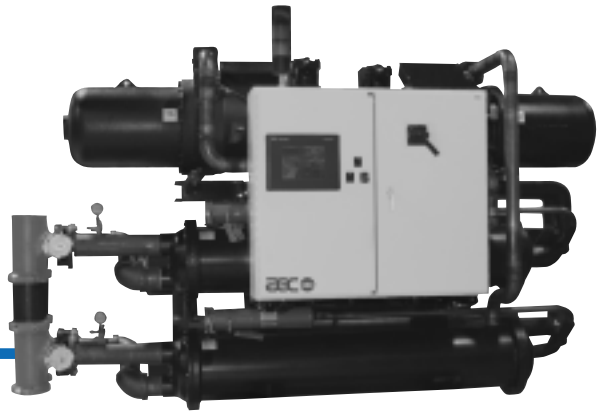
HEAT AND COOL

R SERIES WATER-COOLED CENTRAL CHILLERS

The R 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 R Series central chilling stations have an operating leaving water temperature range of 30ºF to 65ºF and have 2 independent refrigeration circuits.



RS Screw Chiller

STANDARD 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 (shell & tube on 90-195 ton screw compressor models)*
- *Cleanable shell and tube condensers*
- *Two-way water regulating valve (scroll chillers)*
- *Electronic expansion valves (screw chillers)*
- *NEMA 12 electrical enclosure*
- *UL listed electrical subpanel*
- *High and low refrigerant pressure safeties*
- *Touch-safe branch circuit fusing*
- *Evaporator water piping manifold (condenser manifold optional)*
- *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 freezestat*
- *Liquid line shut-off valves (scroll chillers also feature solenoids)*
- *Chilled water flow switches*
- *Auto/Manual control mode switch for emergency operation (scroll chillers)*
- *1 year warranty on parts and labor*
- *3 year warranty on controller*

OPTIONAL FEATURES

- *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 DH+ communication capabilities*
- *General fault audible/visual alarm with elevated light stack*
- *U.L. Listed electrical subpanel (screw chillers only)*
- *Non-fused disconnect, 460/3/60 or 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 for 50 Hz operation)*
- *Condenser manifold*
- *IEG-1 inhibited ethylene glycol; 55 gallons, P/N A0539637*
- *Startup (remote condenser units including all piping and electrical hookups, must be installed, evacuated, and precharged before AEC arrives on site)*
- *4-year additional compressor warranty*
- *Shell and tube evaporators on scroll compressor models*

SPECIFICATIONS: RC 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		
RCW 30	2	31.3	2	15.6	28	62	78	97	(2) 2	3
RCW 40	2	42.2	2	15.2	34	76	99	124	(2) 2	3
RCW 50	2	50.2	2	15.4	43	97	120	151	(2) 2	3
RCW 60	4	64.8	4	15.7	27	113	156	194	(2) 2.5	3
RCW 70	4	73.2	4	15.1	27/34	129	175	219	(2) 2.5	3
RCW 80	4	81.5	4	14.7	34	143	196	244	(2) 2.5	3
RCW 90	4	90.4	4	15.0	34/43	164	217	271	2.5/3	4
RCW 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.
RCW 30	85	66	45	1520	1610
RCW 40	85	94	45	1900	2010
RCW 50	85	94	45	2120	2260
RCW 60	85	94	45	2700	2870
RCW 70	75	94	45	3000	3200
RCW 80	75	94	45	3300	3520
RCW 90	75	115	45	3580	3830
RCW 100	75	115	45	3880	4160

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

SPECIFICATIONS: RS 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		
RSW 60	2	60.3	Infinite unloading	15.2	58	133	145	181	2.5	3
RSW 75	2	74.8		15.1	66	151	180	225	2.5	3
RSW 90	2	88.5		14.5	79	180	213	266	3	4
RSW 100	2	104.3		15.6	98	223	245	307	3	4
RSW 115	2	116.2		15.3	124	281	279	349	3	4
RSW 145	2	146.3		16.1	144	326	350	438	4	6
RSW 165	2	166.2		16.0	155	351	399	499	4	6
RSW 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.
RSW 60	85	100	45	3266	3468
RSW 75	85	100	45	3512	3754
RSW 90	74	115	72	4336	4594
RSW 100	74	115	72	4982	5246
RSW 115	77	124	72	5298	5584
RSW 145	81	137	75	8844	9428
RSW 165	81	137	75	9376	10102
RSW 195	81	137	75	9580	10364

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

HEAT AND COOL

R SERIES REMOTE AIR-COOLED CENTRAL CHILLERS

The R 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 R Series central chilling stations have an operating leaving water temperature range of 30ºF to 65ºF and have 2 independent refrigeration circuits.

Note: Remote condensers are not designed to be used indoors.

RC Scroll Chiller

STANDARD 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 (shell & tube on 90-195 ton screw compressor models)*
- *2 remote single circuit condensers with 1.5 hp variable speed lead fans and fan cycling*
- *Electronic expansion valves (screw chillers)*
- *NEMA 12 electrical enclosure*
- *UL listed electrical subpanel*
- *High and low refrigerant pressure safeties*
- *Touch-safe branch circuit fusing*
- *Evaporator water piping manifold (condenser manifold optional)*
- *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 freezestat*
- *Liquid line shut-off valves (scroll chillers also feature solenoids)*
- *Chilled water flow switches*
- *Auto/Manual control mode switch for emergency operation (scroll chillers)*
- *1 year warranty on parts and labor*
- *3 year warranty on controller*

OPTIONAL FEATURES

- *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 DH+ communication capabilities*
- *General fault audible/visual alarm with elevated light stack*
- *U.L. Listed electrical subpanel (screw chillers only)*
- *Non-fused disconnect, 460/3/60 or 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 for 50 Hz operation)*
- *Condenser manifold*
- *IEG-1 inhibited ethylene glycol; 55 gallons, P/N A0539637*
- *Startup (remote condenser units including all piping and electrical hookups, must be installed, evacuated, and precharged before AEC arrives on site)*
- *4-year additional compressor warranty*
- *Shell and tube evaporators on scroll compressor models*

SPECIFICATIONS: RC SERIES SCROLL CHILLERS

Model	No. of compressors	Cooling capacity, tons (50° LWT)	Capacity stages, qty.	EER, BTUH/W	Amp Draw, 460/3/60				No. of fans per condenser	Evaporator manifold conn. victaulic, in.	Nominal water flow, gpm
					MCA[2] per chiller unit	RLA[1] per condenser	RLA[1] per compressor	MCA[2] per condenser			
RCR 30	2	29.0	2	12.1	62	7	28	8	2	3	72
RCR 40	2	39.0	2	12.1	76	7	34	8	2	3	92
RCR 50	2	46.3	2	12.3	97	7	43	8	2	3	111
RCR 60	4	59.7	4	12.2	113	7	27	8	2	3	143
RCR 70	4	67.5	4	11.9	129	7/10.5	27/34	8/12	2/3	3	162
RCR 80	4	75.3	4	11.6	143	10.5/14	34	12	3	3	181
RCR 90	4	83.5	4	11.9	164	10.5/14	34/43	12/15	3/4	4	200
RCR 100	4	91.7	4	12.1	183	14	43	15	4	4	220

Model	Height, in.		Width, in.		Depth, in.		Ship. weight, lbs.		Max. operating weight, lbs.	
	Chiller	Cond.	Chiller	Cond.	Chiller	Cond.	Chiller	Cond.	Chiller	Cond.
RCR 30	85	50	60	45.5	45	127	1340	730	1350	790
RCR 40	85	50	83	45.5	45	127	1530	730	1550	805
RCR 50	85	50	83	45.5	45	127	1730	730	1760	885
RCR 60	85	50	83	45.5	45	127	2120	880	2150	1110
RCR 70	75	50	86	45.5	45	127/180	2360	880/1210	2400	110/1435
RCR 80	75	50	86	45.5	45	180	2600	1210	2640	1435
RCR 90	75	50	86	45.5	45	180/233	2870	1210/1580	2910	1435/1825
RCR 100	75	50	86	45.5	45	233	3170	1580	3220	1825

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

SPECIFICATIONS: RS SERIES SCREW CHILLERS

Model	No. of compressors	Cooling capacity, tons (50° LWT)	Capacity stages, qty.	EER, BTUH/W	Amp Draw, 460/3/60				No. of fans per condenser	Evaporator manifold conn. victaulic, in.	Nominal water flow, gpm
					MCA[2] per chiller unit	RLA[1] per condenser	RLA[1] per compressor	MCA[2] per condenser			
RSR 60	2	53.8	Infinite unloading	11.7	133	7	58	8	2	3	129
RSR 75	2	66.8		11.8	151	10.5	66	12	3	3	161
RSR 90	2	77.3		11.1	180	10.5	79	12	3	4	190
RSR 100	2	92.5		11.9	223	14	98	15	4	4	219
RSR 115	2	103.5		11.8	281	14	124	15	4	4	250
RSR 145	2	130.8		12.3	326	17.5	144	19	5	6	313
RSR 165	2	148.3		12.3	351	17.5	155	19	5	6	356
RSR 195	2	173.8		12.3	412	28	182	29	8	6	418

Model	Height, in.		Width, in.		Depth, in.		Ship. weight, lbs.		Max. operating weight, lbs.	
	Chiller	Cond.	Chiller	Cond.	Chiller	Cond.	Chiller	Cond.	Chiller	Cond.
RSR 60	75	50	100	45.5	45	127	2574	1190	2600	1215
RSR 75	75	50	100	45.5	45	180	2676	1210	2710	1240
RSR 90	74	50	115	45.5	72	180	3456	1580	3498	1650
RSR 100	74	50	115	45.5	72	233	3532	1620	3580	1660
RSR 115	77	50	124	45.5	72	233	4156	1760	4212	1800
RSR 145	81	50	137	45.5	75	286	7528	2380	7788	2435
RSR 165	81	50	137	45.5	75	286	7554	2480	7814	2540
RSR 195	81	50	137	88	75	233	7698	3230	8016	3300

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