

ROTATIONAL COMPRESSION FOR ENHANCED PERFORMANCE

The S Series uses hermetically sealed scroll compressors from 30 to 100 tons, and semi-hermetically sealed screw compressors from 60 tons to 195 tons. All scroll compressors and screw compressors up to 75 tons are matched up with stainless steel brazed plate evaporators, and screw compressors from 90 to 195 tons with shell and tube evaporators. All of the scroll compressors use R-22 refrigerant while all of the screw compressors use R-134a refrigerant. The scroll compressor chillers can be configured with an integral pump tank or stand alone. All S Series central chilling stations have an operating leaving water temperature range of 30°F to 65°F and have 2 independent refrigeration circuits.



Features

- High-efficiency scroll compressors (30-100 tons) or screw compressors (60-195 tons)
- Allen-Bradley Micrologix 1500 PLC control with PanelView 300 Micro monochrome/key pad interface
- Stainless steel brazed plate evaporator (30-100 tons: scroll)
- Shell and tube evaporators (60-195 tons: screw)
- Cleanable shell and tube condenser(s) (water cooled models)
- Two remote condensers with 1.5 hp variable speed lead fans and fan cycling (air-cooled models)
- NEMA 12 electrical enclosure
- High and low refrigerant pressure safeties
- Touch-safe branch circuit fusing
- EER BTUH/W average of 15.2 on scroll chillers; 15.7 on screw chillers
- HCFC-22 refrigerant (scroll); HFC-134a refrigerant (screw)
- Digital low temperature freeze stat
- Liquid line solenoid and shut-off valves
- Chilled water flow switches
- 1 year warranty on parts and labor
- 3 year warranty on controller
- 4 year additional compressor warranty

Options

- Advanced control package includes AB SLC 5/04 PLC with PanelView 1000 color touch-screen, control of up to 2 additional circuits, cooling tower system, water treatment system, and communication capabilities
- General fault audible/visual alarm with elevated light stack
- 2 and 4 compressor non-fused disconnect; 460/3/60V; 208-230/3/60
- Special voltages: 208-230/3/60, 575/3/60, 380/3/50 or 415/3/50; derate capacity by multiplying by 0.83
- Condenser Manifold: W 30 to 60 (3" Victaulic connection); W 70-1- (4" Victaulic connection)
- IEG-1 inhibited ethylene glycol; 55 gallons, P/N A0539637
- UL listed electrical subpanel
- Startup; includes on-site labor only¹

¹ Consult factory for travel and living expense costs and scheduling. Remote condenser units, including all piping and electrical hookups, must be installed, evacuated, and precharged before Sterling arrives on site.

S SERIES

Water-Cooled Central Chillers

SPECIFICATIONS: SSC SERIES SCROLL CHILLERS

Model	No. of compressors	Cooling capacity, tons (50° LWT)	Capacity stages, qty.	EER, BTUH/W	Amp Draw, 460/3/60		Nominal flow, gpm		Condenser conn. (no manifold) flange conn., in.	Evaporator manifold conn. victaulic, in.
					RLA ¹ per compressor	MCA ² per chiller unit	Evaporator	Condensers		
SSC 30	2	31.3	2	15.6	28	62	78	97	(2) 2	3
SSC 40	2	42.2	2	15.2	34	76	99	124	(2) 2	3
SSC 50	2	50.2	2	15.4	43	97	120	151	(2) 2	3
SSC 60	4	64.8	4	15.7	27	113	156	194	(2) 2.5	3
SSC 70	4	73.2	4	15.1	27/34	129	175	219	(2) 2.5	3
SSC 80	4	81.5	4	14.7	34	143	196	244	(2) 2.5	3
SSC 90	4	90.4	4	15.0	34/43	164	217	271	2.5/3	4
SSC 100	4	99.3	4	15.2	43	183	238	298	(2) 3	4

Model	Height, in.	Width, in.	Depth, in.	Ship. weight, lbs.	Max. operating weight, lbs.
SSC 30	85	66	45	1520	1610
SSC 40	85	94	45	1900	2010
SSC 50	85	94	45	2120	2260
SSC 60	85	94	45	2700	2870
SSC 70	75	94	45	3000	3200
SSC 80	75	94	45	3300	3520
SSC 90	75	115	45	3580	3830
SSC 100	75	115	45	3880	4160

1 RLA = running load amps 2 MCA = minimum circuit amps

SPECIFICATIONS: SCW SERIES SCREW CHILLERS

Model	No. of compressors	Cooling capacity, tons (50° LWT)	Capacity stages, qty.	EER, BTUH/W	Amp Draw, 460/3/60		Nominal flow, gpm		Condenser conn. (no manifold) flange conn., in.	Evaporator manifold conn. victaulic, in.
					RLA ¹ per compressor	MCA ² per chiller unit	Evaporator	Condensers		
SCW 60	2	60.3	Infinite unloading	15.2	58	133	145	181	2.5	3
SCW 75	2	74.8		15.1	66	151	180	225	2.5	3
SCW 90	2	88.5		14.5	79	180	213	266	3	4
SCW 100	2	104.3		15.6	98	223	245	307	3	4
SCW 115	2	116.2		15.3	124	281	279	349	3	4
SCW 145	2	146.3		16.1	144	326	350	438	4	6
SCW 165	2	166.2		16.0	155	351	399	499	4	6
SCW 195	2	192.8		16.2	182	412	463	579	4	6

Model	Height, in.	Width, in.	Depth, in.	Ship. weight, lbs.	Max. operating weight, lbs.
SCW 60	85	100	45	3266	3468
SCW 75	85	100	45	3512	3754
SCW 90	74	115	72	4336	4594
SCW 100	74	115	72	4982	5246
SCW 115	77	124	72	5298	5584
SCW 145	81	137	75	8844	9428
SCW 165	81	137	75	9376	10102
SCW 195	81	137	75	9580	10364

1 RLA = running load amps 2 MCA = minimum circuit amps

Specifications, appearances and dimensions are subject to change without notice.

