ENGINEERING TOMORROW



**Datasheets** 

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



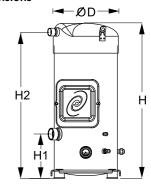


### Datasheet, technical data

# **General Characteristics**

Model number (on compressor nameplate)	SM160T4RC	SM160T4CC
Code number for Singlepack*	SM160-4RAI	SM160-4CBI
Code number for Industrial pack**	SM160-4RAM	SM160-4CBM
Drawing number	8551120b	8551055c
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	216.6 cm3/rev	
Displacement @ Nominal speed	37.7 m3/h @ 2900 rpm - 45.5 m3/h @ 3500 rpm	
Net weight	90 kg	
Oil charge	4 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	12	
Refrigerant charge limit	12.5 kg	
Approved refrigerants	R22, R417A-160SZ	

### **Dimensions**



D=266 mm H=631 mm H1=180 mm H2=596 mm H3=- mm

### **Electrical Characteristics**

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	0.94 Ω
Maximum Must Trip current (MMT)	29 A
Locked Rotor Amps (LRA)	150 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

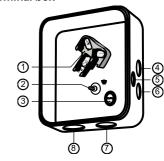
# Parts shipped with compressor

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

### **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

<sup>\*\*</sup>Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)



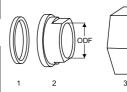
## Datasheet, accessories and spare parts

# Available for after sales service only, SM160-4

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 Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF) 8168028

### Gaskets, sleeves and nuts



1: Gasket
2: Solder sleeve
3: Rotolock nut

8156132

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, 48 W, 24 V, CE mark, UL	120Z0363
Surface sump heater + bottom insulation, 48 W, 230 V, CE mark, UL	120Z0384
Surface sump heater + bottom insulation, 48 W, 400 V, CE mark, UL	120Z0385
Surface sump heater + bottom insulation, 48 W, 460 V, CE mark, UL	120Z0386
Belt type crankcase heater, 65 W, 460 V, CE mark, UL	120Z0466
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	7773107
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	7773117
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0039

1: Rotolock adapter (Suc & Dis)

2: Gasket (Suc & Dis)

3: Solder sleeve (Suc & Dis)

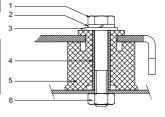
4: Rotolock nut (Suc & Dis)

### Miscellaneous accessories

Gasket, 1-3/4"

Miscellaneous accessories	Code no.
Electronic soft start kit, MCI 25 C	7705007
Acoustic hood for scroll compressor \$160	7755008
Bottom insulation for scroll compressor	120Z0357
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	8156138
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers,	8156147
2 rotolock nuts, 2 solder sleeves, 2 gaskets	
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)



# Datasheet, performance data

# Available for after sales service only. SM160-4

# Performance data at 50 Hz, EN 12900 rating conditions

**R22** 

Cooling capacity in W	Cond. temp. in	Evaporating temperature in °C (to)								
30	°C (tc)	-20	-15	-10	-5	0	5	10	15	
30										
35			T		1		1	1		
40		15 338	19 243			35 065		49 619	58 275	-
45	35	14 593	18 420	22 868	27 997	33 864	40 529	48 049	56 483	-
So	40	13 756	17 489	21 820	26 807	32 510	38 985	46 293	54 490	-
	45	-	16 435	20 633	25 464	30 986	37 257	44 335	52 279	-
Continuation   Cont	50	-	-	19 294	23 952	29 277	35 327	42 160	49 834	-
Cover Input in W   Cover Input	55	-	-	-	22 258	27 370	33 183	39 753	47 140	-
	60	-	-	-	-	25 250	30 808	37 099	44 180	-
30	65	-	-	-	-	22 904	28 189	34 181	40 939	-
30	Power input in V	v								
35			7 025	7 111	7 203	7 299	7 398	7 500	7 604	-
40 8 389 8 464 8 544 8 628 8 714 8 803 8 802 8 983 45 9 338 9 413 9 492 9 573 9 655 9 738 9 821 50 10 398 10 471 10 546 10 622 10 697 10 772 55 1 11 675 11 643 11 711 11 779 11 845 60 1 2 74 12 935 12 994 13 050 60 1 2 74 12 935 12 994 13 050 60 1 2 74 12 935 12 994 13 050 60 1 2 74 12 935 12 994 13 050 60 1 14 249 14 301 14 351 14 398  **Iurrent consumption in A** 30 13.79 13.88 13.97 14.07 14.16 14.24 14.32 14.39 35 14 62 14.71 14.80 14.90 14.99 15.07 15.16 15.22 40 15.59 15.88 15.77 15.87 15.87 15.98 16.04 16.12 16.18 45 16.81 16.90 16.99 17.08 17.16 17.24 17.31 50 16.81 16.90 16.99 17.08 17.16 17.24 17.31 50 18.21 18.30 18.38 18.46 18.54 18.60 60 1 18.21 18.30 18.38 18.46 18.54 18.60 60 1 19.79 19.87 19.98 20.02 20.09 60 19.79 19.87 19.98 19.98 23.56 23.62 23.68  **Iass flow in kg/h** 30 330 409 499 602 718 848 993 1155 40 321 402 495 600 718 881 999 1163 40 321 402 495 600 718 881 999 1163 50 479 895 997 1161 50 479 896 596 714 848 997 1163 50 479 896 599 1163 50 479 896 602 719 850 997 1163 50 479 896 602 1131 50 479 896 602 1131 50 479 896 997 1163 50 479 896 602 1131 50 479 896 997 1163 50 479 896 997 1163 50 479 896 997 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706 841 991 1163 50 479 886 706										-
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50									1	
11   12   13   14   15   15   15   16   14   14   14   14   14   14   14	1						1			
12   13   13   13   13   13   13   13						†				-
Current consumption in A    30		_		_	-		•	1	1	_
Surrent consumption in A  30		_		_	_	1				_
13.79	00	· · · · · · · · · · · · · · · · · · ·			_	11270	11001	11001	11 000	
30	urrent consum	ntion in A								
35		•	13.88	13.97	14.07	14.16	14.24	14.32	14.39	_
40			+				+			_
45										
18.21								1		_
55	1						1		1	
60 21.57 21.64 21.71 21.78 - 65 23.48 23.56 23.62 23.68 23.48 23.56 23.62 23.68 23.48 23.56 23.62 23.68 23.48 23.56 23.62 23.68 23.48 23.56 23.62 23.68 23.48 23.56 23.62 23.68 23.48 23.56 23.62 23.68 23.48 23.56 23.62 23.68 23.48 23.56 23.62 23.68 23.48 23.56 23.62 23.68 23.48 23.56 23.62 23.68 23.49 23.48 23.56 23.56 23.62 23.68 23.49 23.48 23.56 23.56 23.62 23.68 23.49 23.48 23.56 23.56 23.62 23.68 23.49 23.48 23.56 23.56 23.56 23.62 23.68 23.49 23.48 23.56 23.57 23.56 23.56 23.57 23.5				1			•			
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Coefficient of performance (C.O.P.)       30     2.21     2.74     3.35     4.03     4.80     5.66     6.62     7.66     -       35     1.92     2.39     2.94     3.56     4.25     5.03     5.90     6.85     -       40     1.64     2.07     2.55     3.11     3.73     4.43     5.21     6.07     -       45     -     1.76     2.19     2.68     3.24     3.86     4.55     5.32     -       50     -     -     1.86     2.29     2.78     3.33     3.94     4.63     -       55     -     -     -     1.92     2.35     2.83     3.37     3.98     -       60     -     -     -     -     1.96     2.38     2.86     3.39     -							+	ł		
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35         1.92         2.39         2.94         3.56         4.25         5.03         5.90         6.85         -           40         1.64         2.07         2.55         3.11         3.73         4.43         5.21         6.07         -           45         -         1.76         2.19         2.68         3.24         3.86         4.55         5.32         -           50         -         -         1.86         2.29         2.78         3.33         3.94         4.63         -           55         -         -         -         1.92         2.35         2.83         3.37         3.98         -           60         -         -         -         -         1.96         2.38         2.86         3.39         -	-	•		2.25	4.02	4.90	5.66	6.62	7.66	
40     1.64     2.07     2.55     3.11     3.73     4.43     5.21     6.07     -       45     -     1.76     2.19     2.68     3.24     3.86     4.55     5.32     -       50     -     -     1.86     2.29     2.78     3.33     3.94     4.63     -       55     -     -     -     1.92     2.35     2.83     3.37     3.98     -       60     -     -     -     1.96     2.38     2.86     3.39     -			+							
45         -         1.76         2.19         2.68         3.24         3.86         4.55         5.32         -           50         -         -         1.86         2.29         2.78         3.33         3.94         4.63         -           55         -         -         -         1.92         2.35         2.83         3.37         3.98         -           60         -         -         -         1.96         2.38         2.86         3.39         -										
50     -     -     1.86     2.29     2.78     3.33     3.94     4.63     -       55     -     -     -     1.92     2.35     2.83     3.37     3.98     -       60     -     -     -     -     1.96     2.38     2.86     3.39     -			+		+			1		
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65 1.61 1.97 2.38 2.84 -						1				
	65	-	-	-	-	1.61	1.97	2.38	2.84	-
ominal performance at to = 5 °C, tc = 50 °C  Pressure switch settings	ooling conceity		25.222	7 \\/			Massines um LID assit		20	In/\

Cooling capacity Power input 10 622 W Current consumption 18.46 Mass flow 841 kg/h C.O.P. 3.33

35 327

W

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

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	79.5	dB(A)
With accoustic hood	72	dB(A)

All performance data +/- 5%

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to: Evaporating temperature at dew point

tc: Condensing temperature at dew point



# Datasheet, performance data

# Available for after sales service only. SM160-4

# Performance data at 50 Hz, ARI rating conditions

**R22** 

16 276 15 541 14 707 - - - - - - 6 945 7 619	-20	-15	-10	-	•	_			
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- - - - 6 945 7 619	14 707	18 680	23 285	28 582	34 633	41 499	49 239	57 915	-
- - - 6 945 7 619	-	17 632	22 113	27 264	33 146	39 819	47 344	55 782	-
- - 6 945 7 619	-	-	20 781	25 770	31 467	37 932	45 227	53 412	-
- 6 945 7 619	-	-	-	24 083	29 580	35 823	42 872	50 788	-
7 619	-	-	-	-	27 469	33 473	40 262	47 894	-
7 619	-	-	-	-	25 116	30 868	37 380	44 714	-
7 619	ı W								
7 619		7 025	7 111	7 203	7 299	7 398	7 500	7 604	_
		7 697	7 780	7 868	7 959	8 053	8 150	8 247	
0 200		8 464		<u> </u>		1	8 892		
	8 389		8 544	8 628	8 714	8 803		8 983	
-	+	9 338	9 413	9 492	9 573 10 546	9 655	9 738	9 821	<u> </u>
		-	10 398	10 471	1	10 622	10 697	10 772	
-	+ -	-	-	11 575	11 643	11 711	11 779	11 845	-
-	+	-	-	-	12 874	12 935	12 994	13 050	
-	-	-	-	-	14 249	14 301	14 351	14 398	-
ı in A	ımption in A								
	13.79	13.88	13.97	14.07	14.16	14.24	14.32	14.39	
	14.62	14.71	14.80	14.90	14.99	15.07	15.15	15.22	
	15.59	15.68	15.77	15.87	15.96	16.04	16.12	16.18	
-		16.81	16.90	16.99	17.08	17.16	17.24	17.31	
_		-	18.21	18.30	18.38		18.54	18.60	
-	-			19.79		18.46			
-	+ -	-	-	-	19.87	19.95	20.02	20.09	
-	+	-	-		21.57 23.48	21.64 23.56	21.71 23.62	21.78 23.68	-
-		-	-	-	23.40	23.50	23.02	23.00	-
	rg/h								
328		407	497	599	714	843	988	1 149	_
325		404	495	599	715	846	992	1 154	
319	1	404	493	597			993		
-	1				714	846		1 157	
-	+ -	393	486	592	710	843	991	1 156	-
-	+ -	-	476	583	702	836	985	1 151	
-	+	-	-	569	689	824	974	1 141	-
-	+	-	-	-	670	806	957	1 124	-
-	-	-	-	-	644	780	932	1 100	
	performance (C.O.I	,							
2.34						+		1	-
2.04		2.55	3.12	3.78	4.52	5.34	6.25	7.25	-
1.75	1.75				3.97	4.71		6.45	-
_	-	1.89	2.35	2.87	3.46	4.12	4.86	5.68	-
	-	-	2.00	2.46	2.98	3.57	4.23	4.96	-
	-	-	-	2.08	2.54	3.06	3.64	4.29	-
-	-	-	-	-	2.13	2.59	3.10	3.67	-
-	-	-	-	-	1.76	2.16	2.60	3.11	-
-									
2. 2. 1.	2. 2. 1.	34 04 75 - - -	34 2.90 04 2.55 75 2.21 - 1.89 	34 2.90 3.55 04 2.55 3.12 75 2.21 2.73 - 1.89 2.35 2.00	34 2.90 3.55 4.27 04 2.55 3.12 3.78 75 2.21 2.73 3.31 - 1.89 2.35 2.87 2.00 2.46 2.08	34 2.90 3.55 4.27 5.08  04 2.55 3.12 3.78 4.52  75 2.21 2.73 3.31 3.97  - 1.89 2.35 2.87 3.46  2.00 2.46 2.98  2.08 2.54  2.13  - 1.76	34	34     2.90     3.55     4.27     5.08     5.99     6.99       04     2.55     3.12     3.78     4.52     5.34     6.25       75     2.21     2.73     3.31     3.97     4.71     5.54       -     1.89     2.35     2.87     3.46     4.12     4.86       -     -     2.00     2.46     2.98     3.57     4.23       -     -     2.08     2.54     3.06     3.64       -     -     -     2.13     2.59     3.10       -     -     -     1.76     2.16     2.60      Pressure switch settings	34

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

39 100

11 604

19.80

890

3.37

W

W

kg/h

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

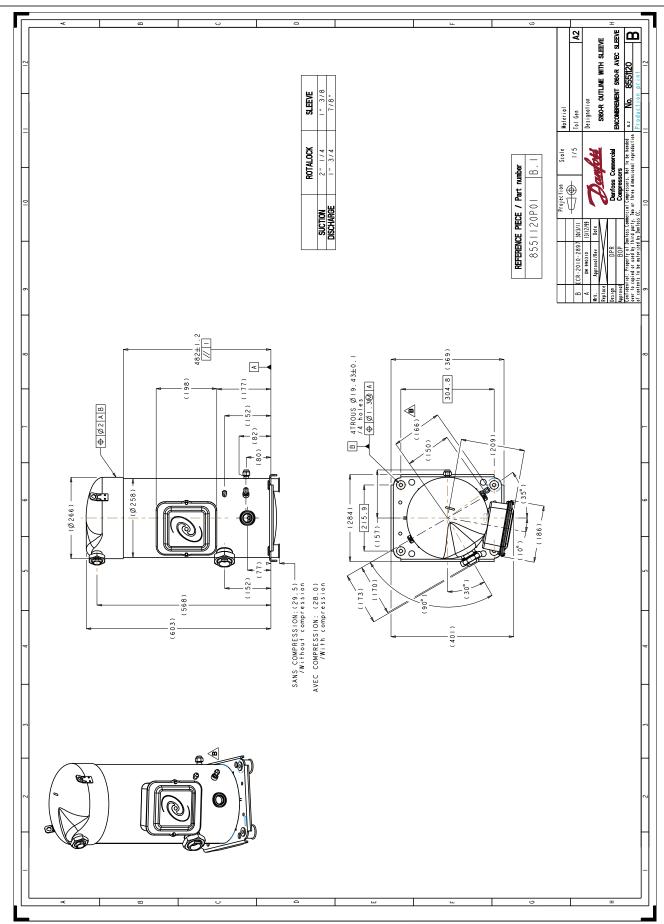
Sound power level	79.5	dB(A)
With accoustic hood	72	dB(A)

All performance data +/- 5%

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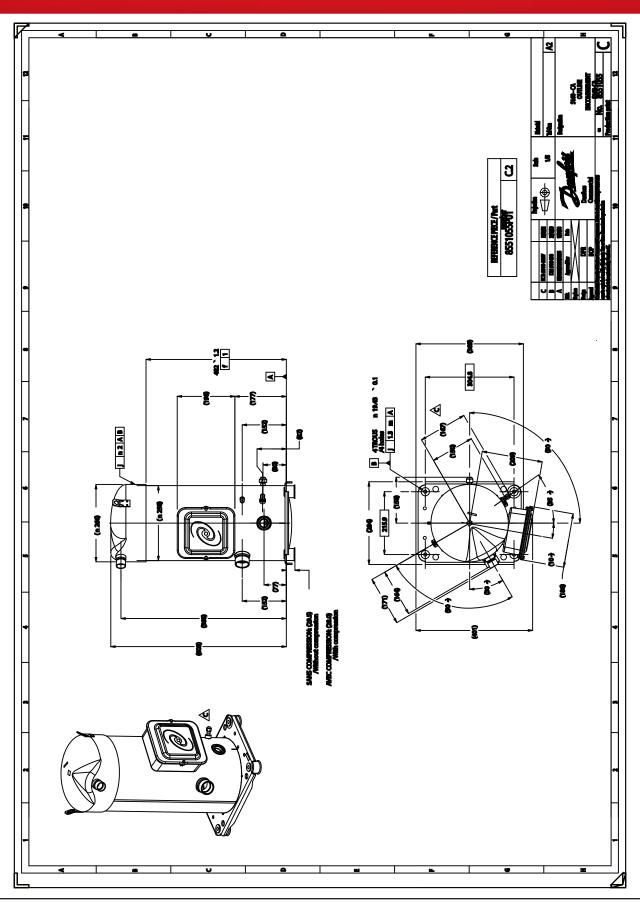
Datasheet, drawing Scroll compressor



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