

Quick Reference

# Performer<sup>®</sup> Scroll Compressors SM - SY - SZ

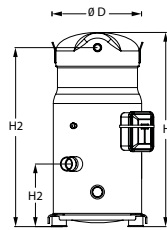
R407C - R134a - R22  
50 Hz



## Product range single compressors

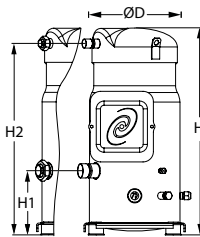
	D	H	H1	H2
S084 S090 S100	254	508	142	465
S110 S120	254	558	178	515
S148 S161	266	591	180	556

All dimensions in mm



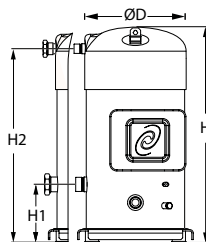
	D	H	H1	H2
S115 S125	254	586	180	538
S160	266	631	180	596
S175 S185	316	678	180	641

All dimensions in mm



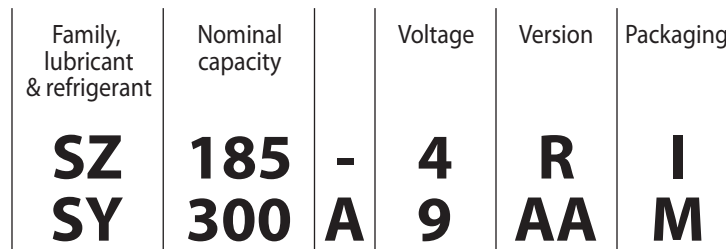
	D	H	H1	H2
S240	344	729	196	656
S300	344	740	196	667
S380	344	770	203	695

All dimensions in mm



Model	Nominal voltage				
	200-230/ 3/60	400/3/50 460/3/60	230/3/50	500/3/50 575/3/60	380/3/60
	Motor voltage code				
	3	4	6	7	9
SM/SZ084	●	●	●	●	●
SM/SZ090	●	●	●	●	●
SM/SZ100	●	●	●	●	●
SM/SZ110	●	●	●	●	●
SM/SZ115	○ ●	○ ●	○ ●	○ ●	○ ●
SM/SZ120	●	●	●	●	●
SM/SZ125	○ ●	○ ●	○ ●	○ ●	○ ●
SM/SZ148	●	●	●	●	●
SM/SZ160	○ ●	○ ●	○ ●	○ ●	○ ●
SM/SZ161	●	●	●	●	●
SM/SZ175	○ ●	○ ●	○ ●	○ ●	○ ●
SM/SZ185	○ ●	○ ●	○ ●	○ ●	○ ●
SY/SZ240	○ ●	○ ●	○ ●	○ ●	○ ●
SY/SZ300	○ ●	○ ●	○ ●	○ ●	○ ●
SY/SZ380 *		●			

\* SY380 only available for 400/3/50Hz ○ Rotolock version ● Brazed version



**Family, lubricant & refrigerant**  
**SM:** Scroll, Mineral oil, for R22  
**SY:** Scroll, POE lubricant, for R22  
**SZ:** Scroll, POE lubricant, for R407C - R134a

**Nominal capacity**  
 in thousand Btu/h at 60 Hz, R22, ARI conditions

**Motor voltage code**  
 Refer to above table

**Packaging**  
**I:** Individual  
**M:** Multiple

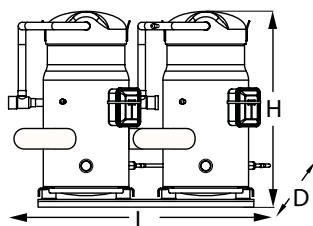
Motor protection type

Version

Applies to

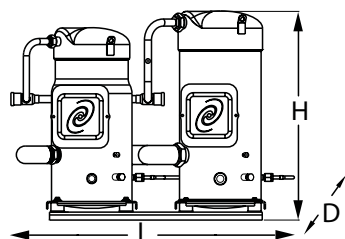
Motor protection type	V	VA	V	V	Brazed	Brazed	A	Evolution index	Applies to
Internal overload protector	V	VA	V	V	Brazed	Brazed	A	Evolution index	S 084 - 090 - 100 - 110 - 120 - 148 - 161
Internal thermostat, external overload protector required	C	CA	C	C	Brazed	Brazed	A	Evolution index	S 115 - 125 - 160 - 175 - 185
	R	RA	R	R	Rotolock	Rotolock	A	Evolution index	
	RA	RA	R	R	Rotolock	Rotolock	A	Evolution index	
Electronic protection module	AA	AB	A	A	Brazed	Brazed	A	24 V	S 240 - 300 S 380 (no rotolock)
	AB	MA	A	M	Brazed	Rotolock	B	115/230 V	
	MA	MB	M	M	Rotolock	Rotolock	A	24 V	
	MB	MB	M	M	Rotolock	Rotolock	B	115/230 V	

## Product range tandem compressors



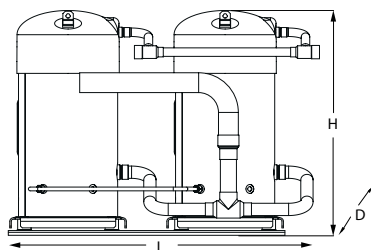
	L	D	H
S170 - 180 - 200	757	423	532
S 220 - 242	777	443	582
S 230 - 250	836	480	603
S 320	911	480	657
S 296 - 322	924	438	614
S 350 - 370	1004	495	717

All dimensions in mm



	L	D	H
S 268 - 271 - 281	930	441	614
S 285	884	480	657
S 290 - 310	924	480	705
S 425	1029	552	729
S 485	1029	552	740

All dimensions in mm



	L	D	H
S 482	984	510	730
S 540	984	510	740
S 600	984	510	740
S 620	1058	595	770
S 680	1058	595	770
S 760	1063	595	770

All dimensions in mm

Model	Composition	Nominal voltage				
		200-230/ 3/60	400/3/50 460/3/60	230/3/50	500/3/50 575/3/60	380/3/60
		Motor voltage code				
		3	4	6	7	9
SM/SZ170	S084 + S084	●	●	●	●	●
SM/SZ180	S090 + S090	●	●	●	●	●
SM/SZ200	S100 + S100	●	●	●	●	●
SM/SZ220	S110 + S110	●	●	●	●	●
SM/SZ230	S115 + S115	●	●	●	●	●
SM/SZ242	S120 + S120	●	●	●	●	●
SM/SZ250	S125 + S125	●	●	●	●	●
SM/SZ268	S148 + S120	●	●	●	●	●
SM/SZ271	S161 + S110	●	●	●	●	●
SM/SZ281	S161 + s120	●	●	●	●	●
SM/SZ285	S160 + S125	●	●	●	●	●
SM/SZ290	S175 + S115	●	●	●	●	●
SM/SZ296	S148 + S148	●	●	●	●	●
SM/SZ310	S185 + S125	●	●	●	●	●
SM/SZ320	S160 + S160	●	●	●	●	●
SM/SZ322	S161 + S161	●	●	●	●	●
SM/SZ350	S175 + S175	●	●	●	●	●
SM/SZ370	S185 + S185	●	●	●	●	●
SZ425	S240 + S185	○	○	○	○	○
SY/SZ482	S240 + S240	○	○	○	○	○
SZ485	S300 + S185	○	○	○	○	○
SY/SZ540	S300 + S240	○	○	○	○	○
SY/SZ600	S300 + S300	○	○	○	○	○
SY/SZ620 *	S240 + S380		○			
SY/SZ680 *	S300 + S380		○			
SY/SZ760 *	S380 + S380		○			

\* SY models only available for 400/3/50Hz ● Factory built ○ Field assembly

Family,  
lubricant  
& refrigerant

**SZ**

Family, lubricant  
& refrigerant

**SM:** Scroll, Mineral oil, for R22  
**SY:** Scroll, POE lubricant, for R22  
**SZ:** Scroll, POE lubricant, for R407C - R134a

Nominal  
capacity

**285**

Voltage

**4**

Evolution  
index

**A**

**Motor voltage code:**  
Refer to above table

**Nominal capacity**  
in thousand Btu/h  
at 60 Hz, R22,  
ARI conditions

**SM / SY R22**
**Performance data**

Model	To Tc	-20		-15		-10		-5		0		5		10		15	
		Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe
SM084	35	7 700	4.0	9 900	4.0	12 500	4.0	15 500	4.0	18 900	4.0	22 800	4.0	27 200	3.9	32 100	3.9
	55	-	-	-	-	-	-	12 000	6.4	15 000	6.3	18 500	6.2	22 500	6.2	26 900	6.1
SM090	35	8 600	4.3	10 900	4.4	13 600	4.4	16 700	4.4	20 200	4.4	24 300	4.4	28 900	4.4	34 100	4.4
	55	-	-	-	-	-	-	13 300	6.7	16 400	6.7	19 900	6.6	23 900	6.6	28 400	6.5
SM100	35	9 000	4.6	11 500	4.6	14 400	4.7	17 700	4.7	21 500	4.7	25 800	4.7	30 700	4.7	36 200	4.7
	55	-	-	-	-	-	-	14 200	7.1	17 400	7.1	21 200	7.1	25 400	7.0	30 200	7.0
SM110	35	10 200	5.2	13 000	5.2	16 200	5.2	20 000	5.2	24 200	5.2	29 000	5.2	34 400	5.2	40 400	5.2
	55	-	-	-	-	-	-	15 900	8.0	19 600	8.0	23 800	7.9	28 400	7.9	33 700	7.8
SM115	35	11 200	5.4	13 900	5.4	17 100	5.4	20 800	5.5	25 100	5.5	30 000	5.4	35 600	5.4	41 800	5.4
	55	-	-	-	-	-	-	16 500	8.6	20 700	8.5	25 500	8.5	31 000	8.4	37 100	8.3
SM120	35	11 800	6.0	15 200	6.0	19 000	6.0	23 300	5.9	28 200	5.9	33 700	5.9	39 900	5.9	46 700	5.9
	55	-	-	-	-	-	-	18 600	9.2	22 800	9.2	27 600	9.1	33 000	9.0	38 900	9.0
SM125	35	12 000	5.8	15 000	5.8	18 400	5.9	22 400	5.9	27 000	5.9	32 300	5.9	38 200	5.8	45 000	5.8
	55	-	-	-	-	-	-	17 700	9.3	22 300	9.2	27 400	9.1	33 300	9.0	39 900	8.9
SM148	35	14 800	7.0	18 500	7.0	22 900	7.1	27 800	7.1	33 600	7.2	40 100	7.2	47 500	7.3	55 900	7.3
	55	-	-	-	-	-	-	22 600	10.9	27 500	10.9	33 100	10.9	39 500	11.0	46 800	11.0
SM160	35	15 500	7.6	19 600	7.7	24 300	7.8	29 700	7.9	35 900	8.0	43 000	8.1	50 900	8.1	59 800	8.2
	55	-	-	-	-	-	-	24 100	11.6	29 600	11.6	35 800	11.7	42 900	11.8	50 800	11.8
SM161	35	16 000	7.5	20 100	7.6	24 700	7.6	30 100	7.6	36 300	7.7	43 400	7.7	51 400	7.8	60 500	7.8
	55	-	-	-	-	-	-	24 400	11.7	29 700	11.7	35 800	11.7	42 800	11.8	50 600	11.8
SM175	35	17 000	8.1	21 300	8.1	26 400	8.2	32 300	8.3	39 000	8.4	46 600	8.4	55 200	8.5	64 800	8.5
	55	-	-	-	-	-	-	26 200	12.4	32 000	12.5	38 500	12.6	46 000	12.6	54 400	12.7
SM185	35	18 400	8.8	23 100	8.9	28 600	9.0	35 000	9.1	42 200	9.1	50 500	9.2	59 800	9.3	70 200	9.3
	55	-	-	-	-	-	-	28 400	13.6	34 600	13.7	41 800	13.8	49 800	13.8	58 900	13.9
SY240	35	25 100	11.7	31 400	11.8	38 800	12.0	47 300	12.1	57 100	12.4	68 300	12.6	81 000	13.0	95 300	13.3
	55	-	-	-	-	-	-	38 400	17.8	46 600	18.0	56 100	18.3	67 000	18.6	79 300	18.9
SY300	35	31 900	14.2	39 900	14.5	49 300	14.8	60 300	15.1	73 100	15.6	87 900	16.1	104 800	16.7	124 100	17.4
	55	-	-	-	-	-	-	48 600	22.0	59 200	22.4	71 600	22.8	85 900	23.4	102 300	24.1
SY380	35	40 100	17.3	49 500	17.6	60 500	18.0	73 300	18.4	88 100	18.8	104 900	19.2	124 100	19.8	145 800	20.4
	55	-	-	-	-	-	-	59 700	26.8	72 300	27.1	86 800	27.5	103 400	27.9	122 300	28.4
SM170	35	15 200	8.0	19 500	8.0	24 600	8.0	30 500	8.0	37 200	8.0	44 900	7.9	53 500	7.9	63 200	7.8
	55	-	-	-	-	-	-	23 600	12.7	29 600	12.6	36 500	12.5	44 300	12.3	53 100	12.1
SM180	35	16 900	8.6	21 400	8.7	26 700	8.8	32 800	8.8	39 900	8.8	47 900	8.8	56 900	8.8	67 100	8.7
	55	-	-	-	-	-	-	26 200	13.4	32 300	13.3	39 300	13.3	47 100	13.2	56 000	13.1
SM200	35	17 700	9.2	22 600	9.3	28 300	9.3	34 800	9.3	42 300	9.4	50 900	9.4	60 500	9.4	71 300	9.4
	55	-	-	-	-	-	-	27 900	14.3	34 400	14.2	41 700	14.1	50 000	14.0	59 400	13.9
SM220	35	20 000	10.4	25 500	10.4	32 000	10.4	39 300	10.4	47 700	10.5	57 100	10.5	67 700	10.4	79 500	10.4
	55	-	-	-	-	-	-	31 400	16.0	38 600	16.0	46 800	15.9	56 000	15.8	66 300	15.6
SM230	35	22 000	10.8	27 400	10.9	33 700	10.9	41 000	10.9	49 500	10.9	59 100	10.9	70 100	10.9	82 400	10.8
	55	-	-	-	-	-	-	32 500	17.2	40 800	17.1	50 200	16.9	61 000	16.7	73 100	16.5
SM242	35	23 300	12.0	29 900	11.9	37 400	11.9	45 900	11.9	55 600	11.9	66 400	11.9	78 500	11.8	92 000	11.8
	55	-	-	-	-	-	-	36 600	18.4	45 000	18.3	54 400	18.2	64 900	18.1	76 600	17.9
SM250	35	23 700	11.6	29 500	11.7	36 200	11.7	44 100	11.7	53 200	11.7	63 500	11.7	75 300	11.7	88 600	11.6
	55	-	-	-	-	-	-	35 000	18.5	43 800	18.4	54 000	18.2	65 600	18.0	78 600	17.7
SM268	35	26 300	13.0	33 200	13.0	41 200	13.0	50 400	13.1	60 800	13.1	72 700	13.2	86 000	13.2	101 000	13.2
	55	-	-	-	-	-	-	40 500	20.1	49 600	20.1	59 800	20.0	71 400	20.0	84 400	20.0
SM271	35	25 800	12.7	32 500	12.8	40 300	12.8	49 300	12.9	59 600	12.9	71 300	13.0	84 500	13.0	99 300	13.0
	55	-	-	-	-	-	-	39 700	19.7	48 600	19.7	58 700	19.7	70 100	19.6	83 000	19.6
SM281	35	27 500	13.5	34 700	13.5	43 000	13.6	52 600	13.6	63 600	13.6	75 900	13.7	89 900	13.7	105 500	13.7
	55	-	-	-	-	-	-	42 300	20.9	51 800	20.9	62 500	20.8	74 600	20.8	88 200	20.8
SM285	35	27 100	13.4	34 000	13.5	42 100	13.6	51 400	13.7	62 000	13.8	74 100	13.9	87 800	14.0	103 200	14.1
	55	-	-	-	-	-	-	41 200	20.8	51 100	20.8	62 300	20.8	75 000	20.8	89 300	20.7
SM290	35	27 700	13.5	34 700	13.6	42 900	13.7	52 300	13.8	63 100	13.8	75 400	13.9	89 400	13.9	105 100	13.9
	55	-	-	-	-	-	-	42 000	21.0	51 900	21.1	63 100	21.1	75 800	21.0	90 100	20.9
SM296	35	29 200	14.0	36 500	14.1	45 000	14.2	54 800	14.2	66 100	14.3	79 000	14.4	93 600	14.5	110 100	14.6
	55	-	-	-	-	-	-	44 500	21.8	54 100	21.8	65 200	21.8	77 900	21.9	92 200	21.9
SM310	35	30 000	14.6	37 500	14.7	46 300	14.8	56 500	14.9	68 200	15.0	81 500	15.1	96 500	15.1	113 500	15.1
	55	-	-	-	-	-	-	45 400	22.8	56 000	22.9	68 100	22.9	81 900	22.8	97 300	22.7
SM320	35	30 600	15.2	38 600	15.4	47 900	15.6	58 600	15.7	70 800	15.9	84 700	16.1	100 300	16.3	117 900	16.5
	55	-	-	-	-	-	-	47 400	23.1	58 300	23.3	70 600	23.4	84 500	23.5	100 100	23.7
SM322	35	31 600	15.0	39 500	15.1	48 700	15.2	59 300	15.3	71 500	15.4	85 500	15.5	101 300	15.6	119 100	15.6
	55	-	-	-	-	-	-	48 100	23.4	58 600	23.4	70 600	23.4	84 200	23.5	99 700	23.5
SM350	35	33 500	16.1	42 000	16.3	52 000	16.4	63 600	16.6	76 800	16.7	91 800	16.8	108 700	16.9	127 700	17.0
	55	-	-	-	-	-	-	51 600	24.9	63 000	25.0	75 900	25.2	90 600	25.3	107 100	25.4
SM370	35	36 200	17.6	45 500	17.8	56 400	18.0	68 900	18.1	83 200	18.3	99 400	18.4	117 700	18.5	138 300	18.6
	55	-	-	-	-	-	-	55 900	27.2	68 200	27.3	82 300	27.5	98 200	27.6	116 000	27.7
SY482	35	49 500	23.3	61 900	23.6	76 400	23.9	93 200	24.3	112 500	24.7	134 500	25.2	159 500	25.9	187 700	26.6
	55	-	-	-	-	-	-	75 600	35.6	91 900	36.1	110 600	36.6	131 900	37.1	156 100	37.8
SY540	35	56 200	25.9	70 200	26.3	86 700	26.7	106 000	27.3	128 300	27.9	153 800	28.7	183 000	29.6	216 000	30.7
	55	-	-	-	-	-	-	85 600	39.8	104 300	40.4	125 900	41.1	150 600	42.0	178 800	43.0
SY600	35	62 900	28.5	78 600	28.9	97 100	29.5	118 800	30.2	144 100	31.1	173 200	32.2	206 500	33.4	244 400	34.8
	55	-	-	-	-	-	-	95 700	43.9	116 700	44.7	141 100	45.7	169 300	46.8	201 500	48.1
SY620	35	64 200	29.0	79 700	29.5	97 800	29.9	118 800	30.5	143 000	31.1	170 600	31.9	202 000	32.7	237 400	33.7
	55	-	-	-	-	-	-	96 600	44.6	117 200	45.1	140 800	45.7	167 800	46.5	198 500	47.3

**SZ R134a**
**Performance data**

Model	To Tc	-15		-10		-5		0		5		10		15	
		Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe
SZ084	35	6 200	2.8	8 000	2.8	10 100	2.8	12 600	2.8	15 400	2.7	18 700	2.7	22 400	2.6
	55	-	-	6 100	4.3	7 900	4.3	9 900	4.3	12 400	4.3	15 100	4.3	18 300	4.2
SZ090	35	6 700	2.9	8 600	2.9	10 900	3.0	13 400	2.9	16 400	2.9	19 800	2.9	23 600	2.8
	55	-	-	6 600	4.5	8 500	4.6	10 700	4.6	13 200	4.6	16 000	4.5	19 300	4.5
SZ100	35	7 300	3.1	9 400	3.1	11 700	3.1	14 400	3.1	17 500	3.1	21 000	3.1	25 000	3.1
	55	-	-	7 300	4.8	9 300	4.8	11 500	4.9	14 100	4.9	17 100	4.9	20 400	4.8
SZ110	35	8 200	3.5	10 500	3.5	13 200	3.5	16 200	3.5	19 800	3.5	23 800	3.5	28 400	3.5
	55	-	-	8 100	5.4	10 400	5.4	13 000	5.5	16 000	5.5	19 400	5.5	23 300	5.4
SZ115	35	9 000	3.8	11 600	3.8	14 500	3.8	17 900	3.8	21 800	3.8	26 300	3.7	31 200	3.7
	55	-	-	8 900	5.9	11 400	5.9	14 300	5.9	17 600	5.9	21 400	5.9	25 700	5.9
SZ120	35	9 400	4.0	12 000	4.0	15 100	4.1	18 700	4.1	22 800	4.1	27 500	4.1	32 900	4.0
	55	-	-	9 300	6.2	11 900	6.3	14 900	6.3	18 400	6.3	22 400	6.3	27 000	6.2
SZ125	35	9 600	4.1	12 300	4.1	15 500	4.1	19 100	4.1	23 300	4.0	28 000	4.0	33 300	3.9
	55	-	-	9 500	6.3	12 100	6.3	15 200	6.3	18 800	6.3	22 800	6.3	27 400	6.2
SZ148	35	11 200	5.0	14 400	5.0	18 100	5.0	22 600	5.0	27 900	5.0	34 000	5.0	41 100	5.0
	55	-	-	11 200	7.7	14 200	7.7	17 800	7.7	22 100	7.7	27 100	7.8	32 800	7.8
SZ160	35	12 400	5.3	15 900	5.3	20 000	5.4	24 700	5.4	30 200	5.4	36 400	5.4	43 500	5.4
	55	-	-	12 300	7.9	15 800	8.0	19 800	8.0	24 500	8.1	29 800	8.1	35 900	8.1
SZ161	35	12 000	5.2	15 300	5.2	19 200	5.3	23 800	5.3	29 200	5.4	35 500	5.4	42 700	5.4
	55	-	-	12 100	8.0	15 300	8.0	19 200	8.1	23 700	8.1	28 900	8.1	35 000	8.1
SZ175	35	13 200	5.7	16 900	5.8	21 200	5.8	26 200	5.9	32 100	5.9	38 700	5.9	46 200	5.8
	55	-	-	13 100	8.6	16 700	8.6	21 000	8.7	26 000	8.7	31 700	8.8	38 100	8.8
SZ185	35	14 000	6.1	18 000	6.1	22 600	6.2	27 900	6.2	34 100	6.3	41 200	6.3	49 200	6.2
	55	-	-	13 900	9.1	17 800	9.2	22 400	9.3	27 700	9.3	33 700	9.3	40 600	9.3
SZ240	35	18 900	8.4	23 900	8.5	29 900	8.6	37 100	8.7	45 700	8.7	56 000	8.8	68 200	8.9
	55	-	-	18 800	12.3	23 800	12.5	29 700	12.6	36 700	12.7	45 000	12.9	54 700	13.0
SZ300	35	23 700	10.2	30 000	10.4	37 500	10.5	46 300	10.6	56 700	10.7	68 900	10.8	82 800	11.0
	55	-	-	23 600	15.2	29 700	15.4	37 100	15.6	45 800	15.9	55 900	16.1	67 800	16.4
SZ170	35	12 200	5.5	15 700	5.6	19 900	5.6	24 800	5.5	30 400	5.5	36 800	5.4	44 000	5.3
	55	-	-	11 900	8.6	15 500	8.6	19 600	8.6	24 300	8.6	29 800	8.5	36 000	8.4
SZ180	35	13 300	5.9	17 000	5.9	21 400	5.9	26 500	5.9	32 300	5.8	39 000	5.8	46 500	5.7
	55	-	-	13 100	9.1	16 800	9.1	21 100	9.1	26 000	9.1	31 600	9.1	38 000	9.0
SZ200	35	14 500	6.2	18 400	6.2	23 000	6.3	28 400	6.3	34 500	6.2	41 400	6.2	49 200	6.1
	55	-	-	14 400	9.6	18 200	9.7	22 700	9.7	27 800	9.7	33 600	9.7	40 200	9.7
SZ220	35	16 300	7.0	20 700	7.0	25 900	7.1	32 000	7.1	39 000	7.1	46 900	7.0	56 000	6.9
	55	-	-	16 100	10.8	20 500	10.9	25 600	10.9	31 400	10.9	38 200	10.9	45 900	10.9
SZ230	35	17 800	7.6	22 800	7.6	28 600	7.6	35 300	7.6	43 000	7.6	51 700	7.5	61 600	7.4
	55	-	-	17 500	11.7	22 500	11.8	28 200	11.8	34 800	11.8	42 200	11.8	50 700	11.7
SZ242	35	18 600	8.0	23 700	8.1	29 700	8.1	36 800	8.1	44 900	8.1	54 200	8.1	64 900	8.0
	55	-	-	18 300	12.5	23 400	12.5	29 300	12.5	36 200	12.5	44 200	12.5	53 300	12.4
SZ250	35	19 000	8.1	24 300	8.1	30 500	8.1	37 600	8.1	45 800	8.1	55 100	8.0	65 600	7.9
	55	-	-	18 600	12.5	23 900	12.5	30 000	12.6	37 000	12.6	45 000	12.5	54 000	12.5
SZ268	35	20 300	9.0	26 000	9.1	32 700	9.1	40 700	9.1	49 900	9.1	60 600	9.1	72 900	9.0
	55	-	-	20 100	13.9	25 700	14.0	32 200	14.0	39 900	14.0	48 700	14.0	59 000	14.0
SZ271	35	19 900	8.7	27 800	9.4	34 900	9.4	39 500	8.9	48 300	8.9	58 400	8.9	70 000	8.9
	55	-	-	21 400	14.2	27 500	14.2	31 700	13.5	39 000	13.6	47 600	13.6	57 400	13.6
SZ281	35	21 100	9.2	29 200	10.2	36 800	10.3	41 900	9.4	51 200	9.4	62 100	9.4	74 500	9.4
	55	-	-	22 900	15.7	29 100	15.7	33 500	14.3	41 400	14.4	50 600	14.4	61 100	14.3
SZ285	35	21 700	9.3	27 800	9.4	34 900	9.4	43 100	9.5	52 600	9.5	63 400	9.4	75 600	9.3
	55	-	-	21 400	14.2	27 500	14.2	34 500	14.3	42 600	14.4	51 900	14.4	62 400	14.3
SZ290	35	21 900	9.5	28 000	9.6	35 200	9.6	43 500	9.7	53 100	9.7	64 000	9.6	76 300	9.5
	55	-	-	21 600	14.4	27 700	14.5	34 800	14.6	43 000	14.6	52 300	14.6	62 900	14.6
SZ296	35	22 100	10.0	28 300	10.0	35 700	10.0	44 500	10.0	54 900	10.0	67 000	10.0	80 900	10.0
	55	-	-	22 000	15.4	28 000	15.4	35 200	15.4	43 500	15.5	53 300	15.5	64 700	15.6
SZ310	35	23 300	10.1	29 800	10.2	37 500	10.3	46 300	10.3	56 500	10.3	68 100	10.2	81 200	10.1
	55	-	-	23 000	15.4	29 500	15.5	37 100	15.5	45 800	15.6	55 700	15.6	67 000	15.6
SZ320	35	24 400	10.5	31 300	10.6	39 300	10.7	48 700	10.8	59 400	10.8	71 700	10.8	85 700	10.8
	55	-	-	24 200	15.8	31 000	15.9	39 000	16.0	48 200	16.1	58 700	16.2	70 700	16.2
SZ322	35	23 600	10.4	30 100	10.5	37 800	10.5	46 900	10.6	57 600	10.7	69 900	10.8	84 100	10.8
	55	-	-	23 800	15.9	30 200	16.0	37 800	16.1	46 600	16.2	56 900	16.2	68 900	16.2
SZ350	35	26 000	11.4	33 200	11.5	41 800	11.6	51 700	11.7	63 100	11.8	76 200	11.7	91 100	11.7
	55	-	-	25 700	17.1	33 000	17.3	41 400	17.4	51 200	17.5	62 400	17.5	75 100	17.5
SZ370	35	27 600	12.1	35 400	12.3	44 500	12.4	55 000	12.5	67 200	12.5	81 100	12.5	96 900	12.4
	55	-	-	27 400	18.2	35 100	18.4	44 100	18.5	54 500	18.6	66 400	18.7	79 900	18.6
SZ425	35	32 500	14.5	37 100	12.9	46 600	13.0	64 100	14.9	78 700	15.0	95 700	15.1	115 600	15.1
	55	-	-	28 700	19.9	36 700	20.0	51 300	21.9	63 400	22.1	77 500	22.2	93 900	22.3
SZ482	35	37 300	16.8	47 100	17.0	58 900	17.2	73 100	17.3	90 100	17.5	110 400	17.6	134 300	17.7
	55	-	-	37 100	24.6	46 900	24.9	58 500	25.2	72 300	25.5	88 600	25.7	107 800	26.0
SZ485	35	37 200	16.3	43 800	15.1	54 800	15.2	73 200	16.9	89 500	17.0	108 400	17.1	130 100	17.2
	55	-	-	33 800	23.3	43 200	23.4	58 600	24.9	72 300	25.2	88 300	25.5	106 800	25.8
SZ540	35	42 000	18.6	53 100	18.9	66 400	19.1	82 200	19.3	100 900	19.5	123 000	19.6	148 700	19.8
	55	-	-	41 800	27.5	52 800	27.9	65 800	28.3	81 200	28.6	99 400	29.0	120 700	29.4
SZ600	35	46 800	20.5	59 100	20.8	73 800	21.0	91 300	21.2	111 800	21.4	135 600	21.6	163 200	21.9
	55	-	-	46 500	30.3	58 600	30.8	73 000	31.3	90 100	31.8	110 200	32.3	133 600	32.8

Legend: **To:** Evaporating temperature in °C  
**Tc:** Condensing temperature in °C

**Qo:** Cooling capacity in W  
**Pe:** Power input in kW

Superheat = 11.1 K  
Subcooling = 8.3 K

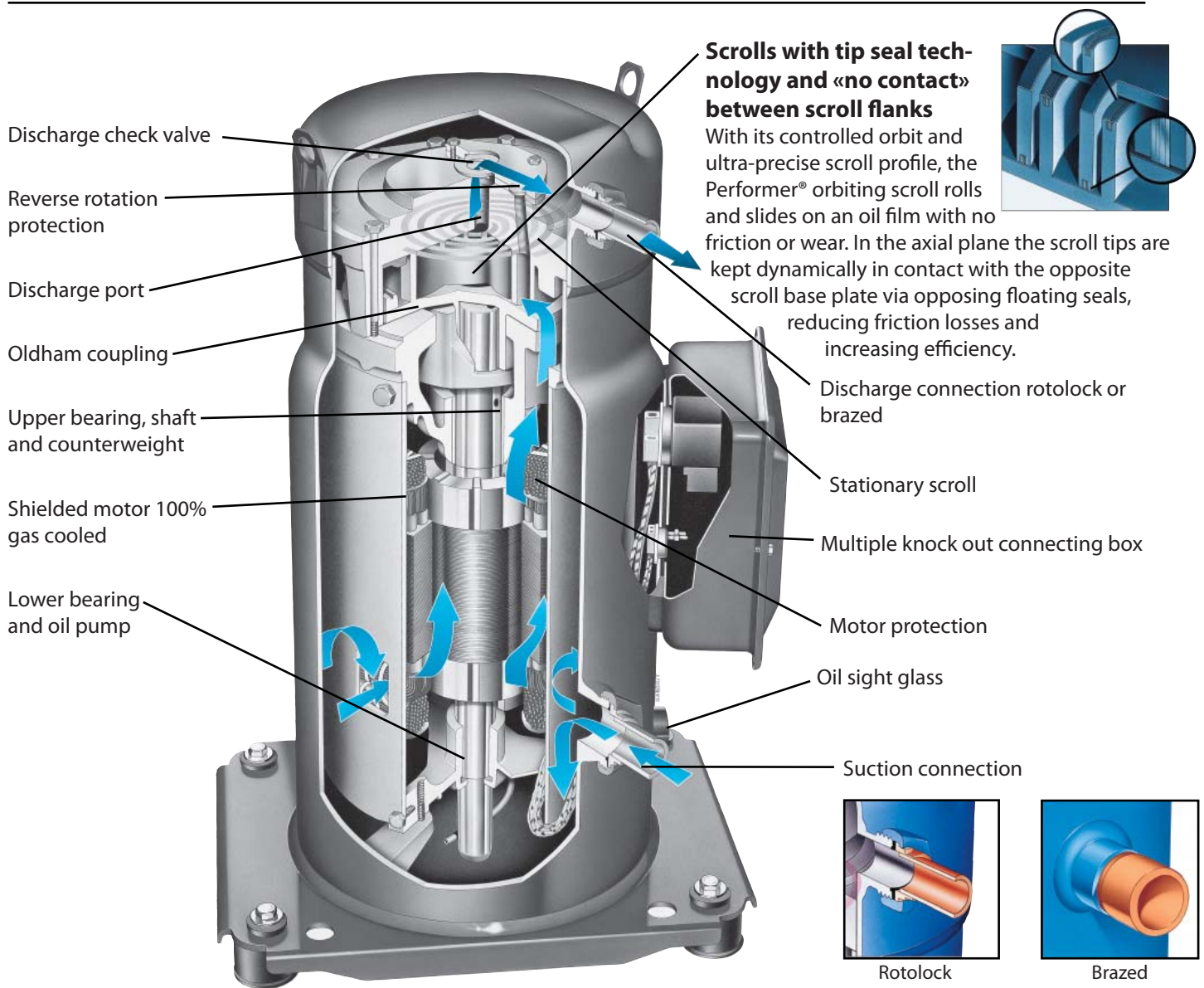
Voltage: 400 V / 3 / 50 Hz

**SZ R407C**
**Performance data**

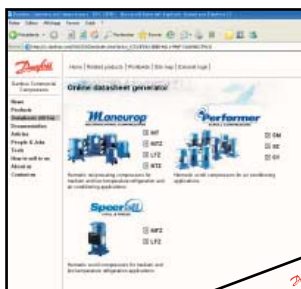
Model	To Tc	-20		-15		-10		-5		0		5		10		15	
		Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe
SZ084	35	7 200	3.9	9 300	3.9	11 800	4.0	14 800	4.0	18 300	4.0	22 300	4.0	27 000	4.0	32 300	3.9
	55	-	-	-	-	-	-	11 300	6.2	14 200	6.2	17 500	6.2	21 400	6.2	25 800	6.2
SZ090	35	7 600	4.1	9 800	4.1	12 500	4.2	15 600	4.2	19 300	4.2	23 600	4.2	28 500	4.2	34 100	4.1
	55	-	-	-	-	-	-	12 000	6.5	15 000	6.5	18 500	6.5	22 500	6.5	27 200	6.5
SZ100	35	8 100	4.3	10 500	4.4	13 300	4.4	16 600	4.4	20 500	4.5	25 000	4.4	30 100	4.4	36 000	4.4
	55	-	-	-	-	-	-	12 700	6.9	15 900	6.9	19 600	6.9	23 800	6.9	28 700	6.9
SZ110	35	9 300	4.9	12 000	5.0	15 200	5.0	19 000	5.0	23 400	5.0	28 500	5.0	34 300	5.0	40 900	4.9
	55	-	-	-	-	-	-	14 500	7.9	18 100	7.9	22 300	7.9	27 200	7.8	32 700	7.8
SZ115	35	10 100	5.4	13 100	5.4	16 600	5.4	20 800	5.5	25 600	5.4	31 100	5.4	37 400	5.4	44 500	5.3
	55	-	-	-	-	-	-	15 800	8.7	19 800	8.7	24 400	8.6	29 600	8.6	35 600	8.5
SZ120	35	11 000	5.7	14 200	5.7	17 900	5.8	22 200	5.8	27 300	5.8	33 200	5.8	39 900	5.7	47 600	5.6
	55	-	-	-	-	-	-	17 000	9.2	21 200	9.2	26 100	9.2	31 600	9.1	38 000	9.0
SZ125	35	10 800	5.7	14 000	5.7	17 700	5.7	22 100	5.7	27 200	5.7	33 100	5.7	39 800	5.7	47 400	5.6
	55	-	-	-	-	-	-	16 800	9.2	21 000	9.1	25 900	9.1	31 500	9.0	37 900	9.0
SZ148	35	13 500	6.9	17 300	7.0	21 700	7.0	27 000	7.0	33 100	7.1	40 300	7.1	48 500	7.1	57 800	7.2
	55	-	-	-	-	-	-	21 200	11.1	26 200	11.1	32 100	11.1	38 900	11.1	46 700	11.1
SZ160	35	14 800	7.3	19 000	7.4	23 900	7.5	29 700	7.6	36 400	7.6	44 300	7.6	53 300	7.6	63 600	7.6
	55	-	-	-	-	-	-	23 200	11.8	28 800	11.9	35 200	11.9	42 700	11.9	51 400	11.9
SZ161	35	14 600	7.4	18 700	7.5	23 500	7.5	29 200	7.6	35 800	7.6	43 500	7.6	52 400	7.7	62 600	7.8
	55	-	-	-	-	-	-	22 900	12.0	28 400	12.0	34 700	12.0	42 100	12.0	50 600	12.0
SZ175	35	15 500	8.0	19 800	8.0	25 000	8.1	31 100	8.2	38 100	8.2	46 300	8.2	55 600	8.2	66 200	8.2
	55	-	-	-	-	-	-	24 000	12.7	29 800	12.8	36 500	12.8	44 200	12.8	53 000	12.8
SZ185	35	16 600	8.6	21 300	8.6	26 900	8.7	33 400	8.8	41 000	8.8	49 700	8.8	59 700	8.8	71 100	8.8
	55	-	-	-	-	-	-	25 700	13.7	32 000	13.7	39 200	13.8	47 500	13.8	56 900	13.8
SZ240	35	22 400	11.7	28 800	11.8	36 400	11.9	45 300	12.1	55 800	12.2	67 900	12.4	81 800	12.5	97 800	12.6
	55	-	-	21 800	17.9	28 000	18.0	35 300	18.2	43 800	18.4	53 800	18.7	65 300	18.9	78 500	19.2
SZ300	35	28 600	13.7	36 100	13.9	45 000	14.1	55 400	14.3	67 500	14.5	81 600	14.7	97 800	14.9	116 300	15.2
	55	-	-	28 400	21.2	35 700	21.6	44 400	22.1	54 500	22.5	66 400	22.9	80 100	23.2	95 900	23.6
SZ380	35	36 000	16.9	45 300	17.3	56 400	17.6	69 400	18.0	84 600	18.3	102 200	18.6	122 400	18.9	145 400	19.4
	55	-	-	35 000	26.1	44 200	26.6	55 000	27.0	67 500	27.4	82 100	27.8	98 900	28.1	118 200	28.5
SZ170	35	14 200	7.8	18 300	7.9	23 200	8.0	29 100	8.0	36 000	8.0	44 000	8.0	53 200	8.0	63 700	7.9
	55	-	-	-	-	-	-	22 300	12.3	27 900	12.4	34 500	12.4	42 100	12.4	50 900	12.4
SZ180	35	15 000	8.2	19 400	8.3	24 600	8.3	30 800	8.4	38 000	8.4	46 400	8.4	56 100	8.3	67 100	8.2
	55	-	-	-	-	-	-	23 600	13.0	29 500	13.0	36 400	13.1	44 400	13.0	53 600	13.0
SZ200	35	16 000	8.7	20 600	8.8	26 100	8.8	32 700	8.9	40 300	8.9	49 200	8.9	59 300	8.8	70 900	8.7
	55	-	-	-	-	-	-	25 000	13.8	31 300	13.9	38 600	13.9	47 000	13.8	56 600	13.8
SZ220	35	18 400	9.9	23 700	9.9	30 000	10.0	37 400	10.1	46 100	10.1	56 100	10.0	67 500	10.0	80 600	9.8
	55	-	-	-	-	-	-	28 600	15.8	35 800	15.8	44 000	15.8	53 500	15.7	64 400	15.5
SZ230	35	20 000	10.8	25 800	10.8	32 800	10.9	40 900	10.9	50 400	10.9	61 200	10.9	73 700	10.8	87 700	10.7
	55	-	-	-	-	-	-	31 100	17.4	38 900	17.3	48 000	17.3	58 400	17.2	70 200	17.0
SZ242	35	21 600	11.4	27 900	11.5	35 200	11.6	43 800	11.6	53 800	11.6	65 400	11.5	78 600	11.4	93 700	11.2
	55	-	-	-	-	-	-	33 600	18.3	41 800	18.4	51 300	18.3	62 300	18.1	74 800	17.9
SZ250	35	21 200	11.4	27 500	11.4	34 900	11.5	43 500	11.5	53 600	11.5	65 200	11.4	78 300	11.4	93 300	11.3
	55	-	-	-	-	-	-	33 100	18.3	41 400	18.3	51 100	18.2	62 100	18.1	74 700	17.9
SZ268	35	24 100	12.6	31 000	12.7	39 000	12.8	48 500	12.9	59 500	12.9	72 300	12.9	87 000	12.9	103 800	12.8
	55	-	-	-	-	-	-	37 600	20.3	46 700	20.3	57 300	20.3	69 400	20.2	83 400	20.1
SZ271	35	23 600	12.4	30 200	12.5	38 100	12.6	47 400	12.6	58 300	12.6	70 900	12.7	85 400	12.7	102 000	12.7
	55	-	-	-	-	-	-	36 900	19.9	45 800	19.9	56 200	19.9	68 200	19.9	82 000	19.8
SZ281	35	25 200	13.1	32 300	13.2	40 800	13.3	50 700	13.4	62 200	13.4	75 600	13.4	90 900	13.4	108 500	13.4
	55	-	-	-	-	-	-	39 300	21.2	48 800	21.2	59 900	21.2	72 600	21.1	87 200	21.0
SZ285	35	25 200	13.0	32 400	13.2	41 000	13.3	51 000	13.3	62 700	13.3	76 200	13.3	91 700	13.3	109 300	13.2
	55	-	-	-	-	-	-	39 400	21.0	49 000	21.0	60 200	21.0	73 200	21.0	88 000	20.9
SZ290	35	25 200	13.4	32 500	13.5	41 000	13.5	51 100	13.6	62 800	13.7	76 200	13.7	91 600	13.6	109 000	13.5
	55	-	-	-	-	-	-	39 100	21.4	48 800	21.5	59 900	21.5	72 700	21.4	87 300	21.3
SZ296	35	26 600	13.8	34 000	13.9	42 800	14.0	53 200	14.1	65 300	14.2	79 300	14.2	95 500	14.3	114 000	14.4
	55	-	-	-	-	-	-	41 700	22.2	51 700	22.3	63 200	22.3	76 600	22.3	92 000	22.3
SZ310	35	27 000	14.2	34 700	14.4	43 900	14.5	54 700	14.5	67 200	14.6	81 600	14.6	98 000	14.5	116 700	14.4
	55	-	-	-	-	-	-	41 900	22.9	52 200	22.9	64 100	22.9	77 800	22.9	93 400	22.8
SZ320	35	29 200	14.7	37 300	14.9	47 000	15.0	58 400	15.1	71 800	15.2	87 200	15.2	105 000	15.2	125 400	15.2
	55	-	-	-	-	-	-	45 700	23.6	56 700	23.7	69 400	23.8	84 200	23.8	101 300	23.9
SZ322	35	28 700	14.9	36 800	15.0	46 300	15.1	57 500	15.1	70 600	15.2	85 800	15.3	103 300	15.4	123 300	15.5
	55	-	-	-	-	-	-	45 100	23.9	55 900	24.0	68 400	24.0	82 900	24.0	99 600	24.0
SZ350	35	30 500	15.9	39 100	16.1	49 300	16.2	61 200	16.3	75 200	16.4	91 200	16.4	109 500	16.4	130 300	16.4
	55	-	-	-	-	-	-	47 200	25.4	58 600	25.6	71 900	25.6	87 100	25.7	104 400	25.7
SZ370	35	32 700	17.1	42 000	17.3	52 900	17.4	65 800	17.5	80 700	17.6	98 000	17.7	117 700	17.7	140 000	17.6
	55	-	-	-	-	-	-	50 700	27.4	63 000	27.5	77 200	27.6	93 500	27.6	112 100	27.6
SZ425	35	38 400	20.2	49 400	20.4	62 300	20.7	77 500	20.9	95 300	21.1	115 800	21.2	139 400	21.4	166 400	21.5
	55	-	-	-	-	-	-	60 100	31.9	74 700	32.2	91 600	32.5	111 100	32.8	133 400	33.0
SZ482	35	44 100	23.4	56 700	23.6	71 700	23.9	89 300	24.2	109 800	24.5	133 700	24.8	161 200	25.0	192 700	25.3
	55	-	-	-	-	-	-	69 500	36.4	86 300	36.8	105 900	37.3	128 600	37.9	154 700	38.4
SZ485	35	44 600	22.2	56 600	22.5	70 800	22.8	87 400	23.1	106 800	23.3	129 300	23.5	155 100	23.8	184 600	24.0
	55	-	-	-	-	-	-	69 100	35.7	85 200	36.2	104 000	36.6	125 700	37.0	150 600	37.4
SZ540	35	50 300	25.4	64 000	25.7	80 100	26.0	99 200	26.4	121 400	26.7	147 200	27.1	176 900	27.5	210 900	27.8
	55	-	-	49 400	39.1	62 800	39.6	78 500	40.3	96 900	40.9	118 300</					



## Performer® technology



## Further reference



For more exhaustive information on Performer® scroll compressors, please refer to the following documents:

### Online datasheet generator

[www.danfoss.com/odsg](http://www.danfoss.com/odsg)

A tool providing user-friendly access to full technical data, performance data and outline drawings for each individual compressor.

### Selection and application guidelines for Performer® single

Literature: FRCC.PC.003.A1.02 - March 2005

With performance data, operating envelopes, electrical data, installation and application information for Performer® SM, SY and SZ compressors.



### Selection and application guidelines for Performer® compressors in parallel installation

Literature: FRCC.PC.005.A1.02 - November 2005

With performance data, operating envelopes, installation and application information for Performer® SM, SY and SZ compressors.

Above documents and datasheet generator are available on the Danfoss Commercial Compressors internet website: <http://cc.danfoss.com>

## **Danfoss Commercial Compressors** <http://cc.danfoss.com>

---

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Performer® Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

---