



AEC



Blending | Conveying | Drying
Process Cooling | Heat Transfer | Size Reduction

GPL Packaged Chillers

Low GWP Refrigerant Option



Improved Design

Refrigerant Options

Advanced Controls

Flexible & Versatile Units

Available in a variety of configurations from 5 to 60 tons of cooling capacity, with a broad range of available options to meet unique facility needs.

www.aecinternet.com

Improved Design

Re-engineered with the customer in mind.

Frame and panel design allows for easier maintenance access,
with a lower height for larger models for convenient transportation.

Refrigerant Options

Meet compliance with current legislation.

R-410A	Traditional
R-454B	Low GWP

Advanced Controls

Ease of operator use and monitoring of your process.

Color touch screen powered by proprietary controls.
Multiple communications options available for connectivity.

Flexible & Versatile Units

Many ways to customize to your application.

Audible / Visual alarm now included as standard.
Broad range of sizes from 5 to 60 tons to tailor your solution.

GPL SERIES PACKAGED CHILLERS

Consistent Process Cooling in a Compact, Portable Design

The GPL Packaged Chillers include all of the major chiller system components in one versatile and compact package with a to-process fluid temperature range of 20°F to 80°F (-6.7°C to 26.7°C).

Available in models from 5 to 60 tons, the GPL products offer air-cooled, water-cooled, and remoted-cooled designs to meet the needs of various manufacturing processes. The broad range of available options allows each facility to tailor a solution to meet the unique needs of their particular operation.



Industry Leading Support Available

Full System Provider

AEC can provide the full system set up including: pump tanks, remote condensers, chillers, cooling towers, 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. Customer service representatives are ready to assist, ensuring you get the part you need - when you need it.

Refrigerant Options

R-410A Traditional

R-454B Low GWP

Global Warming Potential (GWP) value of R-454B is 466, nearly an 80% reduction from R-410A GWP value of 2,088.

Applications

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:

Plastics

- Injection Molding
- Blow Molding
- Extrusion
- Thermoforming
- Composites

Non-Plastics

- Food & Beverage
- Pharmaceutical & Medical
- Chemical
- Rubber / Tire
- Metal & Die Casting
- Printing & Converting

GPL SERIES PACKAGED CHILLERS

Tailor the GPL Chiller for Your Installation

The GPL Series Packaged Chillers are extremely versatile and include many options.

Our experienced technical sales staff can assist you in the selection of a multitude of application specific configurations designed to meet your unique application.

Pump Selections

Each GPL 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 horsepower values to meet your specific application needs.

Sensor Package

Select the optional Sensor package to gather additional information regarding the performance of your GPL chiller. This package monitors entering condenser temperature, refrigeration suction temperature and refrigerant liquid 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.

Communications

The robust controls within the GPL are also capable of multiple communication options depending upon the needs of your facility. Your GPL chiller can be setup for BACNet IP, BACNet RS485, Modbus RS485, Ethernet / IP (A-B) or Profibus DP.

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.

Standard Features Included:

- Audible / Visual Alarm
- Modbus TCP / IP

Optional Features Available:

- cULus Listed Panel
- Voltages 230, 400, 575

Robust Lineup to Meet Your Unique Needs

The GPL Series Packaged Chillers are available in many configurations.



GPL05A
GPL07A



GPL10A
GPL15A



GPL20A
GPL25A
GPL30A



GPL40A
GPL50A



GPL60A

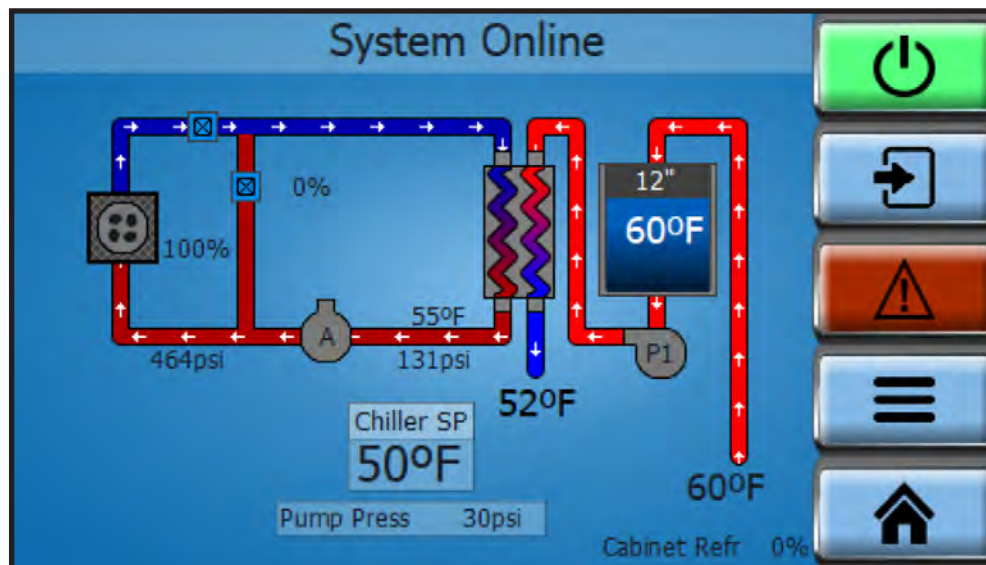
(Air-Cooled Models Pictured)

GPL SERIES PACKAGED CHILLERS

Advanced Controls

Intuitive controls simplify the operation while maximizing the unit efficiency.

Integrated into every GPL Series chiller is an advanced microprocessor controller with a color touch screen. The GPL monitors performance via set point, key parameters, and multiple system status screens.



The controller keeps an alarm history that is time and date stamped. There are also multiple faults built-in to the controller including: no flow, tank level, temperature, suction, discharge, compressor, and overload of fan, VFD or pump.

Safety Features Included as Standard

- Alarm with a 103 db audible and red fault light. This alarm is triggered by conditions including:
 - High & low water temperature
 - Low water flow
 - High & low refrigerant pressure
- Dry contact for integration with customer's alarm
- Refrigerant leak detector for units using R-454B

Specifications and Capacities

GPL (Air-Cooled Circuits, 60 hz)

Model Number	Net Cooling Capacity 410A ¹ 60 hz Tons	Net Cooling Capacity 454B ¹ 60 hz Tons	Standard Pump HP	Power ²	Dimensions in Inches			
				FLA	Height	Width	Depth	Shipping Wt. ³ Lbs
GPL05A	5.0	4.7	1.5	12.1	77	43	43	550
GPL07A	7.3	7.0	2	18.6	77	43	43	725
GPL10A	10.1	9.7	2	22.4	87	47	54	775
GPL15A	14.6	14.1	3	30.6	87	47	54	975
GPL20A	20.8	20.0	5	48.0	87	47	94	1700
GPL25A	26.2	25.4	5	52.7	87	47	94	1775
GPL30A	29.6	28.5	5	59.1	87	47	94	2000
GPL40A	41.2	39.1	5	76.1	84	47	135	2650
GPL50A	47.9	46.0	5	88.9	84	47	135	2900
GPL60A	61.7	59.0	5	113.1	88	50	175	3350

1.) Net Cooling Capacity Available @50F LWT and 95°F ambient air temperature with standard pump (60 hz)

2.) Full load amperage (FLA) @460/3/60 with standard pump

3.) Shipping weight estimated, actual weight determined at time of shipment

GPL (Water-Cooled Circuits, 60 hz)

Model Number	Net Cooling Capacity 410A ¹ 60 hz Tons	Net Cooling Capacity 454B ¹ 60 hz Tons	Standard Pump HP	Power ²	Dimensions in Inches			
				FLA	Height	Width	Depth	Shipping Wt. ³ Lbs
GPL05W	5.5	5.1	1.5	11.0	74	43	43	550
GPL07W	8.2	7.8	2	16.5	74	43	43	725
GPL10W	11.1	10.5	2	20.3	85	47	54	775
GPL15W	16.5	15.4	3	27.2	85	47	54	975
GPL20W	22.0	20.8	5	41.2	86	47	95	1725
GPL25W	28.7	27.2	5	45.9	86	47	95	1875
GPL30W	33.2	31.1	5	52.3	86	47	95	2125
GPL40W	45.0	41.7	5	65.9	83	47	135	2400
GPL50W	54.1	50.7	5	78.7	83	47	135	2475
GPL60W	69.8	64.8	5	99.5	83	47	135	2625

1.) Net Cooling Capacity Available @50F LWT and 85°F entering condenser water temperature with standard pump (60 hz)

2.) Full load amperage (FLA) @460/3/60 with standard pump

3.) Shipping weight estimated, actual weight determined at time of shipment

See "Technical Specifications" for further details.

Get More From Your Production Floor

AEC brings you all the technologies you need to advance uptime, energy efficiency and performance in your operation by offering a full line of cooling towers, central chillers, portable chillers and pump tanks. 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 chillers and process heating 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.



Let us help you with your application. Contact our application engineers at:

ACS Group | 2900 South 160th Street, New Berlin, WI 53151

P: 1.262.641.8600 **E:** info@acscorporate.com **W:** acscorporate.com