

HCS Unit (HAC Cooling System)

GW Modular's HCS unit delivers precision cooling for data center applications by capturing hot return air, conditioning it, and delivering cooled air where it is needed at the source. Each unit is factory-built, pre-integrated, and tested for reliable performance and simplified deployment. Engineered for efficiency, reliability, and serviceability, HCS units support scalable parallel deployments to meet the demands of evolving high-density environments.



SPECIFICATIONS



140 - 270 kW

Multiple kW cooling options



Dual fan, dual coil

Redundant fan system and cooling coils



480V

Single-source power



Central controls

Real-time monitoring and visibility

KEY ADVANTAGES

- Precision cooling at source
- Factory-built package
- Scalable parallel deployment
- Compact serviceable design
- Enclosed components and integrated controls enhance safety and reliability
- High-efficiency coils and fans deliver maximum thermal performance

Let's talk about your next project.
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FEATURE BREAKDOWN, INSTALLATION DETAILS, AND ENCLOSURE OPTIONS

Installation made easy: pre-assembled, lift and set in place, connect piping, terminate power and controls, commission.

SYSTEM FEATURES

- ✓ Humidity / dew point supervisory control
- ✓ Compact footprint, low profile design
- ✓ Easy access to power / control panel
- ✓ Fully housed, enclosed construction
- ✓ Factory pre-assembled and pre-integrated package
- ✓ Multiple units can be deployed in parallel

INTERNAL COMPONENTS

- ✓ Sensing instrumentation
- ✓ Breaker / electrical section
- ✓ Centralized control panel
- ✓ Dual cooling coils
- ✓ Dual fan arrangement
- ✓ Automated control valve interface

INSTALLATION & ENCLOSURE OPTIONS

- ✓ Kits available to assist with ease of maintenance
- ✓ 4-point lift points for secure handling
- ✓ Galvanized construction options aligned with ASCE 7-05 requirements for Exposure D and Importance Factor Category
- ✓ Custom options available to meet application needs
- ✓ Factory assembled in Houston, Texas



FACTORY FAN INSTALLATION
Fan assembly installed at the factory



FACTORY MECHANICAL END VIEW
Coils, piping, and valve interface



SERVICE / ACCESS VIEW
Power, controls, and disconnect access

WHY FACTORY INTEGRATION MATTERS

GW Modular installs the HCS cooling units into the HAC assembly at our factory, not as a loose field-fit item. The cooling unit, support legs, light beams, power modules, cabinet interface clearances, chilled water piping, controls, and service access are coordinated as one integrated white-space system before delivery.

ADVANTAGE	WHAT IT MEANS
Lower field labor	Fewer loose parts, fewer handoffs, and less work inside the data hall
Better fit-up	HCS, support legs, light beams, power modules, and access clearances are checked together
Faster installation	Pre-integrated assemblies support shorter site duration and cleaner day-one deployment
Reduced risk	Factory checks catch interference, access, wiring, piping, and service issues before shipment
Repeatable quality	Controlled build process, inspection points, and documentation across each HAC row
Commissioning ready	Controls, power, airflow, and service access are planned around the final installed condition