

OUTDOOR SERIES



Air-Cooled Chillers



AN EFFICIENT, SPACE SAVING SYSTEM FOR PROCESS COOLING

If you're cramped for plant space, the outdoor chiller may be the ideal solution for your process cooling needs. The outdoor air-cooled chiller works in conjunction with an in-plant reservoir and pumping system.

Models are available in capacities from 10 to 300 tons. Sterling systems are delivered installation-ready, full factory tested, pre-piped, pre-wired and completely weatherproofed. With 28 standard models and a comprehensive range of cooling capacities, there's a Sterling Air-Cooled Central Chilling System to meet your special requirements.

30RAN Scroll Compressor Models

Sterling's 30RAN models feature 10-60 ton cooling capacities, with hermetic scroll compressors. Sterling systems are delivered installation-ready, fully factory tested, pre-piped, pre-wired and completely weatherproofed.

30RB Screw Compressor Models

Sterling's 30RB models feature 85-300 ton cooling capacities, with hermetic screw compressors. Sterling systems are delivered installation-ready, fully factory tested, pre-piped, pre-wired and completely weatherproofed.

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30RAN Features

- 10-60 ton cooling capacity (11 models)
- Hermetic scroll compressors
- Direct expansion type brazed plate evaporator(s)
- Aluminum fin/copper tube condenser with direct drive reinforced polymer fans
- R-22 refrigerant
- Standard ambient operation from -20°F to 125°F (-29°C to 52°C) Wind baffles required for -20°F operation
- Standard leaving water temperature setpoints are from 40° to 70° F (4.4° to 21° C). Other setpoint ranges are available upon request
- Two independent circuits on 035 and 055
- Refrigeration(s) circuits include filter dryer, sight glass and thermal expansion valve
- Safeties include: high and low refrigerant, freezestat, phase loss, motor overload, and reverse rotation of the compressor

Options

- Non-fused disconnect switch
- 4 year extended compressor parts warranty
- Remote display panel
- Wind baffle / hail guard
- AWX Winter Kooler - supplemental cooling option

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30RB Features

- 60-300 ton cooling capacity (17 models)
- Rotary scroll compressors
- Minimum load capacity control
- Direct expansion shell and tube cooler with cooler heaters
- Puron® R-410A refrigerant
- Standard ambient operation from -20°F to 125°F (-29°C to 52°C) Wind baffles required for -20°F operation
- Standard leaving water temperature setpoints are from 40°F to 60°F (4.4°C to 18.6°C). Other below temperature setpoint ranges are available upon request
- Three independent circuits
- Refrigeration(s) circuits include oil separator, discharge and liquid line shut off valves, filter dryer, sight glass and electronic expansion valve
- Safeties include: high and low refrigerant, freezestat, phase loss, motor overload, ground fault, voltage and current imbalance, evaporator flow switch, and reverse rotation of compressor
- One year parts and labor warranty with factory startup is standard

Options

- Non-fused disconnect switch
- 4 year extended compressor parts warranty
- Remote display panel
- Wind baffle / hail guard (drawings supplied)
- AWX Winter Kooler - supplemental cooling option

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SWK Winter-Kooler Systems

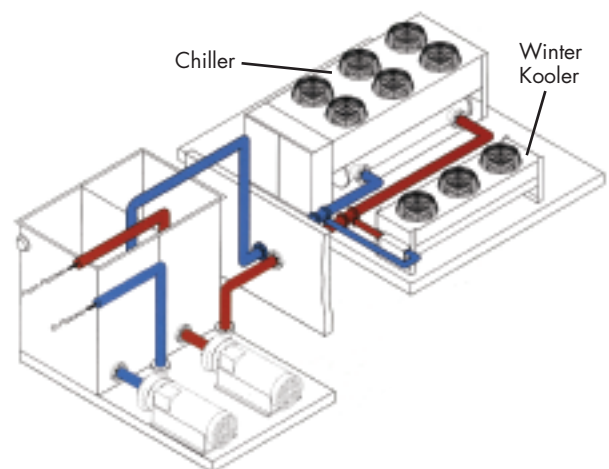
Winter-Kooler systems are designed to allow process cooling water to bypass the chiller when ambient air temperatures are low enough to provide cooling without the help of mechanical refrigeration.

Features

- Energy-efficient fan motors; direct drive fans rotate at 1,140 rpm
- Thermal overload protection and permanently lubricated ball bearings
- Fan motor leads wired to weatherproof electrical enclosure for single-point field wiring
- Fully baffled fan sections for structural strength; prevents fan windmilling during OFF cycles
- Automatic pump switchover
- Available in sizes from 20 to 250 tons

Specifications

This diagram illustrates the suggested installation for those areas that have low ambient temperatures (below 10°F). It shows that the chiller is replaced by the SWK Winter-Kooler during those times when the temperature is below the rated ambient of the chiller. The SWK could replace the chiller anytime the ambient is below 40°F and can typically pay for itself in less than 18 months (depending on usage time and electrical costs).



PRODUCT. PERFORMANCE. EXCELLENCE.

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