4.76 - - 55 - 1.27 1.65 2.09 2.62 3.23 3.96 - - 60 - - 1.34 1.72 2.15 2.66 <td>50</td> <td>128</td> <td>166</td> <td>209</td> <td>258</td> <td>313</td> <td>374</td> <td>442</td> <td>-</td> <td>-</td>	50	128	166	209	258	313	374	442	-	-
65 - - - 243 298 358 426 - - 70 - - - 237 291 351 418 - - Coefficient of performance (C.O.P.) 35 2.05 2.65 3.36 4.20 5.21 6.42 7.88 - - 40 1.72 2.24 2.85 3.58 4.45 5.47 6.71 - - 45 1.43 1.88 2.40 3.02 3.76 4.63 5.67 - - 50 1.17 1.55 2.00 2.53 3.15 3.88 4.76 - - 55 - 1.27 1.65 2.09 2.62 3.23 3.96 - - 60 - - 1.34 1.72 2.15 2.66 3.27 - - 65 - - - 1.39 1.75 2.18<	55	-	162	205	254	309	370	438	-	-
70 - - 237 291 351 418 - - Coefficient of performance (C.O.P.) 35 2.05 2.65 3.36 4.20 5.21 6.42 7.88 - - - 40 1.72 2.24 2.85 3.58 4.45 5.47 6.71 - - 45 1.43 1.88 2.40 3.02 3.76 4.63 5.67 - - 50 1.17 1.55 2.00 2.53 3.15 3.88 4.76 - - 55 - 1.27 1.65 2.09 2.62 3.23 3.96 - - 60 - - 1.34 1.72 2.15 2.66 3.27 - - 65 - - - 1.39 1.75 2.18 2.67 - - 70 - - - 1.11 1.41 1	60	-	-	200	249	304	365	432	-	-
Coefficient of performance (C.O.P.) 35 2.05 2.65 3.36 4.20 5.21 6.42 7.88 - - - 40 1.72 2.24 2.85 3.58 4.45 5.47 6.71 - - 45 1.43 1.88 2.40 3.02 3.76 4.63 5.67 - - 50 1.17 1.55 2.00 2.53 3.15 3.88 4.76 - - 55 - 1.27 1.65 2.09 2.62 3.23 3.96 - - 60 - - 1.34 1.72 2.15 2.66 3.27 - - 65 - - - 1.39 1.75 2.18 2.67 - - 70 - - - 1.11 1.41 1.76 2.17 - -	65	-	-	-	243	298	358	426	-	-
35 2.05 2.65 3.36 4.20 5.21 6.42 7.88 - - - 40 1.72 2.24 2.85 3.58 4.45 5.47 6.71 - - 45 1.43 1.88 2.40 3.02 3.76 4.63 5.67 - - 50 1.17 1.55 2.00 2.53 3.15 3.88 4.76 - - 55 - 1.27 1.65 2.09 2.62 3.23 3.96 - - 60 - - 1.34 1.72 2.15 2.66 3.27 - - 65 - - - 1.39 1.75 2.18 2.67 - - 70 - - 1.11 1.41 1.76 2.17 - -	70	-	-	-	237	291	351	418	_	-
35 2.05 2.65 3.36 4.20 5.21 6.42 7.88 - - - 40 1.72 2.24 2.85 3.58 4.45 5.47 6.71 - - 45 1.43 1.88 2.40 3.02 3.76 4.63 5.67 - - 50 1.17 1.55 2.00 2.53 3.15 3.88 4.76 - - 55 - 1.27 1.65 2.09 2.62 3.23 3.96 - - 60 - - 1.34 1.72 2.15 2.66 3.27 - - 65 - - - 1.39 1.75 2.18 2.67 - - 70 - - 1.11 1.41 1.76 2.17 - -	Coefficient of ne	erformance (C. (D.P.)							
40 1.72 2.24 2.85 3.58 4.45 5.47 6.71 -	- 1	,		3.36	4.20	5.21	6.42	7.88	_	-
45 1.43 1.88 2.40 3.02 3.76 4.63 5.67 - - 50 1.17 1.55 2.00 2.53 3.15 3.88 4.76 - - 55 - 1.27 1.65 2.09 2.62 3.23 3.96 - - 60 - - 1.34 1.72 2.15 2.66 3.27 - - 65 - - - 1.39 1.75 2.18 2.67 - - 70 - - - 1.11 1.41 1.76 2.17 - -			•							
50 1.17 1.55 2.00 2.53 3.15 3.88 4.76 - - 55 - 1.27 1.65 2.09 2.62 3.23 3.96 - - 60 - - 1.34 1.72 2.15 2.66 3.27 - - 65 - - - 1.39 1.75 2.18 2.67 - - 70 - - - 1.11 1.41 1.76 2.17 - -			•							
55 - 1.27 1.65 2.09 2.62 3.23 3.96 - - 60 - - 1.34 1.72 2.15 2.66 3.27 - - 65 - - - 1.39 1.75 2.18 2.67 - - 70 - - - 1.11 1.41 1.76 2.17 - -										
60 - - 1.34 1.72 2.15 2.66 3.27 - - 65 - - - 1.39 1.75 2.18 2.67 - - 70 - - - 1.11 1.41 1.76 2.17 - -										
65 - - 1.39 1.75 2.18 2.67 - - 70 - - - 1.11 1.41 1.76 2.17 - -										
70 1.11 1.41 1.76 2.17	•			1						
			+							
Newsign and response state = 5 °C to = 50 °C			1	1	1	1	1 0			·
Nominal performance at to = 5 °C, tc = 50 °C	Nominal perform	nance at to = 5	°C, tc = 50 °C				Pressure switch	settings		

	•• •	
Cooling capacity	12 053	W
Power input	3 826	W
Current consumption	8.30	Α
Mass flow	313	kg/h
C.O.P.	3.15	

to: Evaporating temperature at dew point

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

Maxi	mum HP switch setting	20.5	bar(g)
Minir	num LP switch setting	0.5	bar(g)
LP p	ump down setting	0.5	bar(g)

Sound power data

Sound p	ower level	0	dB(A)	
With acc	coustic hood	0	dB(A)	

All performance data +/- 5%

tc: Condensing temperature at dew point



Danfoss scroll compressor. SZ084-4

Performance data at 50 Hz, ARI rating conditions

R134a

Cond. temp. in				Evapora	ating temperature	in °C (to)			
°C (tc)	-15	-10	-5	0	5	10	15		
		•							
Cooling capaci	ty in W								
35	6 175	7 982	10 103	12 570	15 414	18 666	22 357	-	-
40	5 781	7 532	9 584	11 969	14 717	17 860	21 429	-	-
45	5 373	7 059	9 034	11 328	13 973	16 999	20 437	-	-
50	4 953	6 567	8 457	10 652	13 184	16 084	19 384	-	-
55	-	6 058	7 853	9 941	12 353	15 120	18 273	-	-
60	-	-	7 227	9 199	11 482	14 106	17 104	-	-
65	-	-	-	8 427	10 573	13 047	15 882	-	-
70	-	-	-	7 629	9 629	11 945	14 607	-	-
Power input in	w								
35	2 775	2 786	2 787	2 775	2 749	2 706	2 644	_	_
40	3 080	3 092	3 094	3 085	3 062	3 022	2 963	<u> </u>	_
45	3 428	3 442	3 447	3 440	3 419	3 383	3 327		_
50	3 825	3 840	3 847	3 843	3 826	3 793	3 741		_
55	3 625	4 291	4 301	4 300	4 286	4 256	4 209	-	-
60	-	- 4 291	4 811	4 813	4 803	4 777	4 734	-	_
65	-	-	-	5 388	5 381	5 359	5 320	-	_
70	_	_	-	6 027	6 024	6 007	5 973		_
70				0 027	0 024	0 007	3 37 3	_	
Current consun	nption in A								
35	7.14	7.20	7.25	7.26	7.25	7.19	7.08	-	_
40	7.42	7.49	7.53	7.55	7.54	7.48	7.38	-	_
45	7.76	7.83	7.88	7.90	7.89	7.83	7.74	-	-
50	8.17	8.24	8.29	8.31	8.30	8.25	8.16	-	_
55	-	8.72	8.77	8.80	8.79	8.75	8.66	-	-
60	-	-	9.34	9.36	9.36	9.32	9.23	-	_
65	_	_	-	10.01	10.01	9.97	9.89	-	_
70	-	-	-	10.75	10.76	10.72	10.64	-	_
-	I.	I.	- L			-			.1
Mass flow in kg	ı/h								
35	138	174	216	264	318	378	446	-	-
40	135	172	214	262	316	377	445	-	-
45	131	169	211	260	314	375	443	-	-
50	127	165	208	256	311	372	440	-	-
55	-	161	204	253	307	368	435	-	-
60	-	-	199	248	302	363	430	-	-
65	-	-	-	242	296	356	423	-	-
70	-	_		235	289	349	416	-	
	erformance (C.C	1	2.02	4.50	E 04	6.00	0.40		1
35		2.87	3.63	4.53	5.61	6.90	8.46	-	-
40	1.88	2.44	3.10	3.88	4.81	5.91	7.23	-	-
45	1.57	2.05	2.62	3.29	4.09	5.03	6.14	-	-
50	1.30	1.71	2.20	2.77	3.45	4.24	5.18	-	-
55	-	1.41	1.83	2.31	2.88	3.55	4.34	-	-
60	-	-	1.50	1.91	2.39	2.95	3.61	-	-
65	-	-	-	1.56	1.96	2.43	2.99	-	-
70	_	-	-	1.27	1.60	1.99	2.45	-	-

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

romma portormanos acto 1:2 0, to	0 04.4 0	
Cooling capacity	13 633	W
Power input	4 217	W
Current consumption	8.71	Α
Mass flow	333	kg/h
C.O.P.	3.23	

to: Evaporating temperature at dew point

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

Maxi	mum HP switch setting	20.5	bar(g)
Minir	num LP switch setting	0.5	bar(g)
LP p	ump down setting	0.5	bar(g)

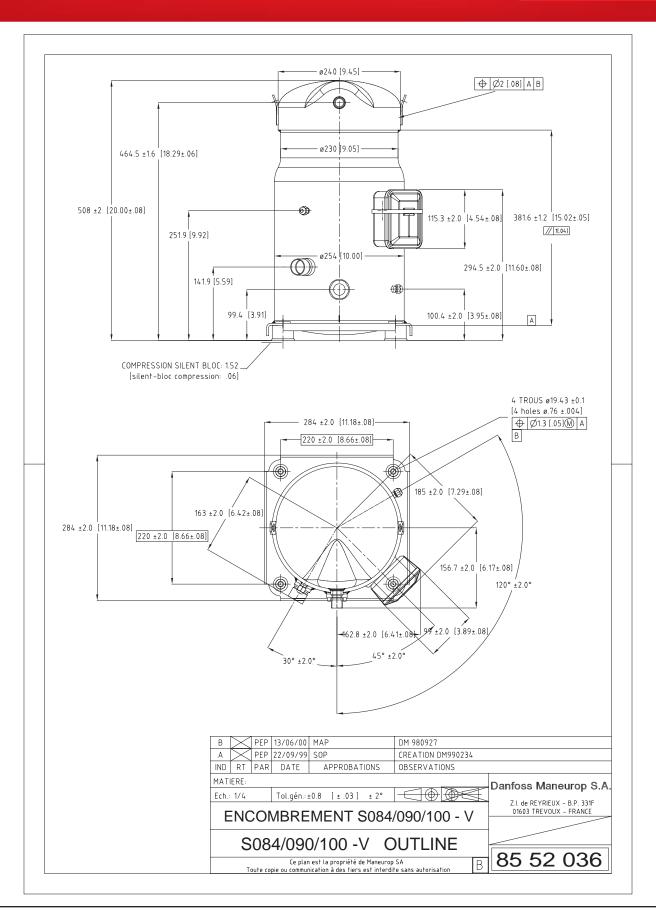
Sound power data

Sound power level	0	dB(A)	
With accoustic hood	0 1	dB(A)	

All performance data +/- 5%

tc: Condensing temperature at dew point





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