

# TRIDENT™ GS SERIES

Central Chiller



*Compact*

*Innovative*

*Capable*

**Innovative and compact designs** with 50 to 120 Individual circuit chilling tons and the ability to parallel up to five circuits.

# Trident™ Solutions Tailored for Your Process.

Applications and processes are as unique as the products they produce. The Trident™ GS Series Central Chiller has a variety of options available to adapt the unit to your individual needs.



#### Shell & Tube Evaporator

Designed for continuous operation in high particulate water applications.



#### Alarm Package

Integrate audible/visual warning and fault indicators for your chilling system.



#### Sensor Arrays

Various configurations of sensors for complete unit and system control.



#### Communications

From Modbus, BACnet, to web enabled control, choose the right communication option for your installation.



#### Water Manifolds

Evaporator and condenser manifold sets for complete unit connectivity.



#### H<sup>3</sup> Display

Removable chiller HMI with LCD display and magnetic backing.



#### Evolution Display

Connect directly to the chiller controls for direct programming.



#### Extended Warranty

Additional 4 years of compressor warranty protection.

## Trident™ Solutions Tailored for Your Process.

The Trident™ GS Series Modular Central Chiller integrates advanced technologies with proven component design to offer a capable and innovative process chilling solution.

The state-of-the-art controls provide the operator with intuitive command structures while offering critical unit performance data in understandable dashboard sets. Individual circuit capabilities range from 50 tons to 120 tons of cooling capacity. Each circuit has the ability to parallel with other Trident™ circuits of the same size for maximum system scalability. Drone circuits offer market leading connectivity, as every unit has the same control set. This allows the Trident™ to offer the ultimate plug and play capability available. In addition to scaling the number of circuits, to a maximum of five, the product also offers one-button integration with AEC pump tanks.



Trident™ GS Series Modular Central Chiller

### Reliable and versatile chilling technology to meet the needs of today's complex processes.

- 1. Compact Size:** The Trident™ provides for maximum chilling capacity in a space-saving package.
- 2. Robust Capability:** Intuitive controls allow for simple operation and straightforward scalability.
- 3. Innovative Technology:** Maximizing efficiencies through intelligent design, advanced connectivity controls, and virtually effortless maintenance.

The intuitive touchscreen controls, combined with the proven capabilities of dual screw compressor technology, provides a highly efficient, compact chiller design. Right-size your cooling system for the reality of today while still planning for your future. Available as either water-cooled or air-cooled models, the Trident™ GS Series Central Chiller can meet the needs of your process.

### Applications

This series of central 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 tool
- Metal plating
- Thermal spray
- Laser
- After-coolers (air compressors, dryers, etc.)
- Printing (offset, gravure, digital)



**Tech Tip:** Use the QR Code located on the unit to quickly access current product manuals and up-to-date technical information.

## The New Standard in Reliability and Ease-of-Use.

The Trident™ product offering has been developed with the future growth of your application in mind.

As facility needs change, additional units can be paralleled to reach desired cooling requirements. In a master/drone configuration, a total of five units can be paralleled to provide up to 600 tons of chilling capacity. Each circuit is controlled on the master unit's Trident™ advanced operator panel while the user has the ability to review the specifics of the performance for each circuit. This capability allows for the right-sizing of cooling circuits in the present, minimizing expense and maximizing current profitability.

### Maximum Uptime

To maximize system uptime, a master/drone circuit configuration provides inherent redundancy. In the event an individual circuit needs to be placed offline, the system will adjust and continue to operate as needed. If it is the master unit that requires maintenance, any drone circuit can be quickly programmed to be the master so the system remains functional.

Integrated directly into the evaporator, TS Tech™, allows for rapid tool-less access to the strainer for cleaning. Replaceable refrigerant filter dryers are easily accessible, allowing for rapid changes and limited down time. Standard brazed-plate evaporators include back-flushing ports to quickly clean evaporator channels, ensuring continuous efficient operation of the chiller as a whole.

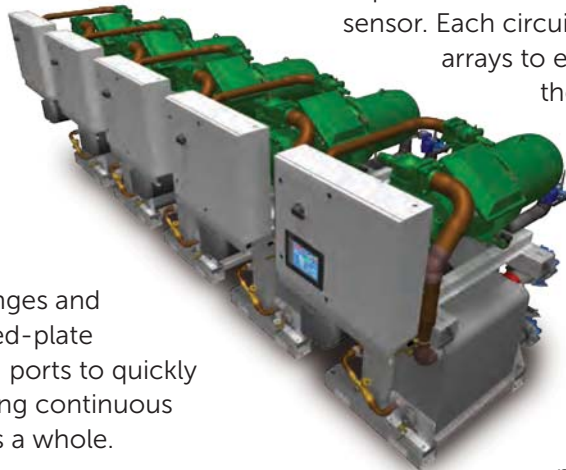
### Infinite Slide Valve Control

The advantage of a screw compressor design is the ability of the unit to unload without the use of a hot gas bypass. The compressor is able to run at lower loads, while avoiding unit cycling.

### Intelligent Usage

The Trident™ GS Series Central Chiller utilizes a multitude of intelligent functions to allow users to efficiently and effectively manage their cooling system. Standard to each master unit, operators are able to select cooling by the chilled fluid out temperature, the chilled fluid in temperature, or even through an optional remote process sensor. Each circuit employs all of the standard sensor arrays to ensure proper functionality while

the master unit ensures even run time between individual compressors. Energy saving components, standard on each Trident™ circuit, allow for optimum settings for units to run efficiently. While air-cooled units utilize variable frequency drives to manage condenser fans, water-cooled units employ water-regulating valves to reduce energy consumption as process needs allow. The electronic expansion valve, EEV, intelligently manages the flow of refrigerant through the evaporator and the chiller to ensure efficient operation of the system.



Trident™ GS Series in a five unit master/drone configuration



**Tech Tip:** By sizing manifolds for potential process requirements, future system expansion will be simpler with less maintenance time.

# Reduce Service Downtime with TS Tech™

The tool-less strainer technology significantly reduces service time by providing easy access to the strainer.

Service and maintenance of the Trident™ Chiller is paramount to efficient operation. In recognition of the time and effort necessary to service and clean the traditional Y-Strainer, the Trident™ GS Series Central Chiller offers TS Tech™. Service personnel do not require any tools for strainer access. The newly designed strainer also has significantly more straining surface area, increasing the time between required cleanings. Integrated TS Tech™ keeps the Trident™ Chiller up and running longer while reducing labor hours.

**TS Tech™ features a much larger strainer surface, improving performance and reducing time between cleaning.**



**Tech Tip:** To maximize system uptime, we recommend purchasing an additional strainer for quicker replacement.

## How TS Tech™ Works.



Step 1: Remove containment clip.



Step 2: Remove strainer assembly cover.



Step 3: Remove strainer & clean.

## Robust Capability. Scalable Solutions.

The Trident™ advanced operator panel offers easy to understand unit controls. The intuitive function of the touch screen allows users to easily adjust leaving fluid temperature (LFT), manually enable individual circuits, and even add additional drone circuits. As close to plug and play as possible, the Trident™ quickly and easily adds pump tanks or drone circuits.

### Integrated Compressor Technologies

The Trident™ GS Series Central Chiller takes full advantage of integrated features of the highly reliable screw compressor. A significant advantage of the screw compressor design is the ability to operate at lower process loads, virtually eliminating unit cycling. To protect itself from increased current draws, the winding temperature is actively monitored to avoid motor failure. The Trident™ compressor automatically shuts down in the case of phase reversal, protecting the unit from backwards operation and potential catastrophic failure. At the same time, should the facility lose a phase, the unit will again shut down to protect the compressor from damage. Should the process encounter an issue causing increased refrigerant pressure within the compressor, an integrated high pressure safety will activate, shutting the compressor down.

### Flexible Usage and Administration

The Trident™ GS Series Chiller controls feature intuitive control options to actively manage and monitor your process cooling application. Master control units are offered with an advanced operator panel, where multiple levels of access can be granted to operators, supervisors, and technicians.

### Advanced Monitoring and Reporting

The display features advanced monitoring of each individual circuit and a wide range of parameters including: Chill in/out temperature, suction and discharge pressure, evaporator and condenser temperature as well as overall system flow. In addition, the display can generate usage graphs and other helpful reporting features. In addition, the display allows user to monitor the operation of the VFD and the EEV, verifying the energy efficiency of the system. Superheat and subcool temperatures are also prominent on the operator panel, ensuring efficient chiller operation.

**Connectivity:** The Trident™ offers remote access to the advanced operator panel through wi-fi to a computer, tablet, or smartphone. Plant Managers can monitor the machine from anywhere.



**Tech Tip:** For complete 100% effective redundancy, we recommend purchasing both the evolution and H<sup>3</sup> displays.

## Robust, Easy-to-use Touch Screen.



Each circuit provides real-time sensor data to help gauge system performance.



Convenient graphs of each circuit provide overall performance trends.



Component view shows flow parameters on each circuit, divided by component regions.

# Innovative Technology.

As part of the ACS Group, AEC brings you all the help and products you need to put together a state-of-the-art, high-performing facility.

## Convenient QR Code Provides Quick Access to Useful Information

Every Trident™ Chiller provides a QR Code on the unit for easy access of the most up-to-date technical information available. Operators and technicians can access the manuals from any smartphone or tablet to view installation, operation, and maintenance manuals or to receive the most recent tips and training available for the product.



## Fault and Warning Data

Up to 50 alarms are stored within the unit, recording all of the relevant data at the time of the event. This allows for better system and unit diagnosis and a faster time to resolution. By recording the time of the event, corresponding facility activities or events can be traced and faults can be corrected.

## It's not just about selecting from a comprehensive array of proven equipment, it's also about:

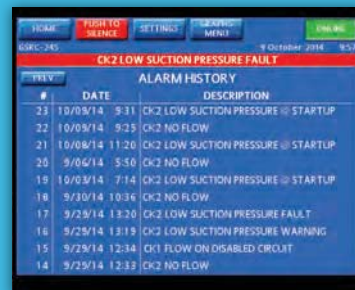
1. Seamless integration with your operation, powered by expert system design with 3D modeling, taking into consideration your current production needs and ensuring your success for the advanced growth.
2. Efficient implementation, on your schedule, through project management with web-based tools.
3. Easy startup and operation, supported by our experienced technical team.



Easy-to-read current operating conditions.



Wide array of options including default units of measurement and user configuration.



Comprehensive alarm history includes time/date stamp for accurate situational diagnostics.

## Configurations

The Remote Condensers provided with the air-cooled Trident™ Chillers offer a compact solution in a sleek design.

The highly efficient condenser sections are as attractive as they are functional. The compact design is an excellent addition to any facility with remote condenser needs.

These sections utilize all-aluminum micro channel air-cooled condensers, eliminating galvanic corrosion with copper tube and aluminum fin coils while reducing the amount of refrigerant required. Condenser fans are controlled by variable frequency drives for maximum head pressure control and superior energy efficiency. Besides being compact and efficient, these remote condensers are rated down to -20°F ambient.



Remote condenser inlet air filters are easily accessible and washable.



Air-cooled design



Water-cooled design

### Water-cooled efficiency.

Water-cooled configurations are an excellent option for facilities with existing process cooling water supplies. These chiller models have a more efficient operation leading to increased operating capacity.

## Optional Features.

### Sensors

#### Flow Sensor

Integrated into the chilled water line, the flow sensor can assist in monitoring individual circuit flows.

#### Condenser Out Temperature Sensor

*Water-cooled models only.*

Verify fluid temperature at the output of the condenser.

#### To or From Process Temperature Sensors

Thermal sensor and fitting provided as a loose component for remote installation on the process piping. Chiller output may also be controlled with this sensor option.

#### Chill In / Chill Out Pressure

Pressure sensors on the input and output of the evaporator for manual determination of pressure drops.

#### Evaporator Pressure Differential

Provides a warning should the pressure difference between the input and the output of the evaporator become too great. Excellent for determining a maintenance schedule for the TS Tech™ strainer.



## TRIDENT™ GS Series (Water-cooled)

Model	Cooling Capacity Tons @ 50° LFT (Kw)	Minimum Load Tons (Kw)	Condenser Water Flow GPM (LPM)	Power		Dimensions in Inches (CM)			Shipping Wt. Lbs (Kg)
				MCA	MOP	Height	Width	Depth	
GSWC175	51.2 (180)	19.9 (70)	153 (579)	92	165	79.0 (201)	36.0 (92)	96.4 (245)	2488 (1129)
GSWC210	61.7 (217)	23.8 (84)	187 (708)	101	181	79.0 (201)	36.0 (92)	102.3 (260)	2901 (1316)
GSWC245	68.3 (240)	28.7 (101)	213 (806)	123	222	79.0 (201)	36.0 (92)	103.9 (264)	2931 (1330)
GSWC280	77.9 (274)	30.8 (108)	242 (916)	133	239	79.0 (201)	36.0 (92)	104.0 (265)	3209 (1456)
GSWC350	100.0 (352)	30.9 (109)	304 (1151)	131	235	79.0 (201)	36.0 (92)	111.0 (282)	4000 (1815)
GSWC420	120.4 (423)	42.2 (148)	375 (1420)	183	328	79.0 (201)	36.0 (92)	114.4 (291)	4287 (1945)

\* For additional capacities at multiple LFTs, refer to the product Operation and Installation manual  
 \* Stated capacity data assumes 85° F condenser water w/ 2.4 GPM/Ton flow, ± 5% component variance  
 \* Shipping weight does not include packaging materials, such as pallets, cardboard, etc.

## TRIDENT™ GS Series (Air-cooled)

Model	Cooling Capacity Tons @ 50° LFT (Kw)	Minimum Load Tons (Kw)	Power		Dimensions in Inches (CM)			Shipping Wt. Lbs (Kg)
			MCA	MOP	Height	Width	Depth	
GSRC175	46.6 (164)	13.7 (48)	122	210	79.0 (201)	36.0 (92)	80.5 (205)	1904 (864)
GSRC210	54.9 (193)	15.7 (55)	138	235	79.0 (201)	36.0 (92)	84.6 (215)	2304 (1046)
GSRC245	62.5 (220)	18.9 (66)	121	205	79.0 (201)	36.0 (92)	82.8 (211)	2342 (1063)
GSRC280	70.2 (247)	21.5 (76)	145	246	79.0 (201)	36.0 (92)	83.6 (213)	2619 (1188)
GSRC350	90.0 (317)	25.1 (88)	171	290	79.0 (201)	36.0 (92)	87.8 (223)	3346 (1518)
GSRC420	111.2 (391)	34.9 (123)	225	382	79.0 (201)	36.0 (92)	90.5 (230)	3428 (1555)

\* 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.

## Remote Condenser

Model	Nominal Capacity Tons (Kw)	Condenser Sections	Total CFM	Dimensions in Inches (CM)			Shipping Wt. Lbs (Kg)
				Height	Width	Depth	
RC175	50 (175)	3	38,061	76.0 (193)	107.8 (274)	46.7 (119)	1097 (498)
RC245	60-70 (210-245)	4	50,748	76.0 (193)	142.8 (363)	46.7 (119)	1369 (621)
RC280	80 (280)	5	63,436	76.0 (193)	177.9 (452)	46.7 (119)	1814 (823)
RC350*	100 (350)	6*	76,123	76.0 (193)	107.8 (274)	134.8 (343)	2244 (1018)
RC420*	120 (420)	8*	101,498	76.0 (193)	142.8 (363)	134.8 (343)	2788 (1265)

\* Remote condensers requiring more than 5 zones are shipped as two separate sets  
 \* Shipping weight does not include packaging materials, such as pallets, cardboard, etc.

### Shell and Tube Evaporator

Trident™ GS Series Chillers offer shell and tube evaporators as an option across all sizes. These larger evaporator designs are ideal for applications that have a higher fluid contaminant level. The wider channels within the shell and tube design are better able to tolerate particles within the transfer fluid. Although the standard brazed plate evaporators include built in safeties to avoid freeze issues, some applications may be better suited for the shell and tube option.

### Alarm Package

An optional top-mounted alarm system provides both audible and visual indication in the event that the Trident™ GS Series Chiller needs attention. The amber warning light alerts an operator to a potential issue while the unit continues to operate, while the red fault strobe alerts an operator to a unit shut down. The audible portion of the alarm can be configured for different decibel levels to meet the needs of your facility.

### Communications

From Modbus to BACnet, the Trident™ Chiller can be set up to meet the communication needs of your facility. Integrated TCP/IP addressing allows for the unit to connect directly to your network. As long as the unit is connected, control of the advanced operator panel can be managed from a wireless device such as a tablet. The same controls found on the panel itself are available directly on a smartphone or tablet.

### Water Manifolds

Manifold assemblies are available for both condensers and evaporators on water-cooled units, and evaporators only on air-cooled units. They may be shipped as separate components, or when purchasing a two unit system, PVC manifolds can be manufactured with the units for a complete assembly shipment.

# TRIDENT™ GS SERIES

## Specifications and Capacities

### TRIDENT™ GS Series (Water-cooled)

Model	LFT °F	Glycol %	Capacity Tons	Flow GPM	Comp Power kW	Comp Amps @460V	EER BTUH/W
GSWC-175	20	30	24.8	66	37.67	54.9	7.90
	25	30	28.0	74	37.29	54.4	9.01
	30	30	32.1	85	37.07	54.2	10.38
	35	30	35.7	95	36.93	54.0	11.61
	40	30	40.4	107	36.94	54.0	13.13
	45	0	45.4	109	36.98	54.1	14.74
	50	0	51.2	123	37.14	54.3	16.54
	55	0	55.4	133	38.21	55.5	17.40
	60	0	61.4	148	39.32	56.8	18.74
65	0	66.6	160	40.49	58.2	19.73	

Model	LFT °F	Glycol %	Capacity Tons	Flow GPM	Comp Power kW	Comp Amps @460V	EER BTUH/W
GSWC-210	20	30	30.5	81	45.63	66.1	8.01
	25	30	33.9	90	45.40	65.9	8.96
	30	30	38.9	103	45.22	65.7	10.33
	35	30	43.0	114	45.21	65.6	11.41
	40	30	49.1	130	45.15	65.6	13.04
	45	0	54.6	131	45.23	65.7	14.48
	50	0	61.7	148	45.29	65.8	16.34
	55	0	66.5	160	46.43	67.1	17.19
	60	0	73.9	178	47.61	68.4	18.64
65	0	79.2	190	48.76	69.8	19.49	

Model	LFT °F	Glycol %	Capacity Tons	Flow GPM	Comp Power kW	Comp Amps @460V	EER BTUH/W
GSWC-245	20	30	33.6	89	52.31	75.1	7.72
	25	30	37.9	101	51.97	74.7	8.75
	30	30	43.1	114	51.81	74.5	9.99
	35	30	48.1	127	51.74	74.5	11.15
	40	30	54.2	143	51.79	74.5	12.56
	45	0	61.0	146	51.87	74.6	14.12
	50	0	68.3	164	51.96	74.7	15.78
	55	0	74.3	178	53.32	76.3	16.73
	60	0	82.0	197	54.66	77.9	18.01
65	0	88.9	214	55.86	79.3	19.09	

Model	LFT °F	Glycol %	Capacity Tons	Flow GPM	Comp Power kW	Comp Amps @460V	EER BTUH/W
GSWC-280	20	30	38.4	102	59.57	85.1	7.74
	25	30	42.6	113	59.21	84.7	8.63
	30	30	49.1	130	59.03	84.5	9.98
	35	30	54.1	143	58.95	84.4	11.01
	40	30	62.0	164	58.97	84.4	12.61
	45	0	68.4	164	59.05	84.5	13.89
	50	0	77.9	187	59.26	84.7	15.77
	55	0	83.5	200	60.78	86.5	16.48
	60	0	92.9	223	62.36	88.4	17.88
65	0	99.5	239	63.91	90.3	18.68	

Model	LFT °F	Glycol %	Capacity Tons	Flow GPM	Comp Power kW	Comp Amps @460V	EER BTUH/W
GSWC-350	20	30	49.9	133	72.58	98.6	8.26
	25	30	55.8	148	72.13	98.1	9.29
	30	30	63.2	168	71.97	97.9	10.54
	35	30	70.6	187	71.81	97.7	11.79
	40	30	79.9	211	71.88	97.7	13.34
	45	0	89.0	213	71.98	97.9	14.84
	50	0	100.2	240	72.18	98.1	16.65
	55	0	108.3	260	73.93	100.3	17.58
	60	0	119.9	288	75.82	102.7	18.98
65	0	129.0	310	77.69	105.1	19.92	

Model	LFT °F	Glycol %	Capacity Tons	Flow GPM	Comp Power kW	Comp Amps @460V	EER BTUH/W
GSWC-420	20	30	61.0	162	91.50	131.1	8.00
	25	30	67.6	180	90.78	130.2	8.94
	30	30	76.8	203	90.21	129.6	10.21
	35	30	85.3	226	90.01	129.3	11.37
	40	30	96.0	254	89.92	129.2	12.81
	45	0	107.5	257	89.86	129.1	14.36
	50	0	120.4	289	90.23	129.6	16.01
	55	0	130.8	314	92.69	132.5	16.94
	60	0	145.3	349	94.95	135.3	18.37
65	0	156.1	376	97.46	138.3	19	

\* Inhibitor levels in glycol solutions less than 25–30% may not provide adequate corrosion protection. Solutions of glycol less than 20% may be at risk for bacterial contamination.

\* The above information is typical and application-specific results may vary. Due to usage beyond the control of ACS Group, performance results from use of this information is not guaranteed.

# Specifications and Capacities

## TRIDENT™ GS Series (Air-cooled)

Model	LFT °F	Glycol %	Capacity Tons	Flow GPM	Comp Power kW	Comp Amps @460V	EER BTUH/W
GSRC-175	20	30	22.7	60	39.88	59.7	6.82
	25	30	25.5	68	40.41	60.3	7.56
	30	30	29.3	78	41.01	60.9	8.56
	35	30	32.5	86	41.60	61.6	9.38
	40	30	36.9	97	42.24	62.3	10.48
	45	0	41.3	99	43.00	63.2	11.53
	50	0	46.6	112	43.72	64.0	12.78
	55	0	50.7	122	44.96	65.4	13.54
	60	0	55.9	134	46.70	67.4	14.36
65	0	60.2	145	48.49	69.4	14.89	

Model	LFT °F	Glycol %	Capacity Tons	Flow GPM	Comp Power kW	Comp Amps @460V	EER BTUH/W
GSRC-210	20	30	25.8	69	48.97	71.2	6.33
	25	30	29.1	77	49.68	72.1	7.04
	30	30	33.7	89	50.42	72.9	8.02
	35	30	37.5	99	51.19	73.8	8.79
	40	30	42.9	113	52.02	74.8	9.90
	45	0	48.2	115	53.08	76.0	10.90
	50	0	54.9	132	54.10	77.2	12.17
	55	0	59.6	143	55.76	79.1	12.82
	60	0	66.1	159	58.18	82.0	13.63
65	0	71.7	173	60.14	84.3	14.31	

Model	LFT °F	Glycol %	Capacity Tons	Flow GPM	Comp Power kW	Comp Amps @460V	EER BTUH/W
GSRC-245	20	30	30.1	80	54.85	79.5	6.59
	25	30	33.8	90	55.72	80.5	7.28
	30	30	38.9	103	56.70	81.7	8.24
	35	30	43.2	114	57.71	82.9	8.99
	40	30	49.5	131	58.77	84.1	10.11
	45	0	55.1	132	60.04	85.7	11.00
	50	0	62.5	150	61.20	87.0	12.25
	55	0	67.9	163	62.97	89.2	12.94
	60	0	75.0	180	65.77	92.6	13.68
65	0	80.5	194	68.15	95.5	14.18	

Model	LFT °F	Glycol %	Capacity Tons	Flow GPM	Comp Power kW	Comp Amps @460V	EER BTUH/W
GSRC-280	20	30	33.9	90	62.45	87.0	6.51
	25	30	38.0	101	63.46	88.2	7.18
	30	30	43.8	116	64.55	89.5	8.14
	35	30	48.3	128	65.70	90.9	8.82
	40	30	55.5	147	66.92	92.3	9.95
	45	0	61.8	148	68.40	94.1	10.84
	50	0	70.2	168	69.71	95.7	12.09
	55	0	76.5	184	71.03	97.3	12.92
	60	0	85.8	206	73.14	99.9	14.08
65	0	92.0	221	75.84	103.3	14.56	

Model	LFT °F	Glycol %	Capacity Tons	Flow GPM	Comp Power kW	Comp Amps @460V	EER BTUH/W
GSRC-350	20	30	43.7	116	77.71	111.0	6.75
	25	30	49.1	130	78.70	112.2	7.49
	30	30	56.5	150	79.80	113.6	8.50
	35	30	62.7	166	80.95	115.0	9.30
	40	30	71.7	190	82.27	116.6	10.46
	45	0	79.9	191	83.74	118.4	11.44
	50	0	90.3	216	85.18	120.1	12.72
	55	0	99.0	238	86.74	122.0	13.69
	60	0	109.1	262	90.51	126.7	14.47
65	0	117.5	283	94.02	131.0	14.99	

Model	LFT °F	Glycol %	Capacity Tons	Flow GPM	Comp Power kW	Comp Amps @460V	EER BTUH/W
GSRC-420	20	30	54.2	144	99.41	142.3	6.54
	25	30	60.3	160	100.64	143.7	7.19
	30	30	69.5	184	102.10	145.5	8.17
	35	30	76.9	204	103.58	147.3	8.91
	40	30	88.1	233	105.28	149.3	10.04
	45	0	97.9	234	107.19	151.6	10.96
	50	0	111.2	267	109.09	154.0	12.24
	55	0	121.0	291	110.97	156.3	13.09
	60	0	135.6	326	114.32	160.4	14.23
65	0	145.7	350	118.41	165.4	14.77	

\* Inhibitor levels in glycol solutions less than 25–30% may not provide adequate corrosion protection. Solutions of glycol less than 20% may be at risk for bacterial contamination.

\* The above information is typical and application-specific results may vary. Due to usage beyond the control of ACS Group, performance results from use of this information is not guaranteed.

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