



Application Engineering®

PROVIDING SOLUTIONS, NOT JUST EQUIPMENT



R SERIES CENTRAL CHILLING STATIONS

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

R SERIES - 60 TO 195 TONS

- Semi-hermetic screw compressors
- Stainless steel brazed plate evaporators (60 & 75 tons)
- Shell & tube evaporators (90-195 tons)
- Cleanable shell & tube condensers (water cooled)
- Fin & tube condensers with -20°F ambient operation (remote air cooled)
- Electronic expansion valves
- HFC-134a refrigerant
- All refrigerant safeties



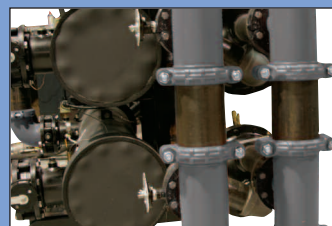
Back view of the Screw Compressor Chiller



Close-up of the inside electrical panel



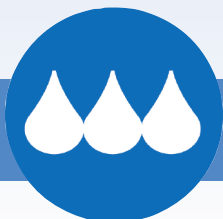
Evaporator manifold terminated in victaulic coupling.



Optional condenser set up with victaulic coupling

Under full load conditions, the RS 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.

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



RS SCREW COMPRESSOR CHILLERS

www.aecinternet.com



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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AEC is committed to a continuing program of product improvement. Specifications, appearances and dimensions are subject to change without notice.
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