

Quick Reference

Scroll Compressors SM - SY - SZ

R22 - R134a - R407C

60 Hz
data

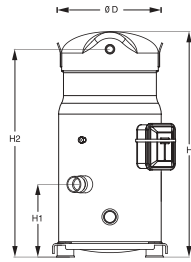


 **Performer**[®]
SCROLL COMPRESSORS

Product range single compressor

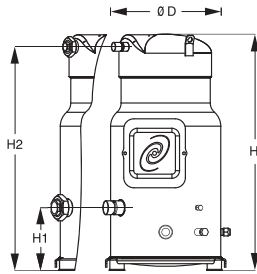
	D	H	H1	H2
S084 S090 S100	254	508	142	465
S110 S120	254	558	178	515
S148 S161	266	591	180	556

All dimensions in mm



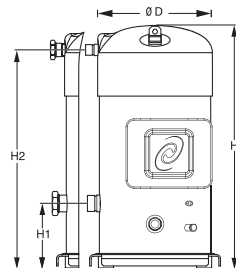
	D	H	H1	H2
S115 S125	254	586	180	538
S160	266	631	180	596
S175 S185	316	678	180	641

All dimensions in mm



	D	H	H1	H2
S240	344	729	196	656
S300	344	740	196	667

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
Model	Motor voltage code				
	3	4	6	7	9
SM / SZ 084	●	●	●	●	●
SM / SZ 090	●	●	●	●	●
SM / SZ 100	●	●	●	●	●
SM / SZ 110	●	●	●	●	●
SM / SZ 115	●●	●●	●●	●●	●●
SM / SZ 120	●	●	●	●	●
SM / SZ 125	●●	●●	●●	●●	●●
SM / SZ 148	●	●	●	●	●
SM / SZ 160	●●	●●	●●	●●	●●
SM / SZ 161	●	●	●	●	●
SM / SZ 175	●●	●●	●●	●●	●●
SM / SZ 185	●●	●●	●●	●●	●●
SY / SZ 240	●●	●●	●●	●●	●●
SY / SZ 300	●●	●●	●●	●●	●●

● Rotolock version - ● Brazed version

Family, lubricant & refrigerant	Nominal capacity	Voltage	Version	Packaging
SZ	185	4	R	I
SY	300	9	AA	M

Family, lubricant & refrigerant

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

Nominal capacity

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

Voltage

Motor voltage code: Refer to above table

Packaging
I: Individual
M: Multiple

Version

Motor protection type

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 R RA	C C R R	Brazed Brazed Rotolock Rotolock	A A A	Evolution index Evolution index	S 115 - 125 - 160 175 - 185
Electronic protection module	AA AB MA MB	A A M M	Brazed Brazed Rotolock Rotolock	A B A B	24V 115/230V 24V 115/230V	S 240 S 300

SM / SY R22
PERFORMANCE DATA

Model	To	- 20°C		- 15°C		- 10°C		- 5°C		0°C		5°C		10°C		15°C	
		Tc	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo
SM084	35	9 600	4.8	12 200	4.8	15 200	4.8	18 700	4.9	22 600	4.9	27 100	4.9	32 100	4.9	37 800	4.9
	45	-	-	10 800	6.0	13 700	6.0	17 000	6.0	20 700	6.0	25 000	6.0	29 800	6.0	35 200	6.0
	55	-	-	-	-	-	-	15 000	7.5	18 500	7.5	22 500	7.5	27 000	7.4	32 100	7.4
SM090	35	10 600	5.2	13 300	5.2	16 500	5.3	20 200	5.3	24 500	5.4	29 400	5.4	34 900	5.4	41 100	5.4
	45	-	-	11 900	6.4	14 900	6.5	18 400	6.5	22 400	6.5	26 900	6.5	32 100	6.5	37 900	6.5
	55	-	-	-	-	-	-	16 400	7.9	20 000	7.9	24 200	7.9	28 900	7.9	34 300	7.9
SM100	35	11 200	5.4	14 100	5.5	17 400	5.5	21 300	5.5	25 700	5.6	30 700	5.6	36 400	5.6	42 700	5.6
	45	-	-	12 600	6.7	15 700	6.7	19 300	6.7	23 500	6.8	28 100	6.8	33 400	6.8	39 300	6.8
	55	-	-	-	-	-	-	17 200	8.3	21 000	8.3	25 300	8.3	30 100	8.2	35 600	8.2
SM110	35	12 800	6.2	16 100	6.2	20 000	6.3	24 400	6.3	29 500	6.3	35 200	6.4	41 600	6.4	48 800	6.4
	45	-	-	14 500	7.6	18 100	7.7	22 200	7.7	26 900	7.7	32 300	7.7	38 300	7.7	45 000	7.8
	55	-	-	-	-	-	-	19 800	9.5	24 100	9.5	29 000	9.5	34 500	9.5	40 700	9.4
SM115	35	14 200	6.5	17 900	6.5	22 000	6.6	26 500	6.6	31 500	6.7	37 000	6.7	43 000	6.8	49 400	6.8
	45	-	-	15 900	8.1	19 900	8.2	24 300	8.2	29 100	8.2	34 300	8.3	40 000	8.3	46 200	8.3
	55	-	-	-	-	-	-	21 600	10.2	26 200	10.2	31 200	10.2	36 600	10.2	42 500	10.2
SM120	35	15 000	7.1	18 800	7.1	23 300	7.2	28 400	7.2	34 200	7.2	40 800	7.3	48 300	7.3	56 600	7.4
	45	-	-	16 900	8.8	21 000	8.8	25 800	8.9	31 300	8.9	37 500	8.9	44 400	8.9	52 200	9.0
	55	-	-	-	-	-	-	23 000	10.9	28 000	10.9	33 700	10.9	40 100	10.9	47 300	10.9
SM125	35	15 500	7.0	19 600	7.1	24 100	7.2	29 100	7.2	34 600	7.3	40 600	7.3	47 100	7.4	54 200	7.4
	45	-	-	17 400	8.9	21 800	8.9	26 600	8.9	31 900	9.0	37 700	9.0	43 900	9.0	50 700	9.0
	55	-	-	-	-	-	-	23 700	11.1	28 700	11.1	34 200	11.1	40 200	11.1	46 600	11.1
SM148	35	18 100	8.3	22 600	8.4	27 800	8.5	33 800	8.6	40 600	8.7	48 500	8.8	57 400	8.9	67 500	9.0
	45	-	-	20 400	10.3	25 300	10.4	30 800	10.5	37 200	10.6	44 600	10.7	52 900	10.8	62 400	10.9
	55	-	-	-	-	-	-	27 600	12.9	33 500	13.0	40 300	13.1	48 000	13.2	56 700	13.3
SM160	35	19 200	9.2	24 200	9.4	29 900	9.5	36 500	9.7	43 900	9.8	52 400	10.0	61 900	10.1	72 500	10.2
	45	-	-	22 000	11.3	27 400	11.5	33 600	11.6	40 600	11.8	48 600	11.9	57 600	12.0	67 600	12.1
	55	-	-	-	-	-	-	29 900	14.0	36 400	14.2	43 800	14.3	52 200	14.4	61 600	14.5
SM161	35	19 700	9.0	24 600	9.1	30 200	9.2	36 700	9.3	44 200	9.4	52 700	9.5	62 400	9.6	73 300	9.7
	45	-	-	22 200	11.1	27 400	11.3	33 500	11.4	40 500	11.5	48 500	11.6	57 500	11.7	67 800	11.8
	55	-	-	-	-	-	-	30 000	14.0	36 400	14.1	43 800	14.2	52 100	14.3	61 600	14.4
SM175	35	21 100	9.8	26 400	10.0	32 500	10.1	39 500	10.3	47 500	10.5	56 500	10.6	66 600	10.7	77 800	10.8
	45	-	-	23 700	12.1	29 400	12.2	36 000	12.4	43 500	12.6	52 000	12.7	61 500	12.8	72 100	13.0
	55	-	-	-	-	-	-	32 200	15.1	39 200	15.2	47 000	15.4	55 800	15.5	65 600	15.7
SM185	35	22 500	10.4	28 100	10.6	34 600	10.8	42 000	10.9	50 500	11.1	60 100	11.2	70 800	11.4	82 800	11.5
	45	-	-	25 200	12.8	31 300	13.0	38 300	13.2	46 300	13.4	55 300	13.5	65 400	13.6	76 700	13.8
	55	-	-	-	-	-	-	34 300	16.0	41 700	16.2	50 000	16.3	59 300	16.5	69 800	16.6
SY240	35	30 600	14.0	38 200	14.2	47 100	14.4	57 300	14.8	69 100	15.1	82 500	15.6	97 600	16.2	114 800	16.8
	45	-	-	34 500	17.2	42 700	17.4	52 200	17.7	63 100	18.1	75 500	18.5	89 700	19.0	105 600	19.6
	55	-	-	-	-	-	-	46 700	21.4	56 700	21.7	68 100	22.2	81 000	22.6	95 700	23.2
SY300	35	39 800	16.4	49 400	16.9	60 600	17.4	73 600	18.0	88 500	18.6	105 600	19.2	125 000	19.9	146 900	20.6
	45	-	-	44 500	20.6	54 800	21.1	66 800	21.8	80 600	22.4	96 500	23.2	114 600	24.0	135 000	24.8
	55	-	-	-	-	-	-	59 600	26.0	72 300	26.6	86 800	27.4	103 400	28.3	122 300	29.2
SM170	35	18 900	9.5	24 000	9.6	29 900	9.7	36 800	9.7	44 500	9.8	53 300	9.8	63 300	9.8	74 400	9.9
	45	-	-	21 200	12.0	26 900	12.0	33 400	12.1	40 800	12.1	49 200	12.1	58 700	12.1	69 300	12.0
	55	-	-	-	-	-	-	29 500	15.0	36 400	15.0	44 300	15.0	53 300	14.9	63 300	14.8
SM180	35	20 900	10.4	26 200	10.5	32 600	10.6	39 900	10.6	48 300	10.7	57 900	10.8	68 700	10.8	80 900	10.8
	45	-	-	23 500	12.8	29 400	12.9	36 200	13.0	44 100	13.0	53 000	13.0	63 200	13.0	74 600	13.0
	55	-	-	-	-	-	-	32 300	15.8	39 400	15.9	47 600	15.8	57 000	15.8	67 500	15.7
SM200	35	22 000	10.8	27 700	10.9	34 300	11.0	41 900	11.1	50 600	11.2	60 500	11.2	71 700	11.2	84 200	11.3
	45	-	-	24 800	13.3	31 000	13.4	38 100	13.5	46 200	13.5	55 400	13.5	65 800	13.5	77 500	13.5
	55	-	-	-	-	-	-	34 000	16.5	41 400	16.5	49 800	16.5	59 400	16.4	70 100	16.4
SM220	35	25 300	12.3	31 800	12.4	39 400	12.5	48 100	12.6	58 000	12.7	69 300	12.7	82 000	12.8	96 200	12.8
	45	-	-	28 500	15.3	35 600	15.3	43 700	15.4	53 000	15.4	63 500	15.5	75 400	15.5	88 700	15.5
	55	-	-	-	-	-	-	39 000	18.9	47 500	18.9	57 100	18.9	68 000	18.9	80 300	18.9
SM230	35	27 900	12.9	35 200	13.0	43 300	13.1	52 300	13.2	62 100	13.3	72 900	13.4	84 600	13.5	97 300	13.6
	45	-	-	31 300	16.3	39 200	16.3	47 800	16.4	57 300	16.5	67 600	16.5	78 900	16.5	91 000	16.6
	55	-	-	-	-	-	-	42 600	20.4	51 600	20.4	61 500	20.4	72 100	20.4	83 700	20.3
SM242	35	29 500	14.2	37 100	14.2	45 800	14.3	55 900	14.4	67 400	14.5	80 400	14.6	95 100	14.7	111 400	14.8
	45	-	-	33 200	17.6	41 500	17.6	50 900	17.7	61 700	17.7	73 800	17.8	87 500	17.9	102 900	17.9
	55	-	-	-	-	-	-	45 300	21.8	55 200	21.8	66 400	21.9	79 100	21.9	93 200	21.9
SM250	35	30 600	14.1	38 600	14.2	47 500	14.3	57 400	14.4	68 200	14.5	80 000	14.6	92 800	14.7	106 700	14.8
	45	-	-	34 300	17.8	43 000	17.8	52 500	17.9	62 900	17.9	74 200	18.0	86 500	18.0	99 900	18.1
	55	-	-	-	-	-	-	46 700	22.3	56 600	22.3	67 400	22.3	79 200	22.2	91 800	22.2
SM285	35	34 300	16.2	43 100	16.5	53 200	16.7	64 600	16.9	77 400	17.1	91 600	17.3	107 400	17.5	124 800	17.6
	45	-	-	38 800	20.2	48 400	20.4	59 300	20.6	71 400	20.8	85 000	20.9	100 000	21.1	116 500	21.2
	55	-	-	-	-	-	-	52 800	25.2	64 200	25.3	76 900	25.5	91 000	25.6	106 600	25.6
SM290	35	34 800	16.3	43 600	16.5	53 700											

SZ R134a

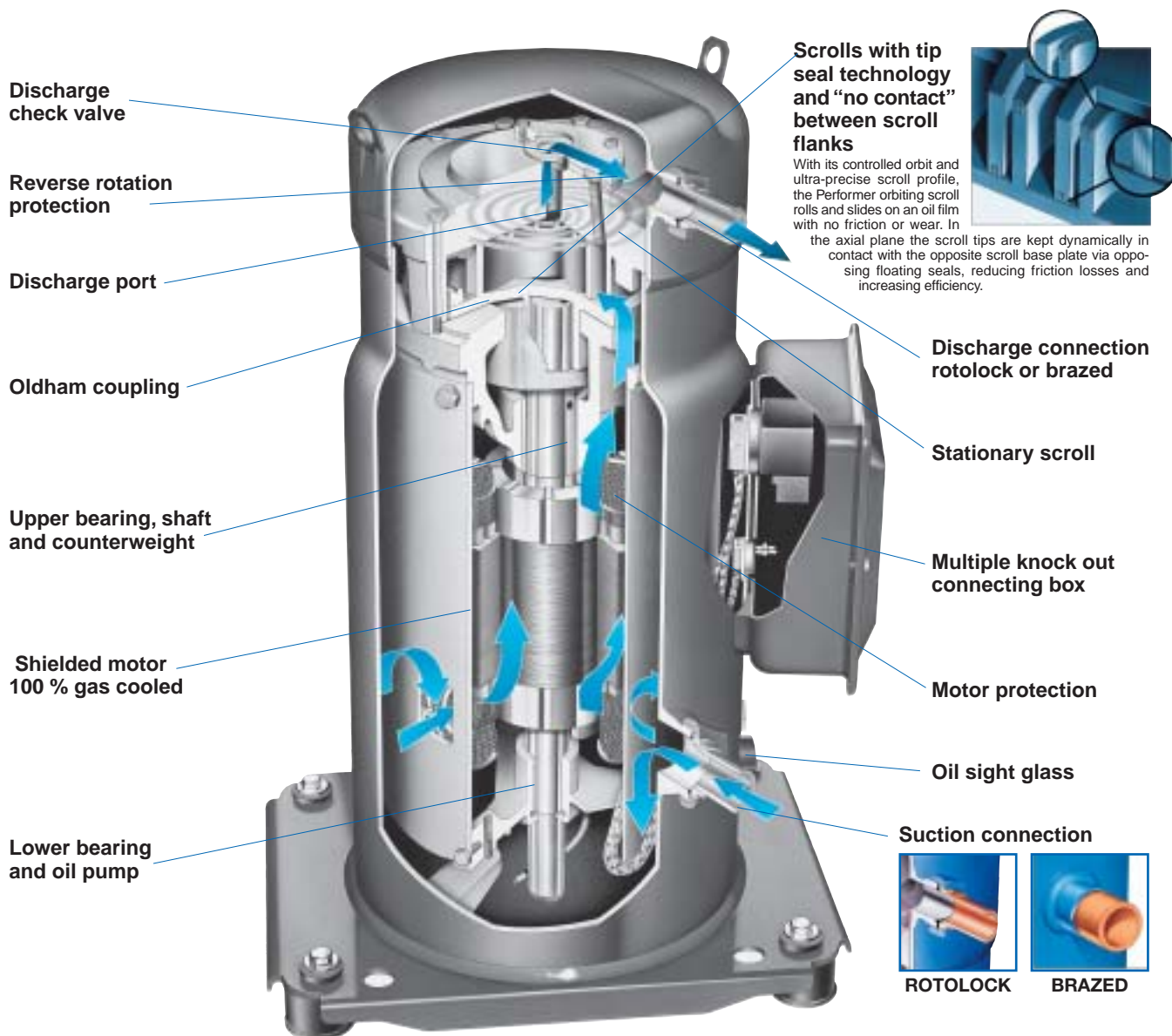
PERFORMANCE DATA

Model	To Tc	- 15°C		- 10°C		- 5°C		0°C		5°C		10°C		15°C	
		Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe.	Qo	Pe	Qo	Pe	Qo	Pe
SZ084	35	7 800	3.3	9 800	3.3	12 300	3.3	15 300	3.3	18 700	3.3	22 700	3.3	27 200	3.2
	45	7 000	4.0	8 900	4.1	11 200	4.1	13 900	4.1	17 100	4.1	20 700	4.1	25 000	4.1
	55	-	-	7 800	5.0	9 900	5.1	12 300	5.1	15 200	5.1	18 500	5.1	22 400	5.1
SZ090	35	8 200	3.5	10 400	3.5	13 100	3.5	16 100	3.5	19 700	3.5	23 900	3.5	28 600	3.4
	45	7 400	4.2	9 400	4.3	11 800	4.3	14 700	4.3	18 000	4.3	21 900	4.3	26 300	4.3
	55	-	-	8 300	5.3	10 500	5.3	13 000	5.4	16 000	5.4	19 500	5.4	23 600	5.4
SZ100	35	8 800	3.6	11 100	3.7	13 900	3.7	17 100	3.7	20 900	3.7	25 300	3.7	30 200	3.7
	45	7 800	4.5	10 000	4.5	12 600	4.6	15 600	4.6	19 100	4.6	23 100	4.6	27 800	4.6
	55	-	-	8 800	5.6	11 100	5.6	13 800	5.7	17 000	5.7	20 700	5.7	24 900	5.7
SZ110	35	10 100	4.1	12 800	4.2	15 900	4.2	19 600	4.3	23 800	4.3	28 700	4.3	34 300	4.3
	45	9 000	5.1	11 500	5.1	14 400	5.2	17 800	5.2	21 800	5.3	26 300	5.3	31 500	5.3
	55	-	-	10 000	6.3	12 700	6.4	15 800	6.4	19 400	6.5	23 600	6.5	28 300	6.5
SZ115	35	11 100	4.6	14 000	4.7	17 500	4.7	21 600	4.8	26 300	4.8	31 800	4.8	38 000	4.7
	45	9 800	5.6	12 500	5.7	15 800	5.8	19 600	5.8	24 000	5.8	29 100	5.8	34 900	5.8
	55	-	-	10 900	7.0	13 900	7.1	17 400	7.1	21 400	7.1	26 100	7.1	31 500	7.1
SZ120	35	11 900	4.8	15 000	4.9	18 600	4.9	22 800	5.0	27 700	5.0	33 300	5.0	39 600	5.0
	45	10 500	5.9	13 400	6.0	16 800	6.0	20 800	6.1	25 300	6.1	30 500	6.1	36 400	6.1
	55	-	-	11 700	7.3	14 800	7.4	18 400	7.5	22 600	7.5	27 400	7.5	32 800	7.5
SZ125	35	11 500	4.8	14 600	4.9	18 300	4.9	22 600	5.0	27 500	5.0	33 200	5.0	39 700	4.9
	45	10 200	5.9	13 100	5.9	16 500	6.0	20 500	6.0	25 100	6.1	30 400	6.1	36 500	6.0
	55	-	-	11 400	7.3	14 500	7.3	18 100	7.4	22 400	7.4	27 300	7.4	32 900	7.4
SZ160	35	15 300	6.2	19 300	6.3	24 100	6.4	29 600	6.5	36 100	6.5	43 600	6.6	52 000	6.6
	45	13 600	7.6	17 300	7.7	21 700	7.8	26 900	7.8	33 000	7.9	39 900	8.0	47 800	8.0
	55	-	-	15 100	9.3	19 100	9.5	23 900	9.6	29 400	9.7	35 800	9.7	43 100	9.8
SZ161	35	14 600	6.2	18 600	6.3	23 300	6.4	28 800	6.5	35 300	6.5	42 800	6.5	51 400	6.5
	45	13 000	7.6	16 700	7.7	21 000	7.8	26 100	7.9	32 000	8.0	38 900	8.0	46 800	8.0
	55	-	-	14 700	9.4	18 700	9.6	23 300	9.7	28 600	9.8	34 900	9.8	42 000	9.8
SZ175	35	16 300	6.8	20 500	6.9	25 600	6.9	31 500	7.0	38 400	7.1	46 300	7.1	55 300	7.1
	45	14 400	8.2	18 400	8.3	23 100	8.4	28 600	8.5	35 000	8.6	42 400	8.6	50 800	8.7
	55	-	-	16 100	10.1	20 300	10.3	25 400	10.4	31 200	10.5	38 000	10.6	45 800	10.6
SZ185	35	17 300	7.2	21 900	7.3	27 200	7.4	33 500	7.5	40 900	7.6	49 300	7.6	58 900	7.6
	45	15 300	8.8	19 600	8.9	24 600	9.0	30 500	9.1	37 300	9.2	45 100	9.2	54 100	9.3
	55	-	-	17 100	10.8	21 700	11.0	27 000	11.1	33 300	11.2	40 500	11.3	48 800	11.4
SZ170	35	15 300	6.6	19 400	6.6	24 300	6.6	30 100	6.6	36 800	6.6	44 700	6.6	53 600	6.5
	45	13 700	8.1	17 500	8.1	22 000	8.2	27 400	8.2	33 600	8.2	40 900	8.2	49 200	8.2
	55	-	-	15 400	10.0	19 500	10.1	24 300	10.2	29 900	10.2	36 500	10.3	44 100	10.3
SZ180	35	16 200	6.9	20 500	7.0	25 700	7.0	31 800	7.0	38 900	7.0	47 100	7.0	56 400	6.9
	45	14 500	8.5	18 500	8.6	23 300	8.6	28 900	8.7	35 500	8.7	43 100	8.7	51 800	8.6
	55	-	-	16 300	10.6	20 600	10.6	25 700	10.7	31 600	10.8	38 500	10.8	46 500	10.8
SZ200	35	17 200	7.3	21 800	7.4	27 300	7.4	33 700	7.4	41 200	7.4	49 800	7.4	59 600	7.4
	45	15 400	9.0	19 700	9.1	24 700	9.1	30 700	9.2	37 600	9.2	45 600	9.2	54 700	9.2
	55	-	-	17 300	11.2	21 800	11.3	27 200	11.3	33 500	11.4	40 800	11.4	49 100	11.4
SZ220	35	19 900	8.3	25 100	8.4	31 300	8.4	38 600	8.5	47 000	8.5	56 600	8.5	67 500	8.5
	45	17 700	10.2	22 600	10.3	28 400	10.4	35 100	10.5	42 900	10.5	51 800	10.5	62 000	10.5
	55	-	-	19 800	12.7	25 000	12.8	31 200	12.9	38 300	13.0	46 400	13.0	55 800	13.0
SZ230	35	21 800	9.2	27 600	9.4	34 500	9.5	42 600	9.5	51 900	9.6	62 700	9.6	74 900	9.5
	45	19 200	11.2	24 700	11.4	31 100	11.5	38 600	11.6	47 300	11.6	57 400	11.6	68 800	11.6
	55	-	-	21 500	14.0	27 400	14.1	34 200	14.2	42 200	14.3	51 400	14.3	62 000	14.3
SZ242	35	23 300	9.6	29 500	9.7	36 700	9.8	45 000	9.9	54 600	10.0	65 500	10.0	77 900	10.0
	45	20 700	11.8	26 400	11.9	33 100	12.0	40 900	12.1	49 900	12.2	60 100	12.3	71 700	12.3
	55	-	-	23 100	14.7	29 200	14.8	36 300	14.9	44 500	15.0	53 900	15.1	64 600	15.1
SZ250	35	22 700	9.6	28 800	9.7	36 000	9.9	44 400	9.9	54 200	10.0	65 400	10.0	78 300	9.9
	45	20 100	11.7	25 800	11.9	32 500	12.0	40 300	12.1	49 400	12.1	59 900	12.1	71 900	12.1
	55	-	-	22 500	14.5	28 600	14.7	35 700	14.8	44 100	14.9	53 700	14.9	64 700	14.8
SZ285	35	26 500	11.0	33 500	11.2	41 700	11.3	51 400	11.4	62 700	11.5	75 600	11.5	90 400	11.5
	45	23 400	13.4	29 900	13.6	37 700	13.8	46 700	13.9	57 200	14.0	69 300	14.0	83 100	14.0
	55	-	-	26 100	16.6	33 100	16.8	41 400	17.0	51 000	17.1	62 100	17.2	74 800	17.2
SZ290	35	26 900	11.4	34 000	11.5	42 500	11.7	52 300	11.8	63 800	11.9	76 900	11.9	92 000	11.9
	45	23 800	13.8	30 500	14.0	38 300	14.2	47 500	14.3	58 200	14.4	70 500	14.5	84 500	14.5
	55	-	-	26 600	17.1	33 700	17.3	42 100	17.5	51 900	17.6	63 200	17.7	76 100	17.8
SZ310	35	28 400	12.0	36 000	12.2	44 800	12.3	55 300	12.5	67 300	12.5	81 300	12.6	97 100	12.6
	45	25 200	14.6	32 200	14.8	40 500	15.0	50 200	15.1	61 400	15.2	74 400	15.3	89 300	15.3
	55	-	-	28 100	18.1	35 600	18.3	44 500	18.5	54 800	18.6	66 700	18.7	80 400	18.8
SZ320	35	30 200	12.4	38 100	12.6	47 400	12.8	58 400	12.9	71 100	13.0	85 800	13.1	102 500	13.1
	45	26 700	15.1	34 100	15.3	42 800	15.5	53 000	15.7	64 900	15.8	78 600	15.9	94 200	16.0
	55	-	-	29 800	18.7	37 700	18.9	47 000	19.1	57 900	19.3	70 500	19.5	84 900	19.6
SZ322	35	28 800	12.4	36 600	12.7	45 900	12.8	56 800	13.0	69 500	13.0	84 300	13.1	101 300	13.0
	45	25 700	15.2	32 900	15.5	41 400	15.7	51 400	15.9	63 100	16.0	76 700	16.0	92 300	16.0
	55	-	-	29 000	18.9	36 700	19.2	45 800	19.4	56 400	19.5	68 700	19.6	82 800	19.7
SZ350	35	32 100	13.5	40 500	13.7	50 400	13.9	62 100	14.0	75 600	14.1	91 200	14.2	109 000	14.2
	45	28 400	16.4	36 200	16.6	45 500	16.8	56 400	17.0	69 000	17.2	83 500	17.3	100 200	17.4
	55	-	-	31 600	20.2	40 100	20.5	50 000	20.7	61 500	20.9	74 900	21.1	90 200	21.3
SZ370	35														

SZ R407C
PERFORMANCE DATA

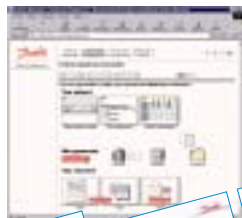
Model	To	- 20°C		- 15°C		- 10°C		- 5°C		0°C		5°C		10°C		15°C	
	Tc	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe	Qo	Pe
SZ084	35	8 400	4.5	11 100	4.5	14 300	4.5	17 900	4.5	22 000	4.5	26 700	4.5	32 000	4.4	37 900	4.3
	45	-	-	9 100	5.6	12 100	5.7	15 500	5.7	19 400	5.7	23 900	5.7	28 800	5.6	34 400	5.5
	55	-	-	-	-	-	-	12 600	7.2	16 200	7.2	20 300	7.2	25 000	7.1	30 100	7.1
SZ090	35	9 200	4.8	12 000	4.9	15 300	4.9	19 100	4.9	23 500	5.0	28 500	4.9	34 200	4.9	40 700	4.8
	45	-	-	10 200	6.1	13 300	6.1	16 800	6.2	20 900	6.2	25 600	6.2	30 900	6.2	36 900	6.1
	55	-	-	-	-	-	-	14 100	7.7	17 800	7.7	22 100	7.7	27 000	7.7	32 500	7.7
SZ100	35	10 000	5.2	12 900	5.2	16 400	5.3	20 400	5.4	25 100	5.4	30 600	5.4	36 800	5.4	43 800	5.4
	45	-	-	11 400	6.5	14 600	6.6	18 300	6.6	22 600	6.7	27 600	6.7	33 300	6.7	39 700	6.7
	55	-	-	-	-	-	-	15 800	8.2	19 700	8.2	24 100	8.3	29 200	8.3	35 000	8.3
SZ110	35	11 500	5.8	14 800	5.9	18 700	6.0	23 300	6.1	28 600	6.1	34 700	6.1	41 700	6.1	49 600	6.0
	45	-	-	13 000	7.4	16 600	7.5	20 800	7.5	25 700	7.6	31 300	7.6	37 700	7.5	45 000	7.5
	55	-	-	-	-	-	-	18 000	9.4	22 400	9.4	27 400	9.4	33 200	9.4	39 700	9.3
SZ115	35	12 700	6.5	16 200	6.6	20 500	6.6	25 500	6.7	31 300	6.7	38 000	6.7	45 700	6.6	54 400	6.5
	45	-	-	14 300	8.1	18 200	8.2	22 800	8.2	28 100	8.3	34 200	8.3	41 300	8.2	49 300	8.1
	55	-	-	-	-	-	-	19 600	10.3	24 300	10.4	29 800	10.4	36 200	10.3	43 400	10.3
SZ120	35	13 500	6.8	17 300	6.9	21 800	6.9	27 000	7.0	33 100	7.0	40 100	7.0	48 100	7.0	57 100	6.9
	45	-	-	15 200	8.6	19 300	8.6	24 200	8.7	29 800	8.7	36 200	8.7	43 600	8.7	51 900	8.6
	55	-	-	-	-	-	-	20 900	10.9	25 900	10.9	31 700	10.9	38 300	10.9	45 900	10.8
SZ125	35	13 500	6.9	17 300	7.0	21 800	7.1	27 100	7.1	33 300	7.1	40 400	7.1	48 600	7.0	57 900	6.9
	45	-	-	15 200	8.7	19 300	8.7	24 200	8.8	29 900	8.8	36 400	8.8	43 900	8.7	52 400	8.6
	55	-	-	-	-	-	-	20 900	11.0	25 900	11.1	31 700	11.1	38 500	11.0	46 100	10.9
SZ148	35	16 500	8.3	21 100	8.4	26 400	8.5	32 700	8.7	40 000	8.8	48 500	8.9	58 300	8.9	69 500	8.9
	45	-	-	18 700	10.5	23 700	10.6	29 400	10.7	36 100	10.8	43 900	10.9	52 900	11.0	63 200	11.1
	55	-	-	-	-	-	-	25 800	13.3	31 800	13.4	38 800	13.5	46 900	13.6	56 200	13.7
SZ160	35	17 600	8.9	22 500	9.1	28 200	9.2	35 000	9.4	42 900	9.4	52 000	9.5	62 400	9.4	74 200	9.3
	45	-	-	19 900	11.2	25 200	11.3	31 500	11.5	38 700	11.6	47 100	11.6	56 700	11.6	67 600	11.5
	55	-	-	-	-	-	-	27 400	14.0	33 900	14.2	41 500	14.2	50 100	14.3	60 000	14.2
SZ161	35	17 800	8.9	22 700	9.0	28 500	9.1	35 300	9.2	43 200	9.3	52 300	9.4	62 900	9.6	75 000	9.7
	45	-	-	20 200	11.2	25 500	11.4	31 700	11.5	39 000	11.6	47 400	11.7	57 100	11.8	68 200	11.9
	55	-	-	-	-	-	-	27 900	14.3	34 400	14.4	41 900	14.5	50 600	14.6	60 700	14.6
SZ175	35	19 300	9.5	24 600	9.6	30 800	9.8	38 000	9.9	46 500	10.0	56 300	10.1	67 500	10.1	80 200	10.1
	45	-	-	21 600	11.9	27 300	12.1	34 000	12.2	41 700	12.3	50 700	12.4	61 000	12.5	72 700	12.6
	55	-	-	-	-	-	-	29 400	15.1	36 300	15.3	44 300	15.4	53 600	15.5	64 100	15.6
SZ185	35	20 600	10.2	26 100	10.4	32 700	10.5	40 500	10.6	49 500	10.7	59 900	10.8	71 800	10.9	85 400	10.9
	45	-	-	22 900	12.8	29 000	13.0	36 100	13.1	44 400	13.3	53 900	13.4	64 900	13.5	77 300	13.5
	55	-	-	-	-	-	-	31 300	16.3	38 600	16.4	47 200	16.6	57 000	16.7	68 200	16.8
SZ240	35	26 900	14.0	34 700	14.3	43 900	14.7	54 700	15.0	67 300	15.3	81 900	15.6	98 700	15.9	117 900	16.2
	45	23 600	16.9	30 700	17.4	39 100	17.7	48 800	18.1	60 200	18.5	73 400	18.8	88 700	19.1	106 100	19.4
	55	-	-	26 600	21.2	34 200	21.6	42 900	22.1	53 100	22.4	64 800	22.8	78 400	23.1	94 000	23.4
SZ300	35	35 800	16.7	44 900	17.1	55 700	17.4	68 400	17.8	83 500	18.1	101 300	18.4	122 000	18.7	146 100	19.1
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	55	-	-	34 300	25.6	43 000	26.1	53 300	26.6	65 500	27.1	80 000	27.6	97 100	28.1	117 100	28.6
SZ170	35	16 600	8.9	21 900	9.0	28 100	9.0	35 300	9.1	43 400	9.0	52 600	9.0	63 000	8.8	74 600	8.6
	45	-	-	17 900	11.3	23 800	11.3	30 600	11.4	38 300	11.4	47 000	11.3	56 800	11.2	67 700	11.1
	55	-	-	-	-	-	-	24 800	14.3	31 900	14.3	40 000	14.3	49 200	14.3	59 400	14.1
SZ180	35	18 100	9.6	23 600	9.7	30 100	9.8	37 600	9.9	46 300	9.9	56 200	9.9	67 500	9.8	80 100	9.7
	45	-	-	20 100	12.1	26 100	12.2	33 200	12.3	41 200	12.4	50 500	12.4	60 900	12.3	72 700	12.2
	55	-	-	-	-	-	-	27 800	15.4	35 100	15.4	43 600	15.5	53 100	15.4	63 900	15.4
SZ200	35	19 800	10.3	25 500	10.5	32 300	10.6	40 200	10.7	49 500	10.8	60 200	10.8	72 400	10.8	86 300	10.7
	45	-	-	22 500	13.0	28 700	13.1	36 000	13.2	44 500	13.3	54 300	13.4	65 500	13.4	78 300	13.3
	55	-	-	-	-	-	-	31 200	16.4	38 700	16.5	47 500	16.5	57 600	16.6	69 000	16.5
SZ220	35	22 700	11.7	29 200	11.9	36 800	12.0	45 800	12.1	56 300	12.2	68 300	12.2	82 100	12.1	97 600	12.0
	45	-	-	25 700	14.8	32 800	14.9	41 000	15.0	50 600	15.1	61 700	15.1	74 300	15.1	88 600	15.0
	55	-	-	-	-	-	-	35 500	18.7	44 100	18.8	54 000	18.8	65 300	18.8	78 200	18.7
SZ230	35	24 900	12.9	32 000	13.1	40 300	13.2	50 200	13.3	61 700	13.3	74 900	13.3	90 000	13.2	107 200	13.0
	45	-	-	28 100	16.2	35 800	16.4	44 800	16.5	55 300	16.5	67 500	16.5	81 300	16.4	97 100	16.2
	55	-	-	-	-	-	-	38 600	20.7	48 000	20.7	58 800	20.7	71 200	20.7	85 400	20.5
SZ242	35	26 600	13.5	34 000	13.7	42 900	13.9	53 200	14.0	65 200	14.0	79 000	14.0	94 800	13.9	112 600	13.8
	45	-	-	30 000	17.1	38 100	17.3	47 600	17.4	58 700	17.4	71 400	17.4	85 800	17.3	102 300	17.2
	55	-	-	-	-	-	-	41 200	21.8	51 100	21.8	62 500	21.8	75 500	21.7	90 400	21.5
SZ250	35	26 500	13.8	34 000	13.9	42 900	14.1	53 400	14.2	65 600	14.2	79 600	14.2	95 700	14.0	114 000	13.8
	45	-	-	29 900	17.3	38 100	17.4	47 700	17.6	58 900	17.6	71 800	17.6	86 500	17.5	103 300	17.3
	55	-	-	-	-	-	-	41 100	22.0	51 000	22.1	62 500	22.1	75 800	22.0	90 900	21.8
SZ285	35	30 600	15.8	39 100	16.1	49 300	16.3	61 200	16.5	75 000	16.6	91 000	16.5	109 300	16.4	130 100	16.2
	45	-	-	34 600	19.8	43 900	20.1	54 800	20.3	67 600	20.4	82 300	20.4	99 100	20.3	118 200	20.1
	55	-	-	-	-	-	-	47 600	25.0	58 900	25.2	72 100	25.3	87 300	25.3	104 600	25.1
SZ290	35	31 500	15.9	40 200	16.2	50 500	16.4	62 600	16.6	76 700	16.7	92 900	16.7	111 500	16.7	132 600	16.6
	45	-	-	35 300	20.0	44 800	20.3	55 900	20.5	68 800	20.6	83 700	20.7	100 700	20.7	120 100	20.7
	55	-	-	-	-	-	-	48 300	25.5	59 800	25.7	73 100	25.8	88 400	25.9	105 800	25.9
SZ296	35	32 600	16.6	41 500	16.8	52 000	17.0	64 400	17.3	78 800	17.6	95 500	17.8	114 800	17.8	136 900	17.8
	45	-	-	36 900	21.0	46 600	21.1	57 900	21.3	71 100	21.6	86 500	21.8	104 200	22.0	124 400	22.2
	55	-	-	-	-	-	-	50 900	26.6	62 700	26.7	76 500	26.9	92 500	27.2	110 800	27.4
SZ310	35	33 500	17.1	42 700	17.3	53 700	17.6	66 600	17.7	81 500	17.9	98 800	17.9	118 600	17.9	141 100	17.8
	45	-	-	37 600	21.5	47 600	21.7	59 400	21.9	73 200	22.1	89 000	22.2	107 200	22.2	127	

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

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

Technology, Manufacturing and range description

Literature: CC 023 - 03/03 GB

Selection and Application Guidelines for Performer single and tandem

Literature: GA 038 - 01/01 GB

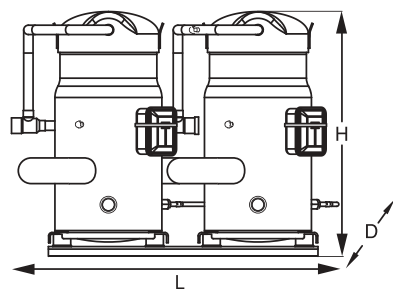
With performance data, operating envelopes, outline drawings, electrical data, installation and application information for performer SM and SZ compressors.

Quick Reference for Performer scroll compressors in 50 Hz.

Literature: CC069 GB - 02/04

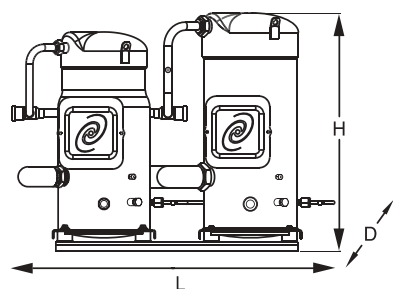
Above documents and datasheet generator are available on the Danfoss Commercial Compressors internet website: <http://cc.danfoss.com>

Product range tandem compressor



	L	D	H
S 170 - S 180 - S 200	757	423	532
S 220 - S 242	777	443	582
S 230 - S 250	836	480	603
S 320	911	480	657
S 296 - S 322	924	412	614
S 350 - S 370	1004	495	717

All dimensions in mm

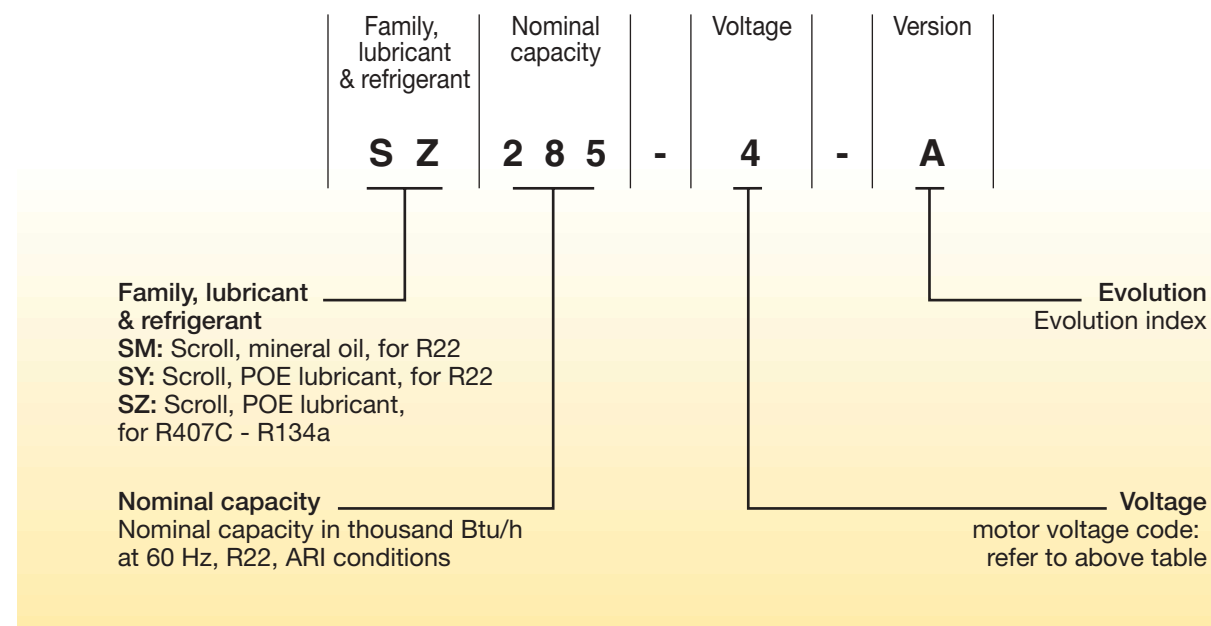


	L	D	H
S 285	884	480	657
S 290 - S 310	924	480	705

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 / SZ 170	S084 + S084	●	●	●	●	●
SM / SZ 180	S090 + S090	●	●	●	●	●
SM / SZ 200	S100 + S100	●	●	●	●	●
SM / SZ 220	S110 + S110	●	●	●	●	●
SM / SZ 230	S115 + S115	●	●	●	●	●
SM / SZ 242	S120 + S120	●	●	●	●	●
SM / SZ 250	S125 + S125	●	●	●	●	●
SM / SZ 285	S160 + S125	●	●	●	●	●
SM / SZ 290	S175 + S115	●	●	●	●	●
SM / SZ 296	S148 + S148	●	●	●	●	●
SM / SZ 310	S185 + S125	●	●	●	●	●
SM / SZ 320	S160 + S160	●	●	●	●	●
SM / SZ 322	S161 + S161	●	●	●	●	●
SM / SZ 350	S175 + S175	●	●	●	●	●
SM / SZ 370	S185 + S185	●	●	●	●	●
SZ 425	S240 + S185	○	○	○	○	○
SY / SZ 482	S240 + S240	○	○	○	○	○
SZ 485	S300 + S185	○	○	○	○	○
SY / SZ 540	S300 + S240	○	○	○	○	○
SY / SZ 600	S300 + S300	○	○	○	○	○

● Factory built - ○ Field assembly



The Danfoss product range for the refrigeration and air conditioning industry:

Compressors for refrigeration and air conditioning

These products include hermetic reciprocating compressors, scroll compressors and fan-cooled condensing units. Typical applications are air conditioning units, water chillers and commercial refrigeration systems.



Compressors and Condensing Units

This part of the range includes hermetic compressors and fan-cooled condensing units for household refrigerators and freezers, and for commercial units such as bottle coolers and drinks dispensers. We also offer compressors for heat pumps, and 12 and 24 V compressors for refrigerators and freezers in commercial vehicles and boats.



Appliance Controls

Danfoss offers a range of customer-specific electromechanical thermostats for refrigerators and freezers, electronic temperature controls with or without display, and service thermostats for use when servicing refrigeration and freezing appliances.



Refrigeration and air conditioning controls

Our full product range covers all control, safety, system protection and monitoring requirements in mechanically and electronically controlled refrigeration and air conditioning systems. The products are used in countless applications within the commercial and industrial refrigeration and air conditioning sectors.



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