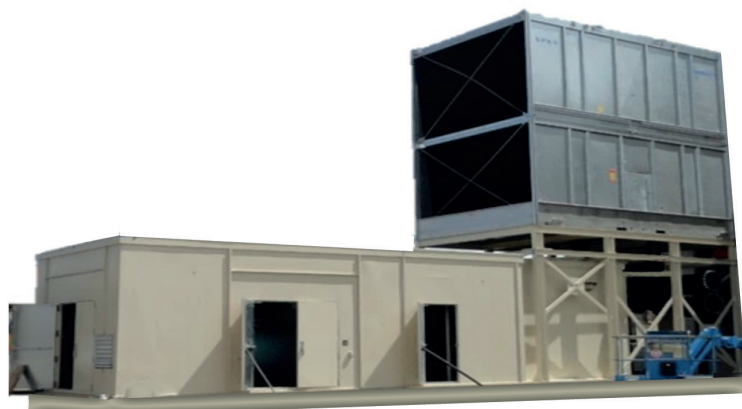


# Packaged Chiller Plants

## GRUNDFOS ENGINEERED SYSTEMS

Grundfos Engineered Systems (GES) designs and manufactures packaged chiller plants for optimal climatization. Our chiller plants incorporate Grundfos energy efficient pumping systems, a variety of chiller technologies, and condenser water systems for fully integrated modular plants. Our outdoor rated modular enclosures are designed for superior life and include lighting, convenience receptacles, and HVAC unit for equipment maintenance working conditions. Seismic and wind load rating available, along with corrosive environment coatings for conditions such as sea water.



### Key Features and Benefits

- Integration of our Grundfos premium efficient pumps. The pump on any HVAC system is the engine that drives the heating and cooling medium throughout the building.
- Utilization of the proper chiller technology custom designed for your project need, not just a catalog product.
- Fixed costs and guaranteed delivery for a major portion of your project.
- Our plants are built to be shipped to jobsite, installed quickly, and efficiently for immediate operation. Factory built plants minimize jobsite disruption and various construction delays.
- Complete electrical distribution for single-point input power connection.
- Complete structural platforms for cooling tower installations. Options include: fully integrated structure to base, side-by-side designs for low profile, or other custom designs to provide lowest overall footprint.
- Pressure testing of all finished piping and components up to 300 psi as needed by project.
- Continuity test of all 480V power wiring for proper phasing and grounding.
- Complete controls integration, from mounting customer supplied controls to Grundfos fully integrated control systems with BACNet compatibility. Integration heat exchangers, pumps, controls, control valves and accessories on a common skid base
- Engineered to order design with 3D CAD modeling
- Single source of manufacturing provides quality construction and value-added services

#### APPLICATIONS

- HVAC
- Critical cooling
- District heating and cooling

# GES Packaged Chiller Plants Technical Data

<i>Control variant</i>	<i>GES Unit</i>
<b>Hydraulic data</b>	
Maximum head ft [m]	690 ft [ 210 m]
Flow rate gpm [m <sup>3</sup> /h]	1 to 32,000 gpm (7268 m <sup>3</sup> /h)
Liquid temperature °F [°C]	0° to 125° F [-18° to 51° C]
Maximum operating pressure psi [bar]	300 psi [ 20 bar]
<b>Pump and motor data</b>	
Number of pumps	as specified
Motor power hp	1 hp to 600 hp [0.7457 KW-447.42 KW]
<b>Chiller types</b>	
Water cooled chiller	●
Air cooled chiller	○
Absorption chiller	○
<b>Chiller data</b>	
Number of chillers	as specified
Cooling Capacity	2,600 ton per module
<b>Cooling tower</b>	
Number of towers	as specified
Tower cooling Capacity	2,600 ton per module
Counter-flow induced draft tower	●
Crossflow induced draft tower	○
<b>General materials and fittings</b>	
Pipe supports	welded to frame
Decking: 3/16" gage hot rolled	●
Channel base frame	4" to 14"
<b>Piping</b>	
Carbon steel	●
Stainless steel 316/304	○
<b>Pipe connections</b>	
ANSI flange	●
Grooved	○
Threaded	○
<b>Approvals</b>	
ISO 9001	●
ETL listed	○
<b>Electrical data</b>	
VFDs	●
Power distribution	●
Controls panel	○
Instrumentation	●
<b>Options</b>	
Air Separator: ASME tangential	○
Expansion Tank: ASME, bladder	○
Insulation	○
Heat trace	○
Chilled water system Filtration	○
Cooling tower system side stream separation system/Filtration	○
Enclosure	○
Freon Monitoring and/or Purge unit	○

- Available as standard
- Available as option or accessory

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