Compact unitary designs available in a variety of configurations from 5 to 60 tons of cooling capacity.

www.aecinternet.com
GP Configurations Designed to Meet Your Changing Needs.

Packaged chillers are designed to house all of the components necessary for your cooling requirements. With integrated pumps and tanks, GP Series Chillers are able to keep pace with the needs of your business today and into the future.

- **Auto Water Makeup**: Automatically maintain the right amount of water within the chilling system.
- **Alarm Package**: Integrate audible and visual warning and fault indicators directly on the GP unit.
- **Sensor Arrays**: Various configurations of measuring devices for complete unit control.
- **Communications**: GP Chiller communication options include Modbus RTU, BACNet, and Lonworks.
- **High Pressure Fans**: Use higher pressure fans to reject heat to the outside.
- **Pump Options**: Select from a wide variety of optional pumps for your application.
- **Side Stream Filter**: Remove fluid particulate through the use of a process fluid side stream filter for longer equipment life.
- **Extended Compressor Warranty**: Optional 4 years of compressor warranty protection.
The GP Series offers the broadest range of chillers available on the market today.

With fully featured chillers from 5 to 60 tons, the GP Series Packaged Chillers are the broadest line of unitary chiller products on the market today. The innovative design not only allows for multiple options, but it is also one of the smallest available packages, freeing valuable floor space within your facility. The mechanical cabinet was designed for tool-free access for easy maintenance. The broad range of available options allows each facility to tailor a solution to meet the unique needs of their particular operation.

Comprehensive Solutions for Today’s Agile Manufacturer

Industry Leading Support Available

Full System Provider
AEC can provide the full system setup including pump tanks, remote condensers, chillers, cooling towers, hybrid adiabatic systems, winter coolers, heat exchangers, filtration equipment, and temperature control units.

Technical Support & Training
AEC provides expert technical support and training, allowing customers to get the most out of their production environment.

On-Site Service
Service and support is available to provide regular maintenance and emergency service at your facility.

Parts Support
Thousands of parts in stock, ready for same day shipment including specific wear parts. Parts customer service representatives are ready to assist, ensuring you get the part you need - when you need it.

Applications
The GP Series Packaged Chillers can be used in any application that needs a constant source of cool process fluid. Typical applications include, but are not limited to, the following:

- Injection molding
- Blow molding
- Extrusion
- Thermoforming
- Machine tooling
- Metal plating
- Thermal spray
- Laser
- After-coolers (air compressors, dryers, etc.)
- Printing (offset, gravure, digital)
Tailor the GP Series for Your Installation

The GP Series Packaged Chillers are extremely versatile and include many standard options to meet your needs. From a variety of pump selections to multiple sensors, the GP chillers are extremely flexible.

The GP Series Packaged Chillers are the most versatile packaged chillers on the market. Our experienced technical sales staff can assist you in the selection of a multitude of application specific configurations designed to meet your unique application.

**Alarm Package**
The alarm package has been designed to alert operators to system warnings or faults. This top-mounted option has both audible and visual indicators. The 80dB audible alarm has multiple tone options to meet the needs of your facility. The 108k candle power fault strobe alerts the floor to a fault condition. Alarm conditions for the GP chiller include High- and Low-Process Fluid Temperature, Low Process Fluid Flow, and High- and Low-Refrigerant Pressure.

**Pump Selections**
Each GP is equipped with an ODP high flow process pump that meets many of the applications on the market today. However, some applications require additional flow or pressure based upon the existing facility system. Select from a wide variety of ODP or TEFC high flow pumps in various horse powers to meet your specific application needs.

**Sensor Package**
Select the optional Sensor package to gather additional information regarding the performance of your GP chiller. This package monitors entering condenser temperature, refrigeration suction and discharge temperature. This allows the unit to display both superheat and sub-cool values to maximize the performance of the unit and simplify any required diagnostics.

**Process Fluid Side-Stream Filter**
Systems with higher fluid particulate can cause performance issues within the chiller equipment. Install an optional 50 micron process fluid side-stream cartridge-style filter with monitoring flow meter to maximize chiller uptime and performance.

**High Pressure Fans**
Packaged air-cooled chillers reject heat through fans mounted on the top of the unit. Instead of rejecting the heat into your facility, high pressure fans can be installed to connect to an external ducting system to push the heat outside.

**Process Fluid Bypass Valve**
Include an external manually adjustable process fluid bypass valve to maintain chiller performance during periods of process reduction. Chiller flow can be diverted to the return flow in order to dilute warmer return water or to maintain operation of the chiller when the system is lightly loaded.

**Real-Time Clock Card**
The GP Series Packaged Chiller is designed to be mobile between various processes within a facility and power may be disconnected from the equipment on a regular basis. In order to avoid re-programming the time and date, a real-time clock card is available to maintain power to the controller.

**Communications**
The robust controls within the GP are also capable of multiple communication platforms depending upon the needs of your facility. Your GP chiller can be setup for LonWorks, IP BACNet, RS485 BACNet, RS485 Modbus, IP Modbus, Ethernet IP Modbus RTU, or HTML interface.

**Automatic Water Make-Up**
An optional automatic water make-up valve is available in order to maintain water levels within the fluid reservoir. This option is selected when pure water is being used within the process or if a customer supplied glycol make-up system is provided.
Tech Tip: Adding a 25 – 30% glycol solution will provide some protection from corrosion and bacterial contamination.

The GP Series Packaged Chillers are available as water-cooled, air-cooled, or remote air-cooled units. Select the right configuration for your particular needs.

Air-cooled models, both local and remote, utilize micro channel air-cooled condenser coils. This is an all-aluminum coil design constructed of multiple parallel flow aluminum tubes. These flat tubes are then brazed to highly efficient aluminum fins.

Water-cooled models can be combined with cooling towers and other existing process cooling water supplies for a superior chilling solution. The variance in condenser water temperatures between air-cooled and water-cooled models equates to a higher operating capacity for water-cooled models of the same size.
It’s All About Control

Intuitive controls simplify the operation while maximizing the unit efficiency.

Integrated into every GP Series chiller is a microprocessor based logic controller that maintains the performance of the chiller through the use of over 20 inputs and outputs. The H3 display is an intuitive user interface that continuously shows the entering and leaving fluid temperatures, the setpoint, the hot gas bypass valve percent output, the tank level, and the pump output pressure.

The H3 is tethered to the controller and has a magnetic back-plate to allow for mounting anywhere on the GP Chiller. This allows the chiller to be orientated based upon the installation environment and not the physical control placement on the chiller itself.

Real time sensor data is available on the main screen for easy performance evaluation and current operating conditions.

The intuitive menu structure has been designed for simple setup and maintenance.

Two levels of password controls protect against inadvertent setting adjustments and ensures supervisory control.

Specifications and Capacities

GP Series (Water-Cooled Circuits)

<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling Capacity @ 50° LFT</th>
<th>Minimum Load</th>
<th>Condenser Flow GPM (LPM)</th>
<th>Reservoir Cap. Gal. (L)</th>
<th>Power*</th>
<th>Dimensions in Inches (CM)</th>
<th>Shipping Wt. Lbs (Kg)</th>
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<tr>
<td>GPWC20</td>
<td>5.8 (20)</td>
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## Specifications and Capacities

### GP Series (Air-Cooled Circuits)

<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling Capacity @ 50° LFT</th>
<th>Minimum Load</th>
<th>Reservoir Cap. Gal. (L)</th>
<th>Power*</th>
<th>Dimensions in Inches (CM)</th>
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<td>60.5 (229)</td>
<td>75.5</td>
<td>80.0 (203)</td>
<td>70.0 (178) 44.0 (112) 1500 (680)</td>
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</table>

* For additional capacities at multiple LFTs, refer to the product Operation and Installation manual.

* Stated capacity data assumes 95° F ambient w/ 2.4 GPM/Ton flow, ± 5% component variance.

* MCA data is provided at 460V. Refer to the product Operation and Installation manual.

* Stated width dimensions do not include extended piping, but does include extended mounting tabs.

### GP Series (Remote-Cooled Circuits)

<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling Capacity @ 50° LFT</th>
<th>Minimum Load</th>
<th>Reservoir Cap. Gal. (L)</th>
<th>Power*</th>
<th>Dimensions in Inches (CM)</th>
<th>Shipping Wt. Lbs (Kg)</th>
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<td>21.0 (80)</td>
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<td>60.8 (154)</td>
<td>*37.0 (94) 37.0 (94) 620 (281)</td>
</tr>
<tr>
<td>GPRC40</td>
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<td>37.5 (142)</td>
<td>31.4</td>
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<td>*37.0 (94) 46.0 (117) 650 (295)</td>
</tr>
<tr>
<td>GPRC50</td>
<td>15.3 (54)</td>
<td>4.6 (16)</td>
<td>37.5 (142)</td>
<td>45.4</td>
<td>60.8 (154)</td>
<td>*37.0 (94) 46.0 (117) 840 (381)</td>
</tr>
<tr>
<td>GPRC70</td>
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<td>6.2 (22)</td>
<td>60.5 (229)</td>
<td>61.2</td>
<td>80.0 (203)</td>
<td>70.0 (178) 44.0 (112) 1455 (660)</td>
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<td>106.0 (269) 44.8 (114) 2030 (921)</td>
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<td>GPRC175</td>
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<td>106.0 (269) 44.8 (114) 2128 (965)</td>
</tr>
<tr>
<td>GPRC210</td>
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<td>123.3 (467)</td>
<td>172.6</td>
<td>61.8 (157)</td>
<td>106.0 (269) 44.8 (114) 2202 (999)</td>
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Get More From Your Production Floor

AEC brings you all the technologies you need to advance uptime, energy efficiency and performance in your operation. Turn to our technical support team to evaluate your expected system loads and load characteristics, energy and climate-related issues as well as incorporating new equipment with plastics industry equipment you already own.

AEC History

Application Engineering Company, now known worldwide as AEC has roots dating back to 1957. AEC initially began serving the plastics industry with innovative chiller and cooling tower solutions, and has established itself as the go-to solutions provider for the most challenging process cooling applications. Today, AEC continues to offer a broad portfolio of portable, packaged, and central chillers. AEC supplies innovative solutions and has grown to be a leader in process temperature control, blending, drying, conveying, and size reduction applications in plastic processing, food & pharmaceutical industries.

Aftermarket Service & Support

AEC has a service network across the United States and in several key international locations. We are focused on having the right people and products in the right places to keep our customers running efficiently. Whether you need On-Site Service, Technical Support & Training, Parts Support or even Product Repair & Refurbishment, we have you covered. Contact our team today for all of your aftermarket needs at 262-641-8600 or service@acscorporate.com.

About ACS Group

The ACS Group designs, manufactures, markets and supports one of the most comprehensive lines of auxiliary products for the plastics processing industry. Over the years, ACS Group has grown both organically through technical innovation and through acquisition. ACS Group offers an expansive product line, which includes size reduction equipment (granulators and shredders), material conveying equipment, metering and blending devices, heat exchangers (mold temperature controls units and chillers), drying systems, and hydraulic presses.