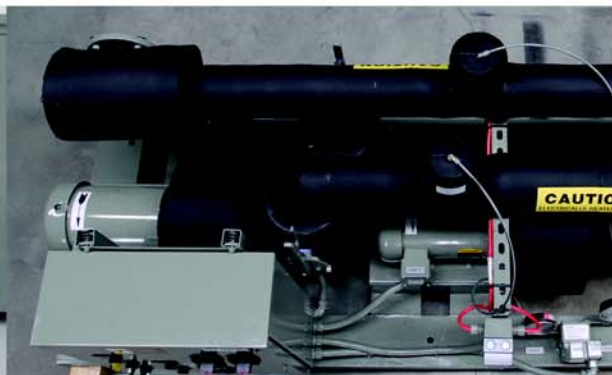




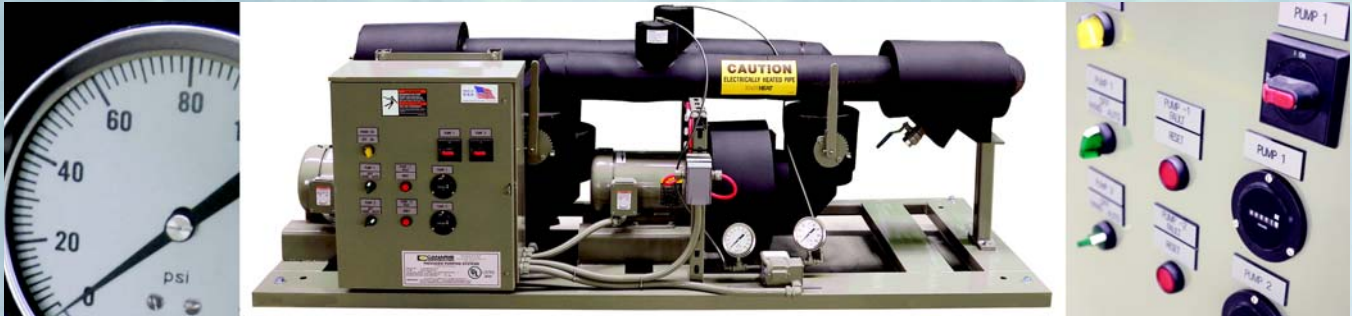
Integrated Pump Package

*Fully integrated for
RTAA 70–125 ton Chillers*





RTAA Integrated Pump Package



How we deliver the the right solution:

- Easy to select and specify
- One package for quick installation
- Integrated power and control wiring
- Saves job-site space
- Wide operating range
- Pre-tested at the factory

Trane has an integrated pump package option available on Air-Cooled Series R™ 70–125 ton chillers. The integrated pump package option on RTAA chillers is the result of thoughtful design and a close working relationship with our supplier.

Series R chillers continue to excel with advanced compressor and control designs. The Trane air-cooled Series R chillers in particular have achieved a reputation for rugged reliability, efficiency, and ease of installation. Air-cooled helical-rotary chillers are increasingly being chosen for a wide range of applications, including education and healthcare facilities.





The integrated pump package option provides a cost-effective solution to customers wanting ancillary equipment selected, installed, and pre-tested by the factory while saving valuable space at the job site.

The UL-listed pump assembly includes:

- Two pumps for redundancy
- Pump controls integrated with the chiller controls
- Valves, fittings, and intermediate piping

One hundred percent of our pump packages are tested at our supplier at 100%, 75%, 50%, and 25% points to match along the pump curve, as well as electrically tested after they are assembled into the unit.

Standard factory electrical tests also reduce commissioning errors by discovering and fixing problems before the unit is shipped to the job site.

Easy to Specify

Trane saves a consulting engineer time by creating a factory-designed and -specified pump package.

The pre-engineered pump packages were designed for a wide range of operation conditions. Allowing the Trane selection program to choose the correct pumping package, based on the total system dynamic pressure and the specific flow rate for the application, saves time at the beginning of a project. Additional time is saved by sourcing the ancillary equipment and the chiller from the same company.

The Trane integrated pump package option reduces the consulting engineer's time managing and selecting pumps for the chilled-water loop and the contractor's time and labor installing the system. The pump systems are designed and built specifically for the application conditions.

To save time during the commissioning process, a factory performance test can be ordered to confirm that the actual chiller performance matches the predicted performance of the selection program. The results serve as benchmark documentation during the commissioning process. For further assurance, customers can witness their unit and pumping package being tested at their specified conditions in the Trane air-cooled run-test facility in Pueblo, Colorado.

Easy to Install

Trane maximizes valuable job site space by incorporating the entire pumping system into the existing chiller base frame. This results in no additional space being needed outside of the chiller's operating footprint.

Trane reduces the contractor's job site time by installing ancillary pumping equipment in the factory. Trane increases the efficiency of installing RTAA chillers by eliminating power and control wire to the pumps. These pre-engineered pumping packages run using the chiller's incoming power supply and incorporate seamlessly. A single power supply to the chiller control panel powers the pump package and heat trace into the unit control schemes.

This option has been built to operate over a wide range of conditions and

has been tested to ensure automatic control capabilities such as lead/lag, failure/recovery, and proof of flow with an incorporated differential pressure switch. Water pressure gauges are also provided for easier flow rate determination.

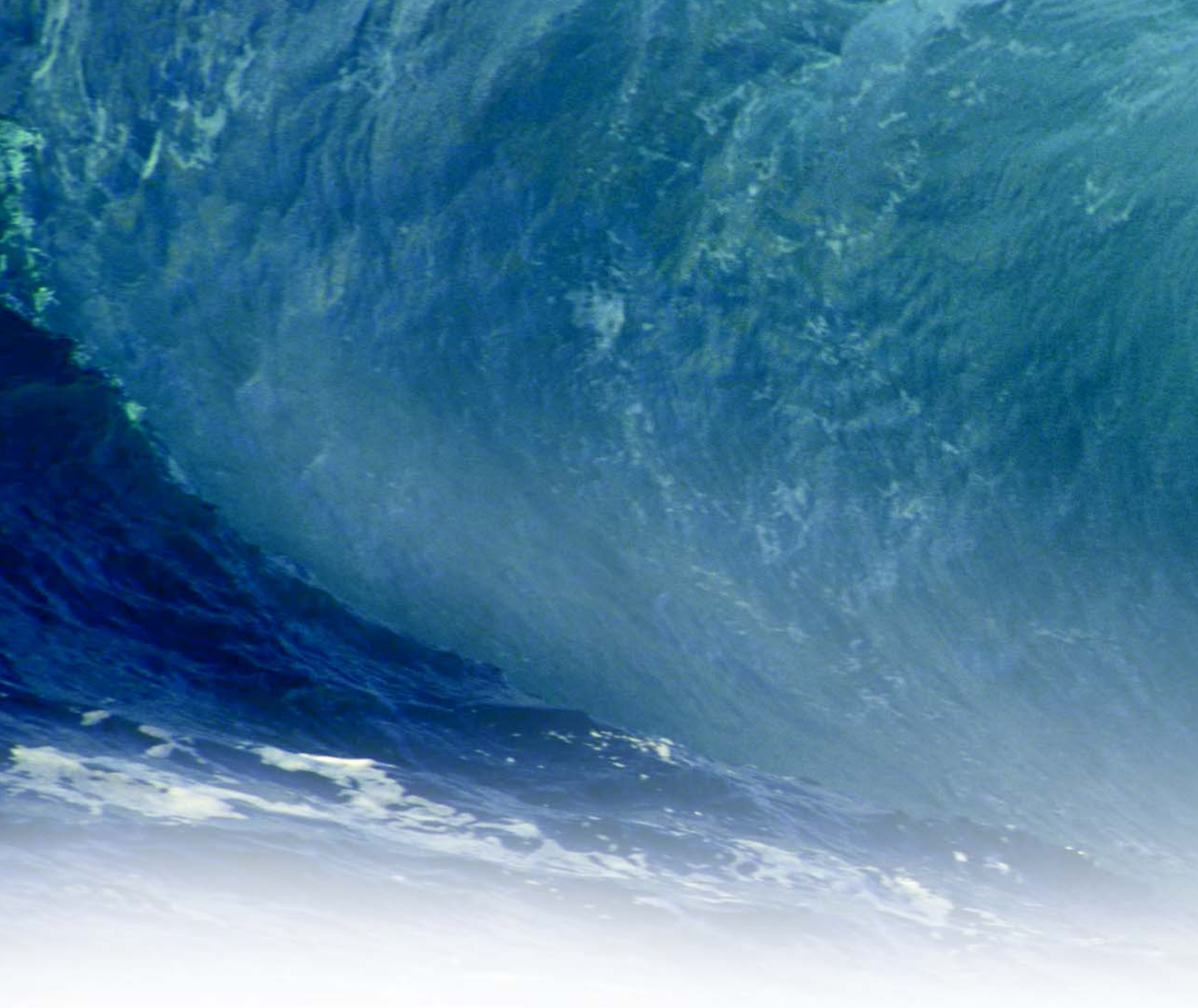
The pump systems are designed and built specifically for the job site conditions. What this means is that we trim the impeller for a specific flow rate and total dynamic head. We help customers meet the ASHRAE 90.1 intention that impeller blades should be trimmed for job-site conditions in a constant-flow, chilled-water system. By providing the correct impeller size during pump construction, time is saved at the job site. If the impeller blades are not trimmed, excessive use of a throttling valve and inefficient operation on the pump curve may result.

Easy to Maintain

System components were designed and built for easy maintenance. Trane reduces downtime by standardizing on dual pumps with automatic lead/lag and failure/recovery capabilities. Each pump package is built with pressure gauges, butterfly isolation valves, and easy access system connections.

Each individual pump has a fused disconnect with lock-out capability for safe servicing.

A Trane Series R RTAA chiller with integrated pumps is the right solution to save you valuable time and space. Trane helps you specify, install, and test your complete packaged chiller. Ask your Trane sales engineer for additional information on the integrated pump package.



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www.trane.com

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Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.