

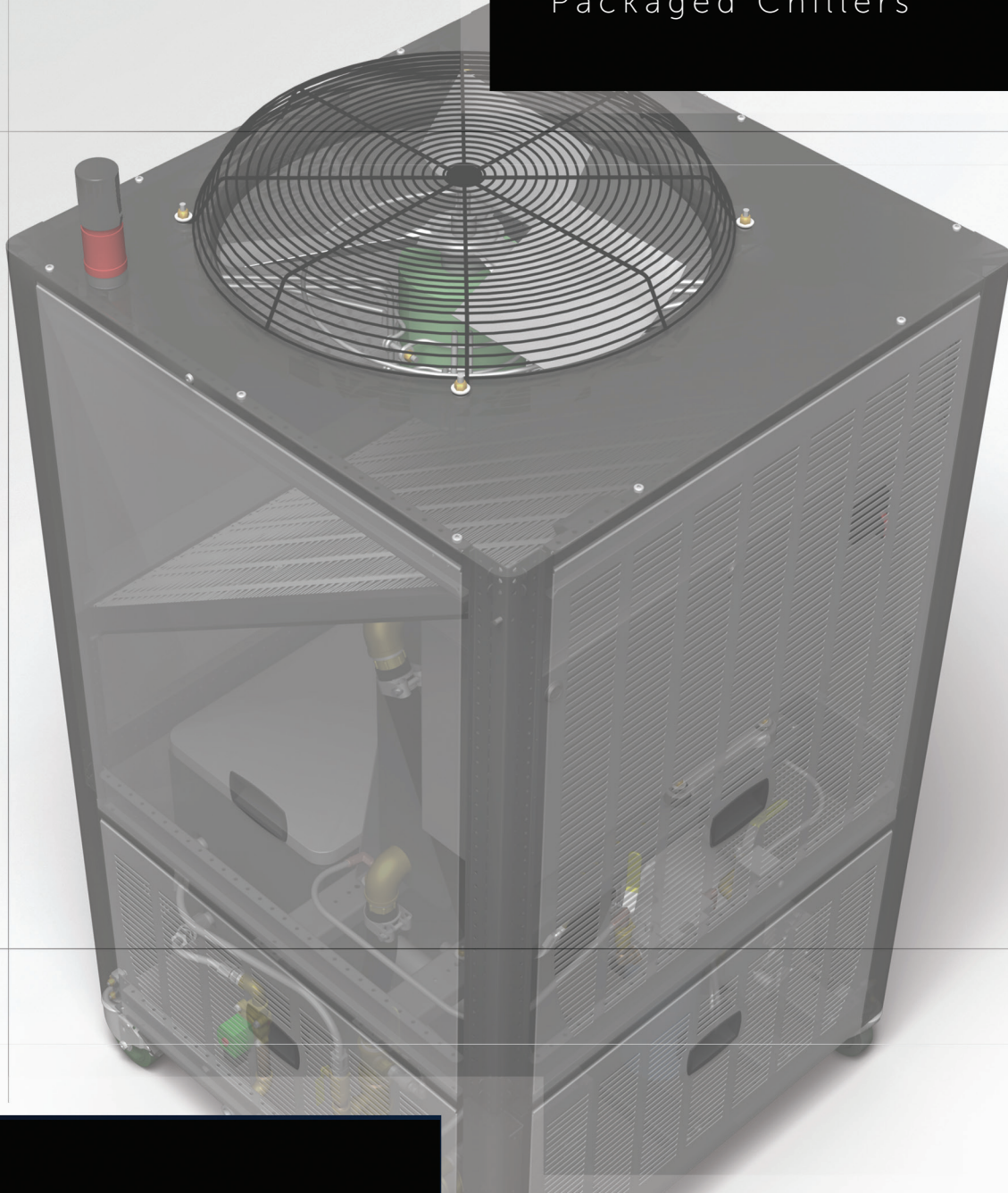


STERLING

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

GP SERIES

Packaged Chillers



Comprehensive

Flexible

Versatile

Compact unitary designs

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

www.sterlco.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

Comprehensive Solutions for Today's Agile Manufacturer

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.



Industry Leading Support Available

Full System Provider

Sterling can provide the full system set up including pump tanks, remote condensers, chillers, cooling towers, hybrid adiabatic systems, winter coolers, heat exchangers, filtration equipment, and temperature control units.

Technical Support & Training

Sterling 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.

Optional Features
Shown

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.



GPAC20
Air-Cooled

GPWC20
Water-Cooled

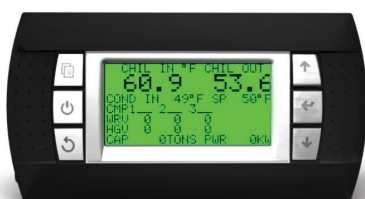
GPRC20
Remote Air-Cooled

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)

Model	Cooling Capacity @ 50° LFT	Minimum Load	Condenser Flow GPM (LPM)	Reservoir Cap. Gal. (L)	Power*	Dimensions in Inches (CM)			
					MCA	Height	*Width	Depth	Shipping Wt. Lbs (Kg)
GPWC20	5.8 (20)	1.7 (6)	15 (57)	21.0 (80)	16.3	60.8 (154)	35.0 (89)	35.0 (89)	520 (236)
GPWC30	8.4 (30)	2.5 (9)	24 (91)	21.0 (80)	24.8	60.8 (154)	35.0 (89)	35.0 (89)	700 (318)
GPWC40	11.5 (40)	3.5 (12)	33 (125)	37.5 (142)	29.3	60.8 (154)	35.0 (89)	44.0 (112)	760 (345)
GPWC50	17.0 (60)	5.1 (18)	50 (190)	37.5 (142)	42.0	79.3 (201)	35.0 (89)	44.0 (112)	950 (431)
GPWC70	23.1 (81)	6.9 (24)	68 (258)	60.5 (229)	57.0	80.0 (203)	70.0 (178)	44.0 (112)	1715 (778)
GPWC90	28.6 (101)	8.6 (30)	85 (322)	60.5 (229)	71.3	80.0 (203)	70.0 (178)	44.0 (112)	1850 (839)
GPWC105	33.6 (118)	10.1 (35)	101 (383)	60.5 (229)	82.0	80.0 (203)	70.0 (178)	44.0 (112)	2120 (962)
GPWC140	43.8 (154)	13.1 (46)	130 (493)	123.3 (467)	92.0	61.8 (157)	106.0 (269)	44.8 (114)	2380 (1080)
GPWC175	54.9 (193)	16.5 (58)	163 (618)	123.3 (467)	124.0	61.8 (157)	106.0 (269)	44.8 (114)	2460 (1116)
GPWC210	70.6 (248)	21.2 (74)	212 (804)	123.3 (467)	159.0	61.8 (157)	106.0 (269)	44.8 (114)	2617 (1187)

Specifications and Capacities

GP Series (Air-Cooled Circuits)

Model	Cooling Capacity @ 50° LFT	Minimum Load	Reservoir Cap. Gal. (L)	Power*	Dimensions in Inches (CM)			
				MCA	Height	*Width	Depth	Shipping Wt. Lbs (Kg)
GPAC20	5.2 (18)	1.6 (5)	21.0 (80)	17.7	63.5 (161)	35.0 (89)	35.0 (89)	520 (236)
GPAC30	7.6 (27)	2.3 (8)	21.0 (80)	26.9	82.0 (208)	35.0 (89)	35.0 (89)	700 (318)
GPAC40	10.3 (36)	3.1 (11)	37.5 (142)	31.4	81.0 (206)	35.0 (89)	44.0 (112)	760 (345)
GPAC50	15.3 (54)	4.6 (16)	37.5 (142)	45.4	99.5 (253)	35.0 (89)	44.0 (112)	950 (431)
GPAC70	20.7 (73)	6.2 (22)	60.5 (229)	61.2	81.0 (206)	70.0 (178)	44.0 (112)	1680 (762)
GPAC90	25.7 (90)	8.6 (30)	60.5 (229)	75.5	81.8 (208)	70.0 (178)	44.0 (112)	1760 (798)
GPAC105	30.3 (107)	10.1 (35)	60.5 (229)	88.8	100.3 (255)	70.0 (178)	44.0 (112)	1990 (903)
GPAC140	39.5 (139)	11.9 (42)	123.3 (467)	114.0	82.0 (208)	106.0 (269)	44.8 (114)	2644 (1199)
GPAC175	49.6 (174)	14.9 (52)	123.3 (467)	134.2	100.5 (255)	106.0 (269)	44.8 (114)	2880 (1306)
GPAC210	63.5 (223)	19.1 (67)	123.3 (467)	172.6	100.5 (255)	141.0 (358)	44.8 (114)	3346 (1518)

GP Series (Remote-Cooled Circuits)

Model	Cooling Capacity @ 50° LFT	Minimum Load	Reservoir Cap. Gal. (L)	Power*	Dimensions in Inches (CM)			
				MCA	Height	*Width	Depth	Shipping Wt. Lbs (Kg)
GPRC20	5.2 (18)	1.6 (5)	21.0 (80)	17.7	60.8 (154)	*37.0 (94)	*37.0 (94)	440 (200)
GPRC30	7.6 (27)	2.3 (8)	21.0 (80)	26.9	60.8 (154)	*37.0 (94)	*37.0 (94)	620 (281)
GPRC40	10.3 (36)	3.1 (11)	37.5 (142)	31.4	60.8 (154)	*37.0 (94)	*46.0 (117)	650 (295)
GPRC50	15.3 (54)	4.6 (16)	37.5 (142)	45.4	60.8 (154)	*37.0 (94)	*46.0 (117)	840 (381)
GPRC70	20.7 (73)	6.2 (22)	60.5 (229)	61.2	80.0 (203)	70.0 (178)	44.0 (112)	1455 (660)
GPRC90	25.7 (90)	8.6 (30)	60.5 (229)	75.5	80.0 (203)	70.0 (178)	44.0 (112)	1500 (680)
GPRC105	30.3 (107)	10.1 (35)	60.5 (229)	88.8	80.0 (203)	70.0 (178)	44.0 (112)	1610 (730)
GPRC140	39.5 (139)	11.9 (42)	123.3 (467)	114.0	61.8 (157)	106.0 (269)	44.8 (114)	2030 (921)
GPRC175	49.6 (174)	14.9 (52)	123.3 (467)	134.2	61.8 (157)	106.0 (269)	44.8 (114)	2128 (965)
GPRC210	63.5 (223)	19.1 (67)	123.3 (467)	172.6	61.8 (157)	106.0 (269)	44.8 (114)	2202 (999)

GP Series (Remote Condensers)

Model	Nominal Capacity Tons (Kw)	Condenser Sections	Total CFM	Dimensions in Inches (CM)			
				Height	Width	Depth	Shipping Wt. Lbs (Kg)
RC20	5 (20)	1	4,230	58.5 (149)	37.6 (96)	37.6 (96)	221 (100)
RC30	7.5 (30)	1	6,343	77.0 (196)	37.6 (96)	37.6 (96)	277 (126)
RC40	10 (40)	1	8,458	57.5 (146)	37.6 (96)	46.6 (118)	287 (130)
RC50	15 (50)	1	12,687	76.0 (193)	37.6 (96)	46.6 (118)	371 (168)
RC70	20 (70)	2	16,916	57.5 (146)	70.1 (178)	44.0 (112)	692 (314)
RC90	25 (90)	2	25,374	57.5 (146)	70.1 (178)	44.0 (112)	710 (322)
RC105	30 (106)	2	25,374	76.0 (193)	70.1 (178)	44.0 (112)	815 (370)
RC140	40 (140)	3	38,061	57.6 (146)	105.1 (267)	44.0 (112)	927 (421)
RC175	50 (175)	3	38,061	76.0 (193)	107.8 (274)	46.6 (118)	1097 (498)
RC210	60 (210)	4	50,748	76.0 (193)	142.8 (363)	46.6 (118)	1369 (621)

* 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.

* Shipping weight does not include packaging materials, such as pallets, cardboard, etc.

* 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.

Get More From Your Production Floor

Count on Sterling to bring 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.

Sterling History

Sterling has been an innovator in the industry for over 100 years. Mold temperature control units continue to be called "Sterlcos" because when you bring such an important product to market, the name sticks. Sterling brings a reputation of quality and unmatched reliability. As the industry leader, Sterling provides the largest line of process heating and cooling TCU's, chillers, and cooling systems. Sterling supplies innovative solutions to a wide range of process industries, and has grown to be a leader in blending, drying, conveying, and size reduction equipment.

Aftermarket Service & Support

Sterling 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.



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