



Trane® Creative Solutions

# Packaged Hydronic Systems

Complete System and Component Flexibility



Designed with the end user's requirements in mind, these hydronic pump packages offer reliability and efficiency. The newest technologies have been applied to the major components.

Here are some of the most common options for these systems. There is a wide flexibility on scope and components; and there's a creative solution for almost every need imaginable.



**Trailer Pump Package**

(2) RTAC170HE air cooled chillers used with trailer mounted pumping package, VFDs, Cam-Lok quick connect power panel, insulation with aluminum cladding.



**Integral Pump Package with Load Tank**

CGAM110 air cooled chiller integral pumping packaging, VFDs, air separator, expansion tank, 900 gallon load tank, heat trace, insulation with PVC jacketing.



**Pump Skid**

(2) RTAC185HE air cooled chillers with standalone pump skid, VFDs, air separator, expansion tank, 2,000 gallon load tank, valves, variable primary operation controls.

**Chilled water pumps:** one or two pumps for both primary and secondary loops

**VFDs with NEMA-3R enclosures or customized specials:** select from one or two VFDs for pump trimming/balancing or variable flow

**Triple duty valve:** provides isolation, balancing and check valve

**Suction diffuser:** straightens flow into pumps

**Air separator:** removes air from the system

**Expansion tank:** compensates for fluctuating temperatures and fluid volume

**Buffer/Load/Storage tank:** provides a two to three minute minimum loop time for low volume systems

**Single or dual power feeds:** eliminates separate feed for pumping system

**Glycol feed system:** automatic feed for loss of fluid

**Heat trace:** offers freeze protection

**Insulation:** reduces sweating on cold surfaces

**Insulation coatings:** choose from painted, PVC wrapped or aluminum jacket to enhance appearance

**Chemical pot feeder:** convenient place to add water treatment chemicals

**Flow meter:** checks flow rate on variable primary

**Bypass line and bypass valve:** maintains adequate flow through evaporator during low flow to load

**Enclosures:** select from custom solid or louvered enclosures (see next page)

**Seismic options:** select the option that meets local seismic codes

## Ice Made Easier

### PUMP COMPLETION MODULES

Take advantage of the opportunity to improve your bottom line with an Ice Completion Module (ICM). Each module includes a pre-engineered pumping system, single point power and control connection, factory mounted Trane controls, installation logistics, start-up and commissioning coordination, and warranty.

Trane makes ice easier by offering this module with a lower installed cost than other similar systems in the marketplace. Storing thermal energy is a key way to shift usage to off-peak electricity. These systems are normally considered complicated and time-consuming by HVAC designers, but Trane simplifies the system design and implementation.



*ICE System Completion module for a CGAM090 with (4) Calmac Ice Storage Tanks, dual pumps, air separator, expansion tank, glycol makeup unit, valves, and UC600 controls for variable primary operation.*



*Integral pumping package with: louvered enclosure, lockable door, floor drain, marine light, non-fused disconnect.*



*Integral pump package with: 2" insulated enclosure, lockable door, floor drain, exhaust fan, space heater, marine light, non-fused disconnect.*

### Benefits of Pre-Engineered Packaged Hydronic Systems

#### Plan - Design - Bid

- Saves engineering time
- Improves system reliability
- Reduces potential design risks
- Cuts down commissioning costs
- Uses less space through pre-engineered designs
- Provides detailed information prior to bidding: scope, component selections, performance

#### Installation

- Decreases time for jobsite installation
- Pares down subcontractor needs to one or two
- Reduces risk for onsite vandalism and theft
- Reduces construction site condition variables such as weather, dirt/dust, insects, material degradation

### Optional Custom Enclosures

Any packaged system customized for your needs can be further enhanced by custom enclosures. These enclosures are architecturally pleasing versus exposed pumps and accessories.

- Choose solid or louvered panels
- Can be stand alone or integral to air cooled chiller
- For louvered panels, they will match the louvered chiller design

Learn more at [trane.com](https://trane.com)



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HYD-SLB001-EN  
07/30/2020