



Industrial Cooling Systems



**cool  
engineering**

THROUGH RESEARCH AND TECHNOLOGY



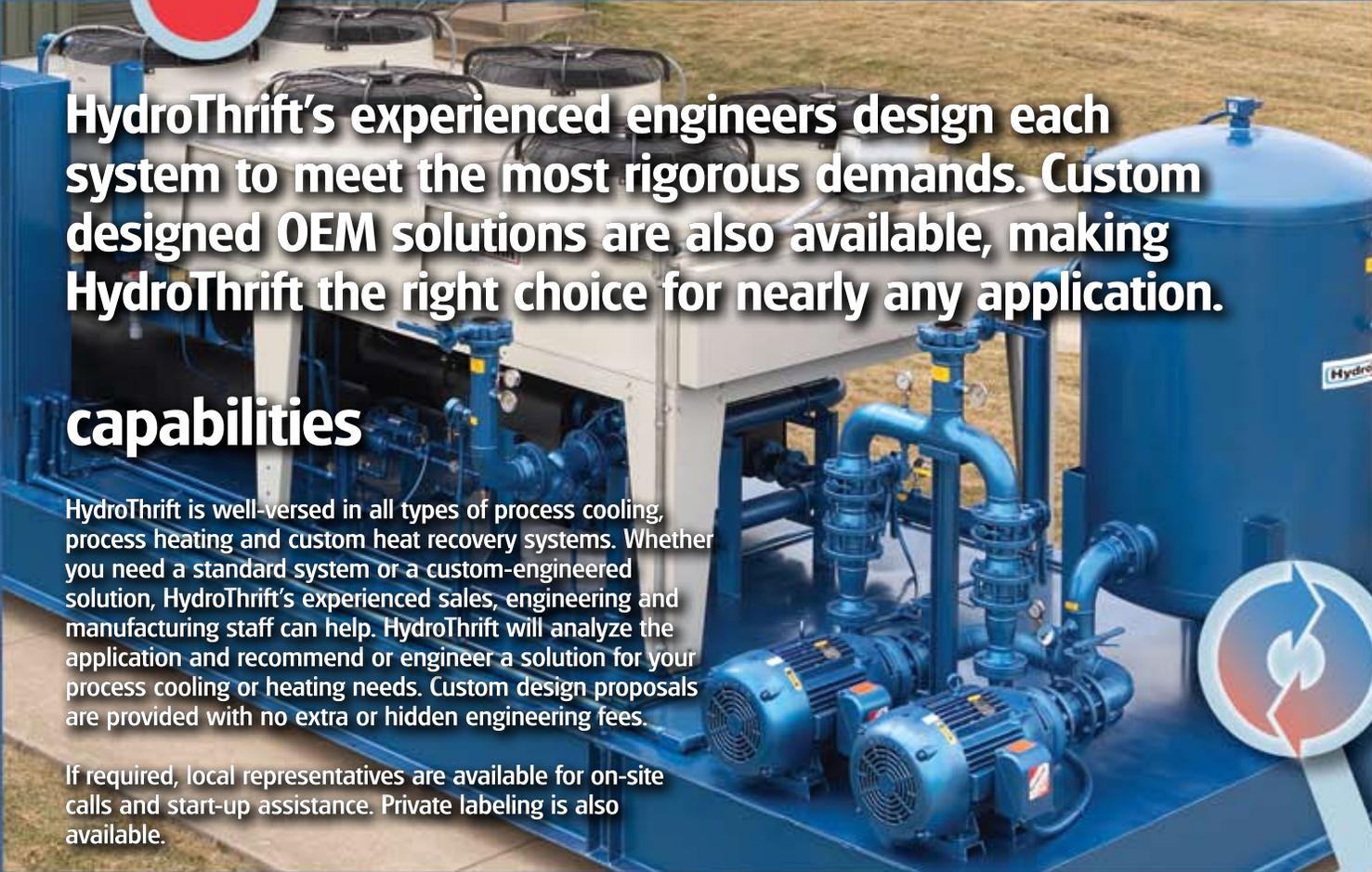


DESIGNERS AND  
MANUFACTURERS  
OF ENGINEERED  
EQUIPMENT THAT  
**WITHSTANDS THE**  
MOST DEMANDING  
**ENVIRONMENTS.**

## about Hydrothrift



For more than 30 years, HydroThrift has been building industry-leading cooling systems, designed and manufactured with careful attention to quality. With more than 15,000 thermal transfer systems installed around the globe, HydroThrift has built a reputation for quality and integrity that is second to none. Every HydroThrift system is guaranteed to work as quoted, providing customers with peace of mind.



**HydroThrift's experienced engineers design each system to meet the most rigorous demands. Custom designed OEM solutions are also available, making HydroThrift the right choice for nearly any application.**

## capabilities

HydroThrift is well-versed in all types of process cooling, process heating and custom heat recovery systems. Whether you need a standard system or a custom-engineered solution, HydroThrift's experienced sales, engineering and manufacturing staff can help. HydroThrift will analyze the application and recommend or engineer a solution for your process cooling or heating needs. Custom design proposals are provided with no extra or hidden engineering fees.

If required, local representatives are available for on-site calls and start-up assistance. Private labeling is also available.



# selecting the right cooling system for your application.



## the problem

Selecting the proper cooling system can be a daunting task, even for the most proficient maintenance or operations personnel. The wrong system can create all sorts of problems, from increased downtime, to increased maintenance and utility costs and even significant safety issues. Add on to that the fact that cooling systems represent a substantial investment and that they need to last for many years. Selecting the wrong system is a risk you don't want to take.

## the solution

At HydroThrift, we're well aware that most of our customers aren't experts in specifying cooling systems. That's why our sales and engineering staff are uniquely trained to help determine which system and options would best meet your needs. These individuals are creative in providing cost-effective and energy-saving solutions that are guaranteed to meet the quoted requirements. In many cases, they combine systems in unique ways to lower utility consumption dramatically.

Each process is individually evaluated and engineered to determine your best cooling solution. If a custom solution is called for, our team will work with everyone involved to provide an engineered solution that meets the specific needs of your application. Site visits are also available to help in the selection and design process.

HydroThrift has a wealth of experience in application engineering, ensuring that we are able to offer solutions that fit your needs, rather than trying to fit our catalog equipment into your application.

For more detailed information, visit us online at [www.hydrothrift.com](http://www.hydrothrift.com). To get started on the selection and proposal process, contact your HydroThrift representative today. Or call us at 330-837-5141.

telephone: 330-837-5141 Fax: 330-837-0558 [www.hydrothrift.com](http://www.hydrothrift.com)



## dry type features/benefits

A **COST-EFFECTIVE**  
SOLUTION USING  
AMBIENT AIR FOR  
INDUSTRIAL COOLING.



HydroThrift's Dry Type cooling systems use ambient air to provide cooling to your process with NO discharge water. These systems are typically less expensive to operate and require little maintenance. Dry Type cooling systems can achieve temperatures about 10° F above dry bulb ambient temperature. Heavy mill gauge galvanized steel construction of the support legs and coil casing ensure structural integrity. Conservatively selected heat transfer components, consisting of copper tubes and aluminum fins provide for long life. HydroThrift's Dry Type systems also feature a super-low-noise swept wing fan design.

Trim coolers with electronic water control valves can be added for applications requiring a lower process fluid temperature, or for dealing with extreme summer temperatures. Multiple and/or redundant fluid cooler and pump systems are available for added flexibility. Optional single or multiple fan controls offer tighter temperature control and lower energy costs. Fan controls are located in the main control panel, not on some remotely located heat exchanger. Additional options include temperature and pressure transmitters for remote monitoring, severe-duty coil construction and variable speed drives.

## heat recovery

Have you given any thought to going "Green" with your waste heat? HydroThrift can help you determine how to save money by recycling your process heat load. Some year round uses could include preheating boiler feed water or other process heating requirements. We can also utilize the rejected process heat load for localized space heating requirements or preheating makeup air during winter. The automatic controls for these applications would be fully automatic and incorporated into our control panel.



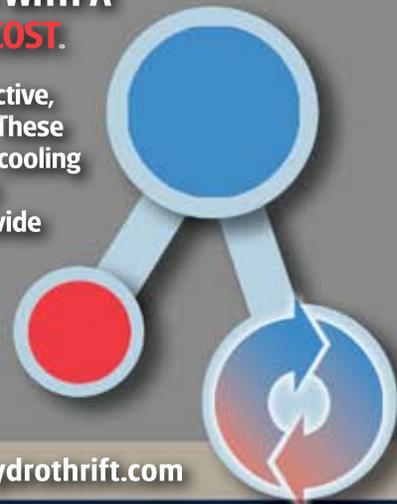
## liquid to liquid features/benefits

THE SYSTEM THAT USES AVAILABLE  
COOLANT SOURCES WITH A  
**LOWER UP-FRONT COST.**

HydroThrift's Liquid To Liquid cooling systems are simple, effective, low cost systems designed to utilize available water sources. These systems are engineered to separate dirty, contaminate-prone cooling fluid from clean process cooling. HydroThrift's Liquid To Liquid systems feature time-tested and proven components that provide accurate temperature and flow control as required by the individual process.

Optional dual heat exchangers and pumps are available to minimize production loss during routine maintenance and cleaning.

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**HYDROTHRIFT COOLING SYSTEMS ARE MANUFACTURED USING ONLY THE HIGHEST QUALITY, GLOBALLY AVAILABLE COMPONENTS AND BACKED BY A PERFORMANCE GUARANTEE.**

## **chillers** features/benefits

**WATER- OR AIR-COOLED CHILLERS THAT **STAND UP** TO CONDITIONS THAT OTHER MANUFACTURERS CAN'T MATCH.**

Each chiller HydroThrift manufactures is designed to meet your specific expectations and needs. HydroThrift Chillers feature robust design that incorporates high-quality components for ease of maintenance and parts availability. HydroThrift offers chiller designs from 1/2 to over 500 tons.

System protectors and safeties that are optional on other manufacturers' equipment are standard on every HydroThrift Chiller. Cooling system designs suitable for hazardous classified areas in refineries and chemical process plants are available.

HydroThrift has the expertise to manufacture chiller systems guaranteed to work in conditions that exceed the capabilities of other manufacturers.



## **closed evaporative** features/benefits

**THE COOLING SYSTEM THAT'S **EASY** ON THE ENVIRONMENT AND OFFERS SIGNIFICANTLY **LOWER OPERATING COSTS.****

Closed evaporative systems are a hybrid of open tower and closed systems, giving customers the best of both worlds. These systems protect process equipment from harmful contaminants normally found in open tower cooling systems. Closed evaporative systems also reduce water treatment consumption, easing the effect on the environment and achieving significant operating cost advantages.

HydroThrift's Closed Evaporative cooling systems can achieve temperatures as low as 7° F above wet bulb. Fluid coolers with hot dipped galvanizing after fabrication can be provided for longer casing life and improved durability. Other options include multiple pump solutions, multicell tower systems, copper or stainless steel coils and individual fan drives for precise temperature control.



**HYDROTHRIFT** HAS SUCCESSFULLY INSTALLED INDUSTRIAL COOLING SYSTEMS IN THOUSANDS OF APPLICATIONS. OUR CUSTOMERS RANGE FROM **SMALL MANUFACTURERS** TO **HOUSEHOLD NAMES**. HUNDREDS OF COMPANIES **TRUST** THE HYDROTHRIFT NAME, AND YOU CAN TOO. VISIT US ONLINE AT [WWW.HYDROTHRIFT.COM](http://WWW.HYDROTHRIFT.COM) OR CALL 330-837-5141 FOR MORE INFORMATION.



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