



CENTRAL CHILLING STATIONS

SCREW COMPRESSOR CHILLER 60 TO 195 TONS

The newest line of central chillers from Sterling incorporates the latest in refrigeration technology - rotational compression. Under full load conditions, the SCW shows an increase in the Energy Efficiency Rating (EER) of 12%, which translates into an average savings of \$5,200 operating costs over R-22 chillers.¹

¹ Based on operating the chiller 4,000 hours per year and have an electrical cost of \$0.08/kWh.

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
- HFC-134a refrigerant
- Digital low temperature freezestat
- Liquid line solenoid and shut-off valves
- Chilled water flow switches

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



SCW SERIES



Standard PLC Screen (Allen-Bradley Micrologix 1500 with PanelView 300 Micro)

- Control up to 2 compressors in 2 circuits
- Alarm condition indicators for safety devices including motor overloads (compressor or pump), flow switches, freezestats, refrigerant pressures, voltage/phase sensor, high and low temperature alarms
- Hour meters to accumulate run time in compressors and/or pumps
- Chilled water pumps: Variable 1 to 3 process pumps and recirculation pumps. In systems with multiple pumps, they may be altered at specific intervals.
- Network capable over DH-485 to communicate with a chiller with the Advanced Control Package



Advanced PLC Screen (Allen-Bradley SLC 5/04 with PanelView 1000)

- Cooling Tower Fans: Variable 1 to 3 fans, to be controlled with PID algorithm. Operator may choose to alternate the fans at specific intervals
- Cooling Tower Pumps: Variable 1 to 3 process pumps and recirculation pumps. In systems with multiple pumps, they may be alternated at specific intervals
- Alarm condition indicators for safety devices including motor overloads (compressor or pump), flow switches, freezestats, refrigerant pressures, voltage/phase sensor, high and low temperature alarms
- Hour meters to accumulate run time in compressors and/or pumps
- Chilled water pumps: Variable 1 to 3 process pumps and recirculation pumps. In systems with multiple pumps, they may be altered at specific intervals
- Network capable over DH-485 to communicate with a chiller with another Advanced Control Package or Standard Control Package



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