



## CENTRAL CHILLING STATIONS

## SCROLL COMPRESSOR CHILLER 30 TO 100 TONS

The newest line of central chillers from Sterling incorporates the latest in refrigeration technology - rotational compression.

### Features

- High efficiency screw compressors
- Allen-Bradley Micrologix 1500 PLC control with PanelView 300 Micro monochrome/key pad interface
- Stainless steel brazed plate evaporator (60-75)
- Shell and tube evaporators (90-195)
- Two remote condensers with 1.5 hp variable speed lead fan and fan cycling (air-cooled models)
- NEMA 12 electrical enclosure
- UL listed electrical subpanel
- High and low refrigerant pressure safeties
- Branch circuit fusing
- EER BTU/W of 10.0 on remote air-cooled units
- Electronic expansion valves
- HFC-410a refrigerant
- Digital low temperature freeze stat
- Liquid line solenoid and shut-off valves
- Chilled water flow switches
- Evaporator water piping manifold

### 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
- UL listed electrical subpanel
- Disconnect, non-fused; 460/3/60; 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)
- IEG-1 inhibited ethylene glycol; 55 gallons, P/N A0539637
- 4 year additional compressor warranty
- Startup; includes on-site labor only<sup>1</sup>

<sup>1</sup> Start-ups include on-site labor only; consult factory for travel, 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.



# SSC SERIES



## Standard PLC Screen

(Allen-Bradley Micrologix 1500 with PanelView 300 Micro)

- Control up to 4 compressors in 1 or 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 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 4 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
- Chemical Feed Pumps: The software may control up to 2 chemical feed pumps. Chemical feed pumps will be operated such that the pump will run for a designated time at each completion of a specified time
- 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 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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