Made In the USA

Maximize Beer Production with Advantage Glycol Chillers

- Fermentation Tank Cooling
- Conditioning Tank Cooling
- Storage Room Cooling
- Wort Cooling

- Air-Cooled : Self Contained Package
- 5 - 210 Horsepower Indoor & Outdoor Models
- 20°F - 70°F Adjustable Fluid Temperature
- Large Capacity Reservoir
- High Flow Pump
- Fully Factory Tested - Ready to Run

BG & BC Series
Indoor and Outdoor Glycol Chillers

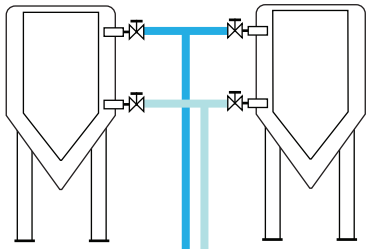
Indoor Glycol Chillers : 1 - 30 Horsepower

Advantage Indoor Glycol Chillers are designed to provide a glycol fluid temperature of 25°F but have an operating range of 20°F to 70°F.

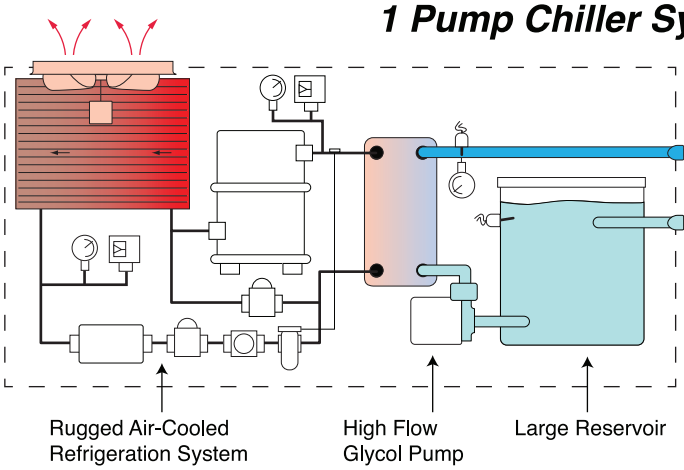
Air-cooled glycol chillers are purpose built for the unique requirements of breweries. Set up for low temperature operation and high flow, glycol chillers are designed to cool fermentation tanks quickly to maximize production while keeping bright tanks at a steady temperature.

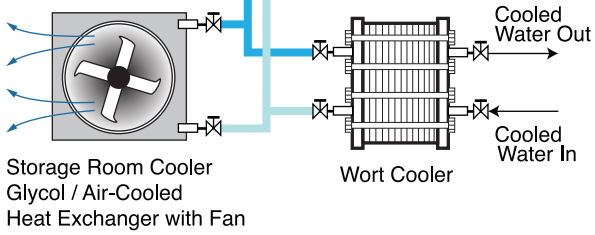
Temperature control is achieved by using a “tailor made” microprocessor control instrument designed and manufactured exclusively for the Advantage glycol chiller. The control instrument maintains precise temperature control while protecting the system components. All gauges and control instrument information is conveniently located permitting instant diagnosis of performance.

Typical Applications for Advantage Chillers in Craft Brewing



1 Pump Chiller System





Components

HIGHLY EFFICIENT EVAPORATORS... Most models use high efficiency stainless steel brazed plate evaporators. Non-ferrous construction prevents rusting.

HIGH PERFORMANCE COOLANT PUMPS... Brass positive displacement pumps or Centrifugal pumps are used. All pumps are selected to provide turbulent flow to promote efficient heat transfer.

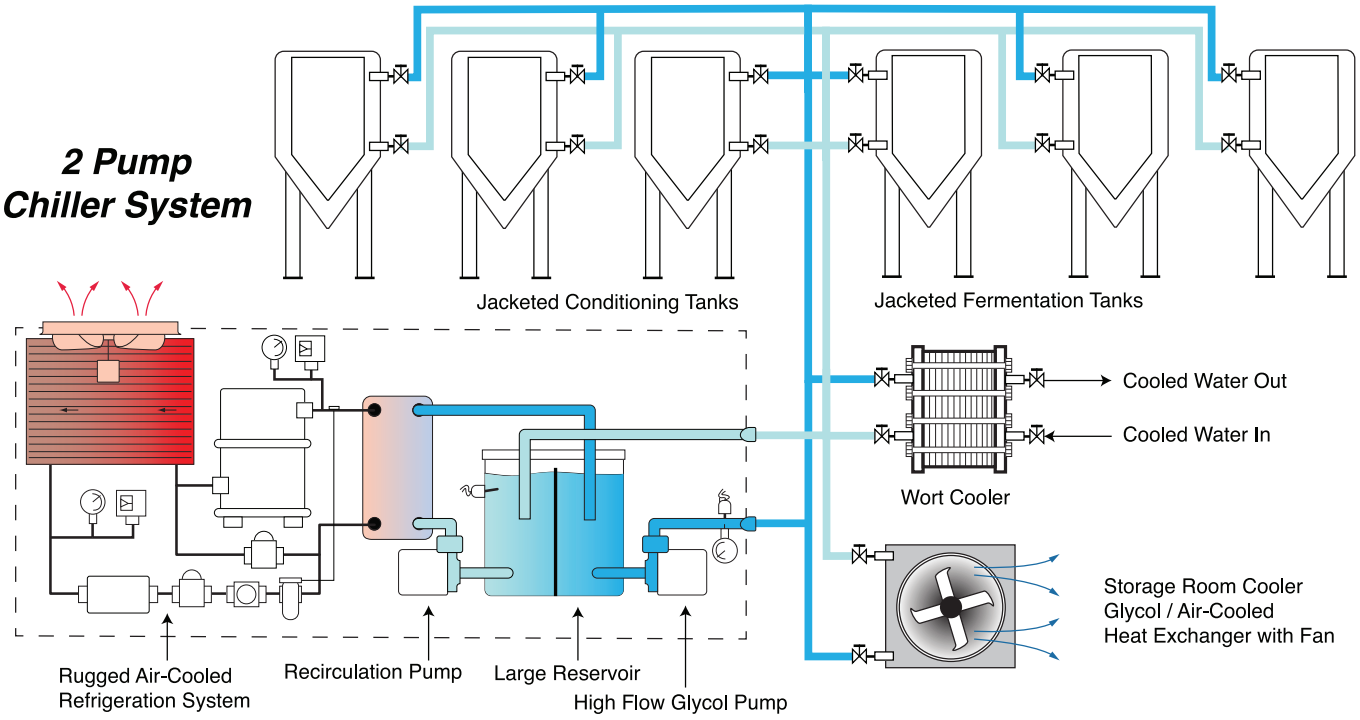
LIFETIME WATER RESERVOIR... All chillers include a non-rusting vented water reservoir sized to support the flow rate of the chillers. The reservoir helps provide a stable water temperature under varying load conditions.

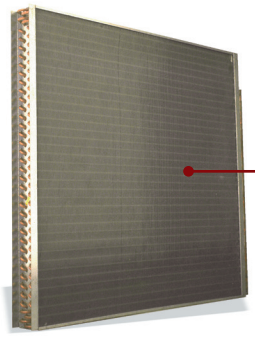
Outdoor Glycol Chillers : 5 - 210 Horsepower

Advantage Outdoor Glycol Chillers are designed to provide a glycol fluid temperature of 25°F but have an operating range of 20°F to 70°F. Models are available with multiple refrigeration circuits for capacity staging and redundancy.

Typical Applications for Advantage Chillers in Craft Brewing

2 Pump Chiller System





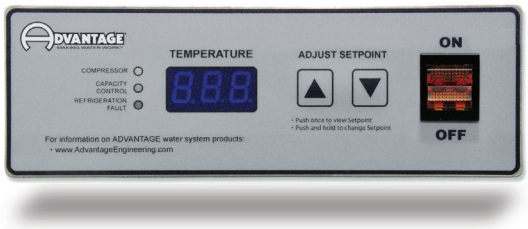
AIR-COOLED CONDENSER ... High Capacity finned tube condensers are used in all models. Propeller fans are standard in most models.

RUGGED COMPRESSORS ... Reliable scroll and digital scroll reciprocating compressors provide long life and energy efficient operation.

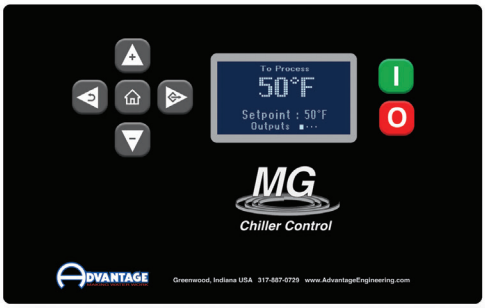
REFRIGERANT COMPONENTS ... All refrigerant components used in Advantage chillers are selected for historic reliability and performance. Components include high & low pressure limit switches, expansion valve, relief valve, filter dryer and sight glass/moisture indicator.

Control Instruments

For chillers from 1 to 1½ horsepower



For chillers from 2 to 30 horsepower



For Multizone Chillers

Advantage Glycol Chillers are supplied with tailor made microprocessor control instruments that control and monitor all aspects of the chiller operation to assure accurate control and dependable operation. The controls are designed to support the specific and unique requirements of process cooling in an industrial environment. All Advantage tailor made microprocessor control instruments include a 4 year warranty. After the warranty period we'll repair your board for an economical fee should it require repair.

FEATURES:

- Accurate control
- Large & Bright LED temperature display
- Digital Setpoint selection with soft touch keys
- Illuminated Chiller On / Off switch
- Compressor On light
- Basic chiller diagnostics with Refrigeration Fault light
- Capacity control light

For chillers from 1 to 1½ Horsepower ... The standard chiller control for ¼ to 1½ HP glycol chillers provides basic temperature and machine status monitoring.

For chillers from 2 to 30 HP ... the standard chiller control is the MG Control. 3, 5, 10 & 15 horsepower chillers using the Copeland Scroll Digital Compressor include custom control firmware to operate the digital capacity control system providing energy efficient capacity modulation from 20-100% load. Chillers using Copeland's scroll compressors include hot gas bypass capacity control from 50-100% load.

For Multizone Chillers ... The MZC controller operates multiple refrigerant zones providing accurate temperature to process. Using Intelligent Zone Boards for redundancy and individual zone staging, the MZC has over 15 years of field service reliability. Soft key controls select zone displays and setpoint. Two large display windows continuously show To Process and Setpoint temperatures, shown in Fahrenheit or Celsius. From Process temperature is selectable for display. Solid green indicates run condition. Flashing red shows an error condition exists. And solid red shows an error conditional once existed but has been rectified. Pressing the 'select' button changes a solid red indication into a solid green indication. Multi-function control operators start and stop each pump individually and show current status. An emergency stop button is standard. The instrument provides an alarm status light on the display, as well as an audible and visual alarm beacon. A selectable refrigeration zone lead/lag mode is a standard feature of the instrument. Modbus RTU with optional TCP is available.

Support

- Equipment selection assistance - standard
- Facility pipe sizing & routing drawings - standard
- Quick online selection tool (www.advantageengineering.com/BC)
- Quick online pricing available 24 - 7 (www.advantageengineering.com)
- System start up assistance and training - optional

Phone: 317-887-0729 Web: www.AdvantageEngineering.com

ADVANTAGE PRODUCTS: TEMPERATURE CONTROLLERS • PORTABLE CHILLERS • CENTRAL CHILLERS • PUMP TANK STATIONS • TOWER SYSTEMS • FILTERS

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