



## PINNACLE SERIES CENTRAL CHILLING SYSTEM

The new and improved Pinnacle™ 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.

Note: Remote condensers are not designed to be used indoors.



Pinnacle Series

### STANDARD 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 (other sizes available, please consult factory)*
- *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*
- *Automatic Water Makeup Valve With Baffle: Automatically adds water to the system to maintain desired level*
- *Welded Steel Frame: One-piece construction is perimeter welded to minimize vibrations and includes convenient fork lift slots for easy maneuvering*
- *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*
- *Hour Meters - Compressor & pumps*
- *Branch Fusing: Provides additional Protection for individual motors*
- *Compressor phase protection*
- *Audible/visual alarm indication*
- *Refrigerant: R22*

### OPTIONAL FEATURES

- *Pumps - up to 2 process and 2 recirculation mounted on unit*
- *Through the door disconnect - padlockable handle provides convenient local power disconnection for electrical service*
- *Dedicated standby pumps*
- *Pressure and flow transducers*
- *Condenser manifold on water cooled units to allow single point connection*

## 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