

Datasheets

Performer® scroll compressors SM / SY / SZ / SH / WSH





Datasheet, technical data

General Characteristics

Model number (on compressor nameplate)	SM185S4RC	SM185S4CC	
Code number for Singlepack*	SM185-4RI	SM185-4CAI	
Code number for Industrial pack**	SM185-4RM	SM185-4CAM	
Drawing number	8551119b	8551056c	
Suction and discharge connections	Rotolock	Brazed	
Suction connection	2-1/4 " Rotolock	1-5/8 " ODF	
Discharge connection	1-3/4 " Rotolock	1-1/8 " ODF	
Suction connection with supplied sleeve	1-3/8 " ODF		
Discharge connection with supplied sleeve	7/8 " ODF		
Oil sight glass	Threaded	Threaded	
Oil equalisation connection	3/8" flare SAE	3/8" flare SAE	
Oil drain connection	1/4" flare	1/4" flare	
LP gauge port	Schrader	Schrader	
IPR valve	None	None	
Swept volume	249,9 cm3/rev		
Displacement @ Nominal speed	43.5 m3/h @ 2900 rpm - 52.5 m3/h @ 3500 rpm		
Net weight	100 kg		
Oil charge	6,2 litre, Mineral - 160P		
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	1	12	
Refrigerant charge limit	13,	13,5 kg	
Approved refrigerants	R22, R417A-160SZ		

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°C	0.77 #
Maximum Must Trip current (MMT)	35 A
Locked Rotor Amps (LRA)	175 A
Motor protection	Internal thermostat, ext. overload protector needed

Recommended Installation torques

Suction Rotolock nut or valve	130 Nm
Discharge Rotolock nut or valve	110 Nm
Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Terminal box cover screws	2,3 Nm
Mounting bolts	21 Nm

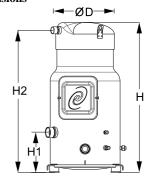
Parts shipped with compressor

Tures simpled with compressor	
Mounting kit with grommets, bolts, nuts, sleeves and washers	l
Initial oil charge	
Installation instructions	

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

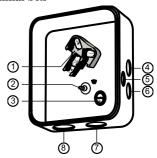
*Singlepack: Compressor in cardboard box

Dimensions



D=317 mm H=678 mm H1=180 mm H2=643 mm

Terminal box



IP54 (with cable gland)

- 1: Power connection, 3 x 4.8 mm (3/16")
- 2: Earth M5
- 3: Thermostat connector
- 4: Knock-out Ø 22 mm (7/8") for 1/2" conduit
- 5: Knock-out Ø 16.5 mm (0.65")
- 6: Knock-out Ø 20.5 mm (0.81")
- 7: Double knock-out Ø 32.1 mm (1.26") & Ø 25.4 mm (1")
- 8: Double knock-out Ø 44 mm (1-3/4") for 1-1/4" conduit & Ø 34 mm (1-3/8") for 1" conduit



^{**}Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)



Datasheet, accessories and spare parts

Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)

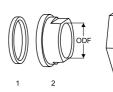
Gasket, 1-3/4"

Performer scroll compressor, SM185-4

Rotolock accessories, suction side	Code no.
Solder sleeve, P08 (2-1/4" Rotolock, 1-3/8" ODF)	8153005
Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006
Rotolock valve, V08 (2-1/4" Rotolock, 1-3/8" ODF)	8168025
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026
Gasket, 2-1/4"	8156133

Rotolock accessories, discharge side Code no. Solder sleeve, P07 (1-3/4" Rotolock, 7/8" ODF) 8153013 8153004 Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF) Angle adapter, C07 (1-3/4" Rotolock, 7/8" ODF) 8168008 Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF) 8168005 Rotolock valve, V07 (1-3/4" Rotolock, 7/8" ODF) 8168032

Gaskets, sleeves and nuts



1: Gasket
2: Solder sleeve
3: Rotolock nut

8168028

8156132

120Z0464

Rotolock accessories, sets	Code no.

Solder sleeve adapter set, (2-1/4" Rotolock, 1-5/8" ODF), (1-3/4" Rotolock, 1"1/8 ODF)	7765028
Valve set, V08 (2-1/4"~1-3/8"), V07 (1-3/4"~7/8")	7703010
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

Solder sleeve adapter set



Oil / lubricants	Code no.
Mineral oil, 160P, 2 litre can	7754001
Mineral oil 160P 5 litre can	7754002

Crankcase heaters	Code no.
Surface sump heater + bottom insulation, 56 W, 24 V, CE mark, UL	120Z0360
Surface sump heater + bottom insulation, 56 W, 230 V, CE mark, UL	120Z0376
Surface sump heater + bottom insulation, 56 W, 400 V, CE mark, UL	120Z0377
Surface sump heater + bottom insulation, 56 W, 460 V, CE mark, UL	120Z0378
Belt type crankcase heater, 75 W, 230 V, CE mark, UL	7773108
Belt type crankcase heater 75 W 400 V CF mark III	7773118

1: Rotolock adapter (Suc & Dis)

2: Gasket (Suc & Dis)

3: Solder sleeve (Suc & Dis)

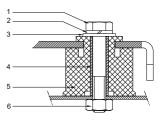
4: Rotolock nut (Suc & Dis)

Miscellaneous accessories

Belt type crankcase heater, 75 W, 460 V, CE mark, UL

Miscellaneous accessories	Code no.
Electronic soft start kit, MCI 25 C	7705007
Acoustic hood for scroll compressor S175-S185	7755007
Acoustic bottom insulation for scroll compressor	120Z0353
Discharge thermostat kit	7750009

Mounting kit



Spare parts	Code no.
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	8156138
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers, 2 rotolock nuts, 2 solder sleeves, 2 gaskets	8156147
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (white teflon)	8156129
Terminal box 186 x 198 mm, incl cover	8156139
T block connector 60 x 75 mm	8173021

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

5: Grommet (4x)

6: Nut (4x)





Performer scroll compressor. SM185-4

Performance data at 50 Hz, EN 12900 rating conditions

R22

Cond. temp. in				Evapora	ating temperature	in °C (to)			
°C (tc)	-20	-15	-10	-5	0	5	10	15	
•			•	•	•	•	•	·	
Cooling capacity		1	T	1		Т	1	1	
30	18 321	22 879	28 204	34 366	41 435	49 479	58 569	68 774	-
35	17 280	21 729	26 914	32 904	39 768	47 575	56 393	66 294	-
40	16 221	20 543	25 569	31 367	38 006	45 556	54 085	63 663	-
45	-	19 302	24 144	29 727	36 118	43 386	51 599	60 828	-
50	-	-	22 668	28 017	34 141	41 109	48 989	57 851	-
55	-	-	-	26 214	32 048	38 693	46 217	54 689	-
60	-	-	-	-	29 832	36 128	43 270	51 324	-
65	-	-	-	-	27 523	33 453	40 192	47 810	-
Power input in V	v								
30	7 964	8 050	8 133	8 212	8 284	8 347	8 399	8 437	_
35	8 819	8 906	8 991	9 071	9 145	9 211	9 265	9 306	
40	9 773	9 861	9 947	10 030	10 106	10 174	10 231	10 275	
	-	10 925		11 097			11 307		
45 50	-		11 013		11 176 12 364	11 247		11 354	
50		-	12 196	12 283	1	12 438	12 501	12 553	
55	-	-	-	13 596	13 680	13 757	13 824	13 879	-
60	-	-	-	-	15 132	15 212	15 283	15 342	-
65	-	-	-	-	16 731	16 814	16 889	16 953	-
Current consum	ntion in A								
		17.72	17.90	17 00	17.02	17.97	17.99	17.09	
30	17.62		17.80	17.88	17.93		1	17.98	-
35	18.55	18.65	18.74	18.82	18.88	18.93	18.95	18.95	-
40	19.61	19.72	19.82	19.90	19.97	20.03	20.06	20.08	-
45	-	20.94	21.05	21.14	21.22	21.29	21.33	21.36	-
50	-	-	22.45	22.55	22.64	22.72	22.78	22.82	-
55	-	-	-	24.14	24.25	24.34	24.42	24.48	-
60	-	-	-	-	26.06	26.17	26.26	26.34	-
65	-	-	-	-	28.09	28.21	28.32	28.42	-
/lass flow in kg/	h								
30	394	486	592	712	848	1 001	1 172	1 363	-
35	387	480	586	707	844	999	1 171	1 363	-
40	378	472	580	702	840	994	1 167	1 359	-
45	-	464	572	694	832	988	1 161	1 353	-
50	-	-	562	685	823	978	1 151	1 343	-
55	-	-	-	673	811	966	1 138	1 330	-
60	-	-	-	-	796	950	1 122	1 313	-
65	-	-	-	-	778	931	1 102	1 292	-
'			1	1	-	-	-		
Coefficient of pe	•	1	T	1			0.5-		
30	2.30	2.84	3.47	4.18	5.00	5.93	6.97	8.15	-
35	1.96	2.44	2.99	3.63	4.35	5.17	6.09	7.12	-
40	1.66	2.08	2.57	3.13	3.76	4.48	5.29	6.20	-
45	-	1.77	2.19	2.68	3.23	3.86	4.56	5.36	-
50	-	-	1.86	2.28	2.76	3.31	3.92	4.61	-
55	-	-	-	1.93	2.34	2.81	3.34	3.94	-
60	-	-	-	-	1.97	2.37	2.83	3.35	-
65	-	-	_	_	1.65	1.99	2.38	2.82	_

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

	•• •	
Cooling capacity	41 109	W
Power input	12 438	W
Current consumption	22.72	Α
Mass flow	978	kg/h
C.O.P.	3.31	

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	28	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	80	dB(A)
With accoustic hood	72	dB(A)

All performance data +/- 5%





Performer scroll compressor. SM185-4

Performance data at 50 Hz, ARI rating conditions

R22

Cond. temp. in Evaporating temperature in °C (to)									
°C (tc)	-20	-15	-10	-5	0	5	10	15	
Cooling capacity	v in W			•		•			
30	19 439	24 255	29 878	36 380	43 832	52 306	61 875	72 610	-
35	18 400	23 118	28 611	34 951	42 209	50 458	59 770	70 215	-
40	17 337	21 936	27 278	33 434	40 478	48 480	57 512	67 647	-
45	-	20 708	25 877	31 829	38 637	46 371	55 103	64 906	-
50	-	-	24 409	30 136	36 686	44 131	52 542	61 992	-
55	-	-	-	28 354	34 625	41 760	49 828	58 904	-
60	-	-	-	-	32 455	39 257	46 962	55 642	-
65	-	-	-	-	30 174	36 623	43 943	52 207	-
Power input in V	v								
30	7 964	8 050	8 133	8 212	8 284	8 347	8 399	8 437	-
35	8 819	8 906	8 991	9 071	9 145	9 211	9 265	9 306	-
40	9 773	9 861	9 947	10 030	10 106	10 174	10 231	10 275	-
45	-	10 925	11 013	11 097	11 176	11 247	11 307	11 354	-
50	-	-	12 196	12 283	12 364	12 438	12 501	12 553	-
55	-	-	-	13 596	13 680	13 757	13 824	13 879	-
60	-	-	-	-	15 132	15 212	15 283	15 342	-
65	-	-	-	-	16 731	16 814	16 889	16 953	-
Current consum	ention in A								
30	17.62	17.72	17.80	17.88	17.93	17.97	17.99	17.98	_
35	18.55	18.65	18.74	18.82	18.88	18.93	18.95	18.95	
40	19.61	19.72	19.82	19.90	19.97	20.03	20.06	20.08	-
45	-	20.94	21.05	21.14	21.22	21.29	21.33	21.36	-
50	-	-	22.45	22.55	22.64	22.72	22.78	22.82	-
55	-	-	-	24.14	24.25	24.34	24.42	24.48	-
60	_	-	_	_	26.06	26.17	26.26	26.34	-
65	-	-	-	-	28.09	28.21	28.32	28.42	-
Mass flow in kg/	'h								
30	392	484	589	708	843	995	1 165	1 355	
35	385	477	583	704	840	993	1 164	1 355	-
40	376	470	577	698	835	989	1 161	1 352	-
45	-	461	569	691	828	982	1 154	1 345	-
50	-	-	559	681	819	973	1 145	1 336	-
55	-	-	-	669	807	960	1 132	1 323	-
60	-	-	-	-	792	945	1 116	1 305	-
65	-	-	-	-	774	926	1 096	1 284	-
Coefficient of pe	erformance (C.C).P.)							
30	2.44	3.01	3.67	4.43	5.29	6.27	7.37	8.61	-
35	2.09	2.60	3.18	3.85	4.62	5.48	6.45	7.55	-
40	1.77	2.22	2.74	3.33	4.01	4.77	5.62	6.58	-
45	-	1.90	2.35	2.87	3.46	4.12	4.87	5.72	-
50	-	-	2.00	2.45	2.97	3.55	4.20	4.94	-
55	-	-	-	2.09	2.53	3.04	3.60	4.24	-
60	-	-	-	-	2.14	2.58	3.07	3.63	-
65	-	-	-	-	1.80	2.18	2.60	3.08	-

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

Nominal performance at to = 7.2 0, te = 04.4 0					
Cooling capacity	45 500	W			
Power input	13 622	W			
Current consumption	24.17	Α			
Mass flow	1 035	kg/h			
C.O.P.	3.34				

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Pressure switch settings

Maximum HP switch setting	28	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

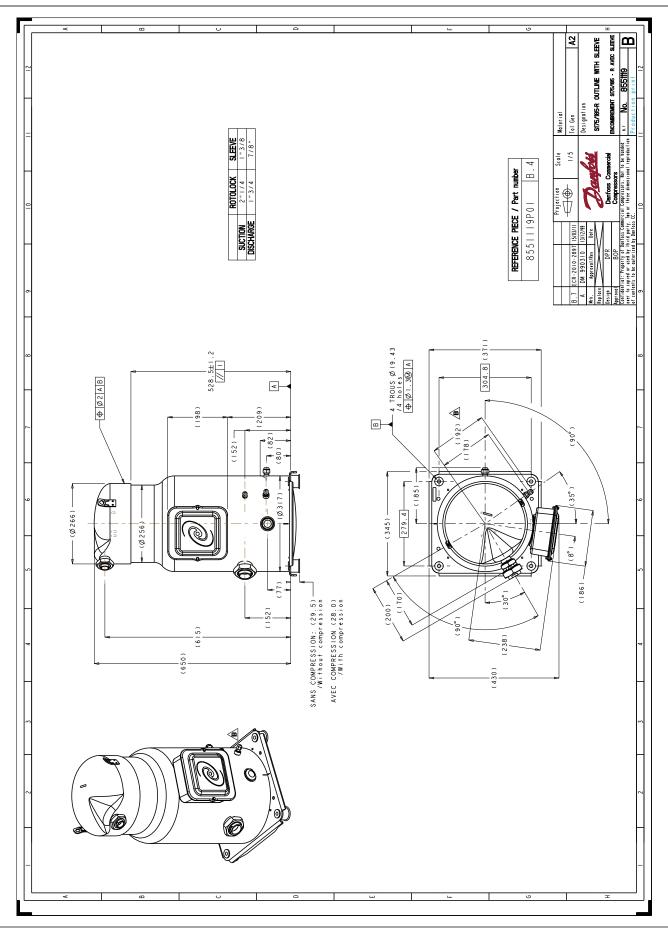
Sound power level	80	dB(A)
With accoustic hood	72	dB(A)

All performance data +/- 5%



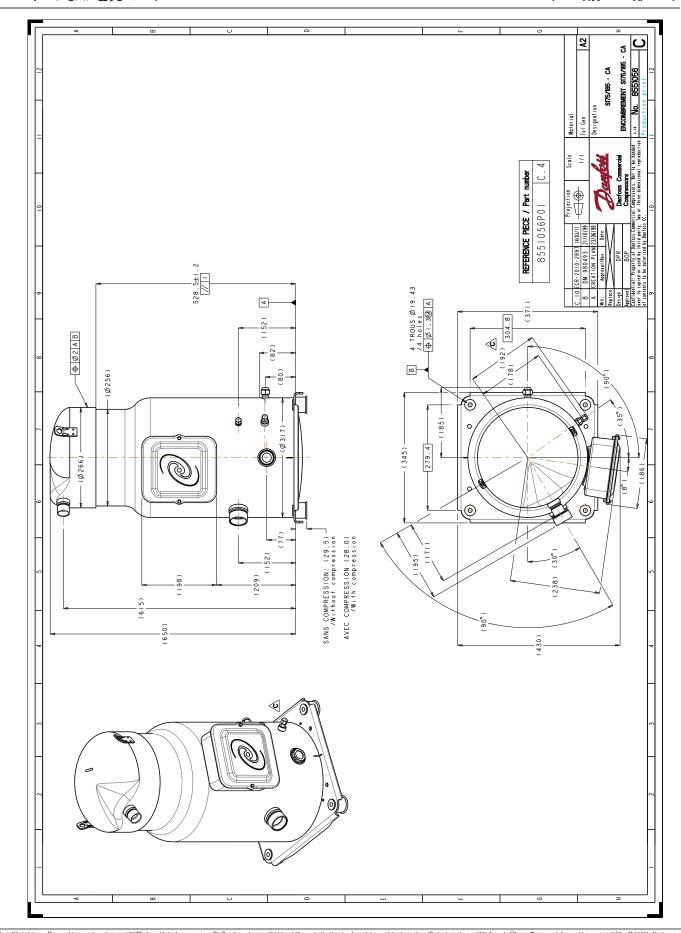


Datasheet, drawing Scroll compressor









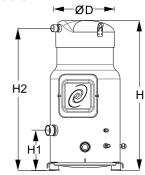


Datasheet, technical data

General Characteristics

Model number (on compressor nameplate)		SM185S4QC		
Code number for Singlepack*		SM185-4QAI		
Code number for Industrial pack**		SM185-4QAM		
Drawing number		8551065c		
Suction and discharge connections		Brazed		
Suction connection		1-5/8 " ODF		
Discharge connection		1-1/8 " ODF		
Oil sight glass		Threaded		
Oil equalisation connection		3/8" ODF		
Oil drain connection		1/4" flare		
LP gauge port		Schrader		
IPR valve		None		
Swept volume	249,9 c	m3/rev		
Displacement @ Nominal speed	43.5 m3/h @ 2900 rpm	- 52.5 m3/h @ 3500 rpm		
Net weight	100) kg		
Oil charge	6,2 litre, Mi	neral - 160P		
Maximum system test pressure Low Side / High side	25 bar(g)	25 bar(g) / 32 bar(g)		
Maximum differential test pressure	24	24 bar		
Maximum number of starts per hour	1	2		
Refrigerant charge limit	13,5	13,5 kg		
Approved refrigerants	R22, R41	R22, R417A-160SZ		

Dimensions



D=317 mm H=678 mm H1=180 mm H2=643 mm

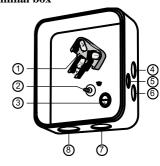
Electrical Characteristics

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°C	0.77 #
Maximum Must Trip current (MMT)	35 A
Locked Rotor Amps (LRA)	175 A
Motor protection	Internal thermostat, ext. overload protector needed

Recommended Installation torques

Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Terminal box cover screws	2,3 Nm
Mounting bolts	21 Nm

Terminal box



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
- **Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

IP54 (with cable gland)

- 1: Power connection, 3 x 4.8 mm (3/16")
- 2: Earth M5
- 3: Thermostat connector
- 4: Knock-out Ø 22 mm (7/8") for 1/2" conduit
- 5: Knock-out Ø 16.5 mm (0.65")
- 6: Knock-out Ø 20.5 mm (0.81")
- 7: Double knock-out Ø 32.1 mm (1.26") & Ø 25.4 mm (1")
- 8: Double knock-out Ø 44 mm (1-3/4") for 1-1/4" conduit & Ø 34 mm (1-3/8") for 1" conduit





Datasheet, accessories and spare parts

Performer scroll compressor, SM185-4

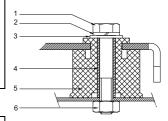
Rotolock accessories, suction side	Code no.
Rotolock accessories, discharge side	Code no.
Rotolock accessories, sets	Code no.
Oil / lubricants	Code no.
Mineral oil, 160P, 2 litre can	7754001
Mineral oil, 160P, 5 litre can	7754002

Crankcase heaters	Code no.
Surface sump heater + bottom insulation, 56 W, 24 V, CE mark, UL	120Z0360
Surface sump heater + bottom insulation, 56 W, 230 V, CE mark, UL	120Z0376
Surface sump heater + bottom insulation, 56 W, 400 V, CE mark, UL	120Z0377
Surface sump heater + bottom insulation, 56 W, 460 V, CE mark, UL	120Z0378
Belt type crankcase heater, 75 W, 230 V, CE mark, UL	7773108
Belt type crankcase heater, 75 W, 400 V, CE mark, UL	7773118
Belt type crankcase heater, 75 W, 460 V, CE mark, UL	120Z0464

Miscellaneous accessories	Code no.
Electronic soft start kit, MCI 25 C	7705007
Acoustic hood for scroll compressor S175-S185	7755007
Acoustic bottom insulation for scroll compressor	120Z0353
Discharge thermostat kit	7750009

Spare parts	Code no.
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	8156138
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers, 2 rotolock nuts, 2 solder sleeves, 2 gaskets	8156147
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (white teflon)	8156129
Terminal box 186 x 198 mm, incl cover	8156139
T block connector 60 x 75 mm	8173021

Mounting kit



1: Bolt (4x)

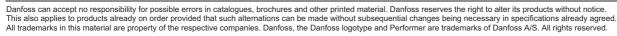
2: Lock washer (4x)

3: Flat washer (4x)

4: Sleeve (4x)

5: Grommet (4x)

6: Nut (4x)







Performer scroll compressor. SM185-4

Performance data at 50 Hz, EN 12900 rating conditions

R22

Cond. temp. in Evaporating temperature in °C (to)									
°C (tc)	-20	-15	-10	-5	0	5	10	15	
Caalian assasits	. : \A/								
Cooling capacity 30	18 321	22 879	28 204	34 366	41 435	49 479	58 569	68 774	_
									-
35	17 280	21 729	26 914	32 904	39 768	47 575	56 393	66 294	-
40	16 221	20 543	25 569	31 367	38 006	45 556	54 085	63 663	-
45	-	19 302	24 144	29 727	36 118	43 386	51 599	60 828	-
50	-	-	22 668	28 017	34 141	41 109	48 989	57 851	-
55	-	-	-	26 214	32 048	38 693	46 217	54 689	-
60	-	-	-	-	29 832	36 128	43 270	51 324	-
65	-	-	-	-	27 523	33 453	40 192	47 810	-
Power input in W	ı								
30	7 964	8 050	8 133	8 212	8 284	8 347	8 399	8 437	-
35	8 819	8 906	8 991	9 071	9 145	9 211	9 265	9 306	
40	9 773	9 861	9 947	10 030	10 106	10 174	10 231	10 275	-
45	-	10 925	11 013	11 097	11 176	11 247	11 307	11 354	-
50	-	-	12 196	12 283	12 364	12 438	12 501	12 553	-
55	-	-	-	13 596	13 680	13 757	13 824	13 879	-
60	-	-	-	-	15 132	15 212	15 283	15 342	-
65	-	-	-	-	16 731	16 814	16 889	16 953	-
•			•	•			•		
Current consum		T	T	T	1	T		T T	
30	17.62	17.72	17.80	17.88	17.93	17.97	17.99	17.98	-
35	18.55	18.65	18.74	18.82	18.88	18.93	18.95	18.95	-
40	19.61	19.72	19.82	19.90	19.97	20.03	20.06	20.08	-
45	-	20.94	21.05	21.14	21.22	21.29	21.33	21.36	-
50	-	-	22.45	22.55	22.64	22.72	22.78	22.82	-
55	-	-	-	24.14	24.25	24.34	24.42	24.48	-
60	-	-	-	-	26.06	26.17	26.26	26.34	-
65	-	-	-	-	28.09	28.21	28.32	28.42	-
Mass flow in kg/l	h								
30	394	486	592	712	848	1 001	1 172	1 363	-
35	387	480	586	707	844	999	1 171	1 363	-
40	378	472	580	702	840	994	1 167	1 359	-
45	-	464	572	694	832	988	1 161	1 353	-
50	-	-	562	685	823	978	1 151	1 343	-
55	_	_	-	673	811	966	1 138	1 330	_
60	_	-	_	-	796	950	1 122	1 313	_
65	-	-	-	-	778	931	1 102	1 292	-
•			•	•	•	•	•	· "	
Coefficient of pe	•		T	T				I I	
30	2.30	2.84	3.47	4.18	5.00	5.93	6.97	8.15	-
35	1.96	2.44	2.99	3.63	4.35	5.17	6.09	7.12	-
40	1.66	2.08	2.57	3.13	3.76	4.48	5.29	6.20	-
45	-	1.77	2.19	2.68	3.23	3.86	4.56	5.36	-
50	-	-	1.86	2.28	2.76	3.31	3.92	4.61	-
55	-	-	-	1.93	2.34	2.81	3.34	3.94	-
60	-	-	-	-	1.97	2.37	2.83	3.35	-
65	-	-	-	-	1.65	1.99	2.38	2.82	-

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

itolimiai portormanos at to 00, to	00 0	
Cooling capacity	41 109	W
Power input	12 438	W
Current consumption	22.72	Α
Mass flow	978	kg/h
C.O.P.	3.31	

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	28	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	80	dB(A)
With accoustic hood	72	dB(A)

All performance data +/- 5%





Performer scroll compressor. SM185-4

Performance data at 50 Hz, ARI rating conditions

R22

Cond. temp. in Evaporating temperature in °C (to)									
°C (tc)	-20	-15	-10	-5	0	5	10	15	
Cooling capacit	v in W					•			
30	19 439	24 255	29 878	36 380	43 832	52 306	61 875	72 610	-
35	18 400	23 118	28 611	34 951	42 209	50 458	59 770	70 215	-
40	17 337	21 936	27 278	33 434	40 478	48 480	57 512	67 647	-
45	-	20 708	25 877	31 829	38 637	46 371	55 103	64 906	-
50	-	-	24 409	30 136	36 686	44 131	52 542	61 992	-
55	-	-	-	28 354	34 625	41 760	49 828	58 904	-
60	-	-	-	-	32 455	39 257	46 962	55 642	-
65	-	-	-	-	30 174	36 623	43 943	52 207	-
Power input in V	v								
30	7 964	8 050	8 133	8 212	8 284	8 347	8 399	8 437	-
35	8 819	8 906	8 991	9 071	9 145	9 211	9 265	9 306	-
40	9 773	9 861	9 947	10 030	10 106	10 174	10 231	10 275	-
45	-	10 925	11 013	11 097	11 176	11 247	11 307	11 354	-
50	-	-	12 196	12 283	12 364	12 438	12 501	12 553	-
55	-	-	-	13 596	13 680	13 757	13 824	13 879	-
60	-	-	-	-	15 132	15 212	15 283	15 342	-
65	-	-	-	-	16 731	16 814	16 889	16 953	-
•									
Current consum		47.70	47.00	47.00	47.02	47.07	47.00	47.00	
30	17.62	17.72	17.80	17.88	17.93	17.97	17.99	17.98	-
35 40	18.55 19.61	18.65 19.72	18.74 19.82	18.82 19.90	18.88 19.97	18.93 20.03	18.95 20.06	18.95 20.08	<u> </u>
45	-	20.94	21.05	21.14	21.22	21.29	21.33	21.36	-
50		-	22.45	22.55	22.64	22.72	22.78	22.82	<u>-</u>
55			-	24.14	24.25	24.34	24.42	24.48	
60	-	_	_	-	26.06	26.17	26.26	26.34	_
65	-	_	_	_	28.09	28.21	28.32	28.42	-
<u> </u>				1		-		-	
Mass flow in kg/									
30	392	484	589	708	843	995	1 165	1 355	-
35	385	477	583	704	840	993	1 164	1 355	-
40	376	470	577	698	835	989	1 161	1 352	-
45 50	<u> </u>	461	569 559	691 681	828 819	982 973	1 154 1 145	1 345 1 336	-
55	<u> </u>	-	559	669	807	960	1 132	1 323	<u> </u>
60		-	-	- 009	792	960	1 116	1 323	-
65		-	_		774	926	1 096	1 284	-
00		<u> </u>	l		77.1	020	1 000	1201	
Coefficient of pe	•	, <i>'</i>	1 -		_	_	_		
30	2.44	3.01	3.67	4.43	5.29	6.27	7.37	8.61	-
35	2.09	2.60	3.18	3.85	4.62	5.48	6.45	7.55	-
40	1.77	2.22	2.74	3.33	4.01	4.77	5.62	6.58	-
45	-	1.90	2.35	2.87	3.46	4.12	4.87	5.72	-
50	-	-	2.00	2.45	2.97	3.55	4.20	4.94	-
55	-	-	-	2.09	2.53	3.04	3.60	4.24	-
60	-	-	-	-	2.14	2.58	3.07	3.63	-
65	-	-	-	-	1.80	2.18	2.60	3.08	-

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

Nominal performance at to 7.2 0, to	U-1T U	
Cooling capacity	45 500	W
Power input	13 622	W
Current consumption	24.17	Α
Mass flow	1 035	kg/h
C.O.P.	3.34	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Pressure switch settings

Maximum HP switch setting	28	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	80	dB(A)
With accoustic hood	72	dB(A)

All performance data +/- 5%





Datasheet, drawing Scroll compressor

