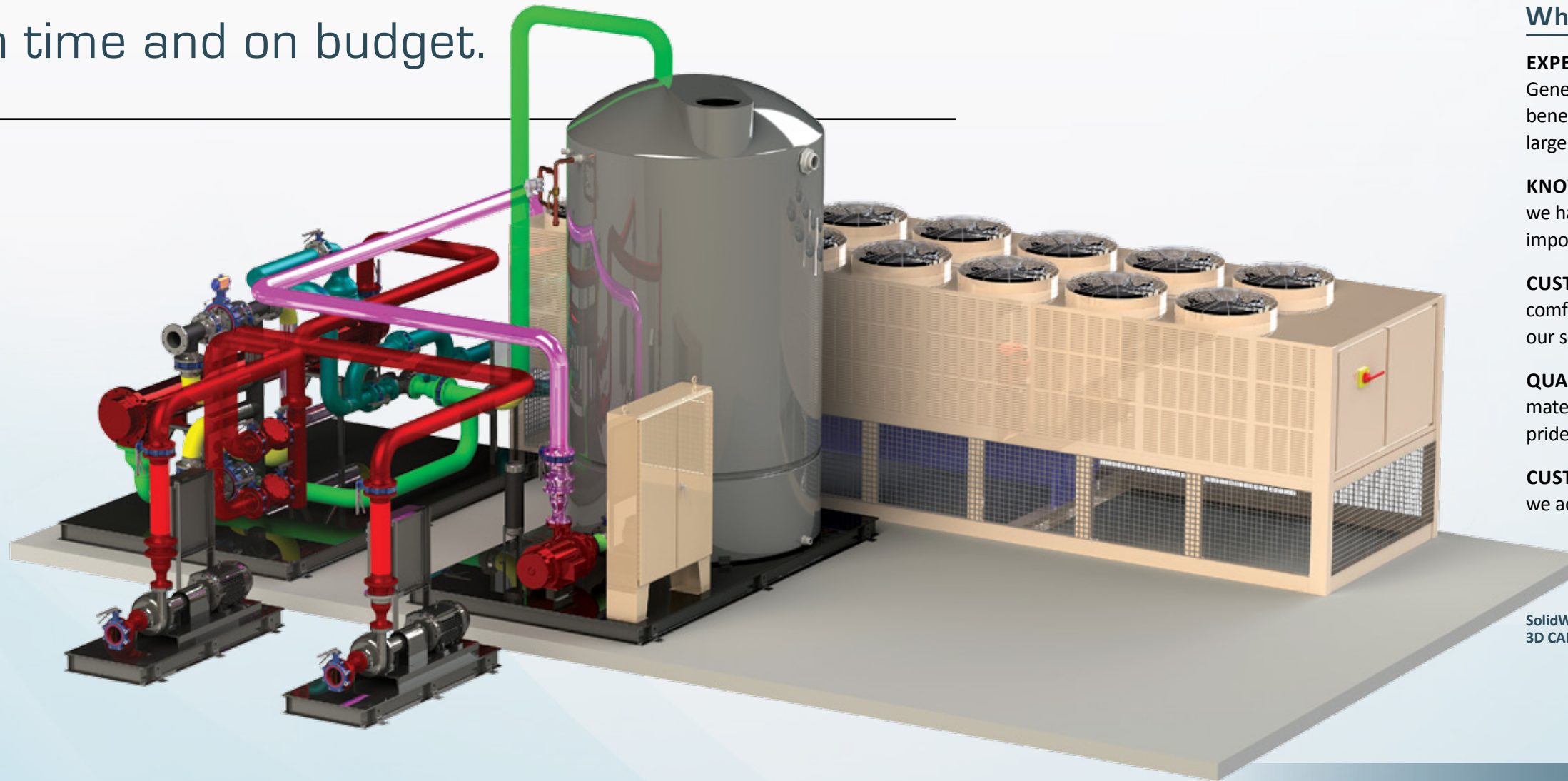




FLUID COOLING SYSTEMS, LLC.

Heat Transfer and Fluid Handling Specialists

Providing sophisticated and efficient solutions—on time and on budget.



Why you should work with us

EXPERIENCE. We have worked with global leaders such as ExxonMobil, General Motors, Ford Motor Company, BP and Johnson Controls. You will benefit from our experience with complex equipment configurations, large and small.

KNOWLEDGE. Because we design and build complete cooling solutions, we have a thorough understanding of each component and its importance to the system as a whole.

CUSTOMER EDUCATION. We educate our customers so they are comfortable with our recommendations and completely understand our selections and built-in benefits.

QUALITY. Our systems are built to last, using the highest quality materials and components, and revolutionary processes. We take pride in not taking shortcuts.

CUSTOMER SERVICE. Everyone promises great customer service, but we actually deliver. This is the driving force behind everything we do.

SolidWorks®
3D CAD Rendering

We are **Fluid Cooling Systems**, design and build experts. We provide industrial process cooling systems to a diverse range of industries in North America and beyond. Our right-sized, efficient solutions will improve your system's performance and continue to provide value years after startup. This means your downtime is reduced or eliminated, allowing for maximum output.



Peace of Mind

Every system goes through a run-off procedure prior to shipping to guarantee a successful start-up in the field. We also offer maintenance and service plans so you can enjoy worry-free operation.

Our products

Chiller Systems

We take a custom approach to each chiller application to ensure we meet the exact requirements, using robust industrial components for durability and longevity. Our systems are sized to handle requirements with a safety factor, but are designed to be as efficient as possible within a given budget.



Standard vs. High Efficiency. Which is best for you?

High efficiency chillers require a larger initial investment, but will typically pay for themselves in the first few years of operation. Because they use newer technology, including Variable Frequency Drives (VFDs) and Magnetic Bearings, they tend to last longer. For those looking to keep initial capital equipment costs down, a standard efficiency model may be the answer. We will work with you to determine the best unit for your specific needs.

Cooling Tower Systems

Cooling towers are a dependable, cost-effective cooling solution. Our fiberglass and stainless steel towers have a 30-year life expectancy and are CTI certified. They feature marine-duty, premium efficiency motors, corrosion-resistant materials and wide access doors. Our custom tower stands provide a stable, secure base and will help you make the most of your available exterior space.

Note: As dust, dirt and other airborne particles are easily introduced into open loop systems through the cooling tower, filtration and chemical treatment should never be overlooked. Our engineers will design a custom solution for your application.



Pump Stations

We engineer a large variety of pump stations to meet your needs, using several different materials of construction and options to accommodate every specification. Whether you require an open loop or closed loop system, pumping water, glycol or other fluid, we can provide the optimal solution. Our PLC/HMI controls allow for flexibility in design and maintenance in the field. We can add VFDs to maintain pressure, eliminate water hammer and increase pump life. VFDs reduce energy and maintenance costs as well.

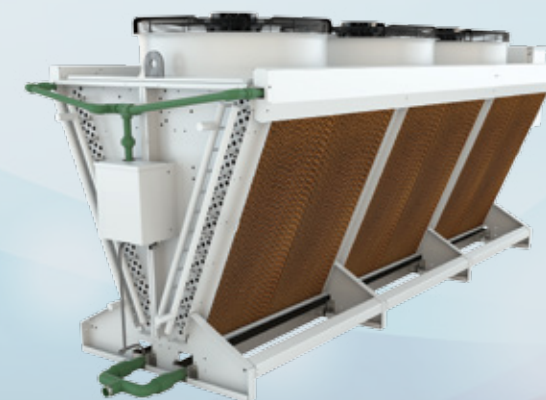


Air Cooled Heat Exchangers

These are an efficient and effective method of fluid cooling, using ambient air temperature. The fans can be induced draft or forced draft, and coils can be made using copper, stainless steel, aluminum, or carbon steel—depending on the application.

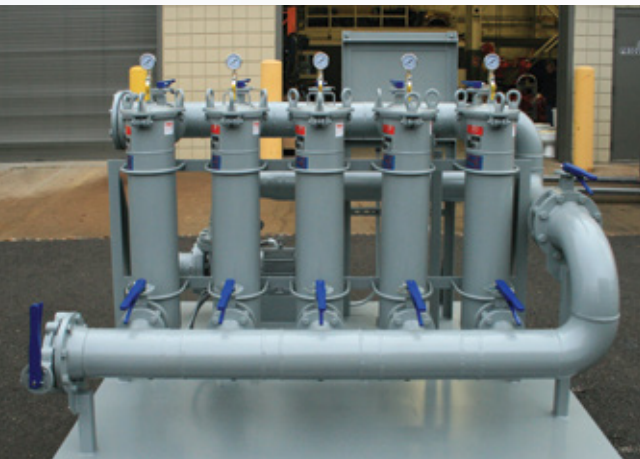
Closed Circuit Evaporative Coolers

When you require a closed loop system without the plate and frame heat exchanger and added pump station, the closed circuit evaporative cooler is a wise choice. These coolers have low operational and maintenance costs, and their stainless steel construction is durable for harsh environments. With factory pre-wiring, plug and play controls and a modular design, installation is quick and easy too.



Adiabatic Coolers

These coolers will allow you to achieve temperatures equal to a cooling tower but without the maintenance needs of an open loop system. There is no chemical treatment, filtration, water recirculation, stagnant water or aerosols. A key feature of the adiabatic cooler is that it uses a small amount of fresh water to cool the ambient air before it reaches the cooling coil. This increases the cooling capacity which either provides more cooling, or the same but in a smaller footprint. Because of its built-in efficiencies, the adiabatic designed system can save up to 80% in water consumption when compared to a cooling tower system.



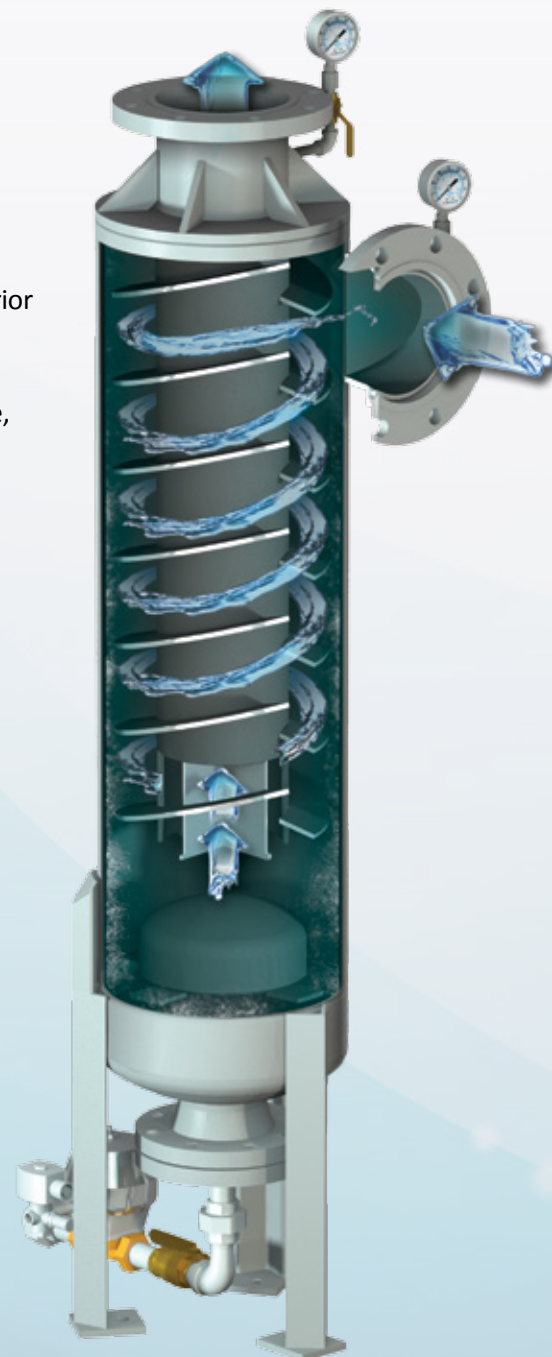
Filtration

Dirty water can foul heat transfer surfaces, making them less efficient. Even worse, it can cause significant damage to your system. A filtration system is a critical component to protect, and even extend, the life of your system and vital infrastructure. We offer several different options and configurations, from bag filters to sand filters, with particulate removal from 800 to 0.45 microns.

Spirex™ Centrifugal Separator

Centrifugal separators are the perfect means of filtering out particulate prior to the supply of water in an industrial application. The Spirex Centrifugal Separator is a patent-pending device intelligently designed for maximum effectiveness, and will last the life of your system. Unique features include, inlet guides, centrifugal blades and flow straighteners. These features promote increased separation and system efficiency.

The Spirex Centrifugal Separator is maintenance free when you select the timed purge valve, which purges particulates over a chosen time frame. We can also add a bag filter instead of the purge valve which filters the purge and reclaims the cleaned water back to the system for a zero water loss solution.



Sump, Sewage, and Dewatering Systems

We offer a compliment of submersible and self-priming pumps for handling a range of water and sewage applications. Ours are constructed for tough duty in the most demanding environments.



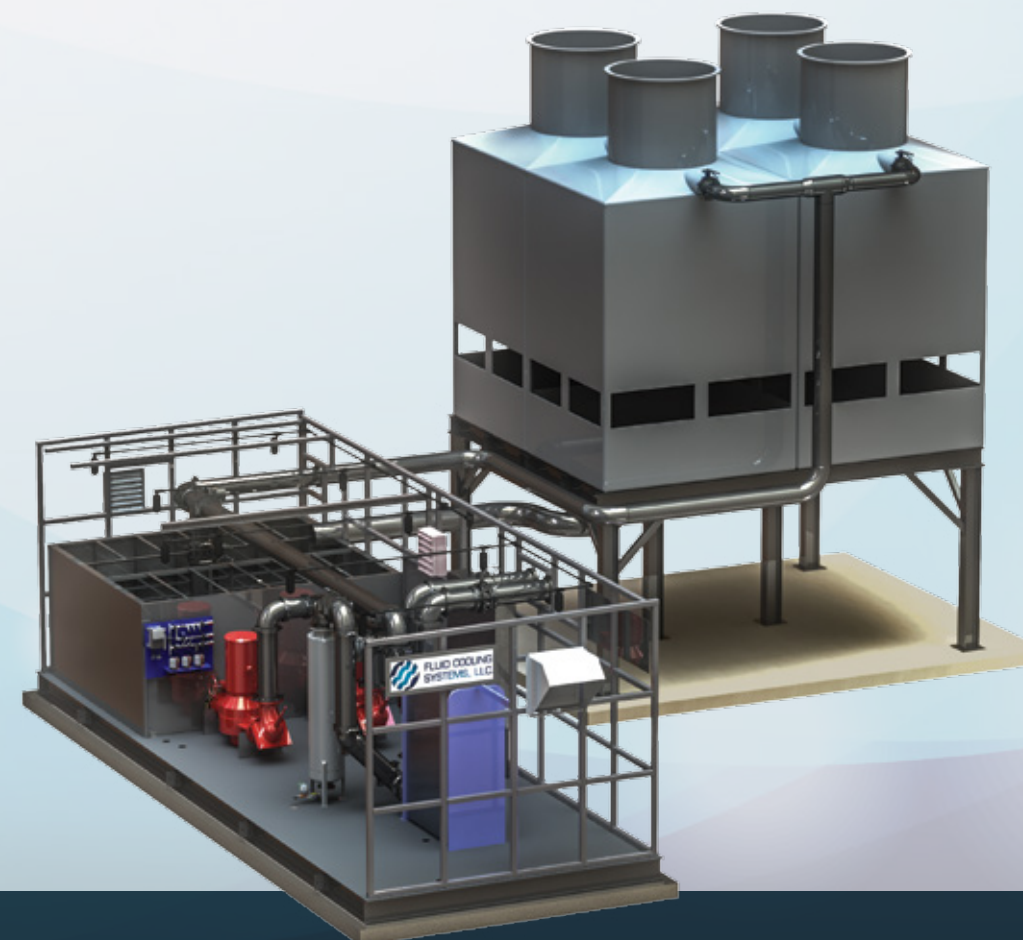
Controls

Our standard controls package uses a dedicated HMI/PLC for process control, which provides flexibility in design and allows modification in the field. Sizes range from a wall-mounted 24" x 24" single-door panel, to free-standing, multi-door enclosures. They are integrated into our process skids pre-wired, mounted and tested. We work with all manufacturers, so our systems can be built with your preferred controls components. As a back-up feature, all of our units have a manual operation mode so the system will continue to operate if the PLC/HMI were to malfunction or stop working.

Modular Mechanical Rooms (MMRs)

Our signature offering is the Modular Mechanical Room—a complete industrial heating or cooling solution that is fully enclosed and can be configured to suit your most complex needs.

Whether it's a modular chiller plant, cooling tower system, boiler room or other custom HVAC system, our engineers will work with you to provide an industrial solution that's smart, efficient, robust and engineered to last while saving operating and maintenance costs. Our MMRs are built in a controlled environment, which allows us to maintain schedule and budget integrity. They are designed to make the installation and start-up process as easy as possible. Simply run power to our control panel and connect your inlet and outlet pipes and you're ready to go.



SolidWorks®

Our team utilizes SolidWorks 3D CAD software to produce state-of-the-industry system and component renderings. It's as realistic as possible without ever cutting steel.

Contact your Fluid Cooling System's
representative today:



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SYSTEMS, LLC.

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