



CENTRAL CHILLING STATIONS

30-100 TON CHILLING SYSTEM

The new and improved SSC-WT Series Central Chilling Stations provide simply the best central chiller on the market today from 30 through 100 tons. Complete with scroll compressors, PLC microprocessor and touch-screen control, stainless steel tank and brazed plate evaporators. Independent refrigerant circuits allow routine maintenance without costly downtime, and compressor staging provides energy saving capacity control.

Features

- **Scroll Compressors:** The latest in rotational compression technology, hermetically sealed scroll compressors use 50% fewer moving parts than reciprocating compressors resulting in unparalleled efficiency, reliability and noise reduction
- **Interior Stainless Steel Reservoir (Dual Well):** 100% non-ferrous stainless steel tank eliminates the need for routine tank maintenance. 1/2" tank insulation
- **Generously Sized Process and Recirculation Pumps:** Optional dedicated standby pumps allow longer life (with automatic motor cycling) and reduced downtime due to pump maintenance and repair. Check valves allow automatic switchover (manual closing not required)
- **Full Size Lug Style Butterfly Valves:** Allows complete servicing of one circuit while other(s) remain online
- **Brazed Plate Evaporators:** Very compact and efficient stainless steel units
- **Cleanable Shell and Tube Condensers:** With the epoxy-coated heads easily accessible from the front of the unit, scale and fouling buildup can be removed quickly and easily
- **Water Regulating Valve (Water Cooled Units):** Regulates the flow of water through the condenser for stable system operation
- **Branch Fusing:** Provides protection for individual motors
- **R410a refrigerant (SSC Series) or R-134a refrigerant (SCW Series)**

Options

- Pumps - up to 2 process and 2 recirculation mounted on unit
- Through the door disconnect
- Dedicated standby pumps
- Pressure and flow transducers



SSC-WT SERIES



Configurations Available

- Option 1 - Pinnacle Series
- Option 2 - Vertically stacked
- Option 3 - Side by side

Note: Due to shipping restrictions, Options 2 and 3 will be shipped in 2 sections. Field assembly and interconnecting piping are required



Standard PLC Screen

(Allen Bradley Micrologix 1500 with PanelView 300 Micro)

- Control 2 or 4 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 1 or 2 recirculation pumps. In systems with multiple pumps, they may be altered at specific intervals.
- Control of Winter Kooler pump
- Network capable over DH-485 to communicate with a chiller featuring the Advanced Control Package



Advanced PLC Screen

(Allen Bradley SLC 5/04 with PanelView 1000)

- Cooling Tower Fans: 1 to 4 fans controlled with PID algorithm. Operator may choose to alternate the fans at specific intervals
- Cooling Tower Pumps: Variable 1 to 4 process pumps and 1 to 3 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 1 or 2 recirculation pumps. In systems with multiple pumps, they may be altered at specific intervals
- Control of Winter Kooler pump
- Network capable over DH-485 to communicate with a chiller featuring the Advanced Control or Standard Control Package



Sterling New Berlin
 2900 S 160th Street
 New Berlin, WI 53151 USA
 Tel: +1 262 641 8610
 Fax: +1 262 641 8653
 www.sterlco.com

Sterling Schaumburg
 1100 E Woodfield Rd #550
 Schaumburg, IL 60173 USA
 Tel: +1 847 273 7700
 Fax: +1 847 273 7804

Sterling Warsaw
 ul.Dziakowa 115
 02-234 Warszawa
 Tel: +48 22 390 9720
 Fax: +48 22 390 9724

Sterling India
 Gat No. 191/1, Sandbhor Complex,
 Mhalunge, Chakan, Tal Khed,
 Dist. Pune 410501, India
 Tel: +91 21 35329112
 Fax: +91 20 40147576

Sterling Suzhou
 109 Xingpu Road SIP
 Suzhou, China 215126
 Tel: +86 512 8717 1919
 Fax: +86 512 8717 1916

