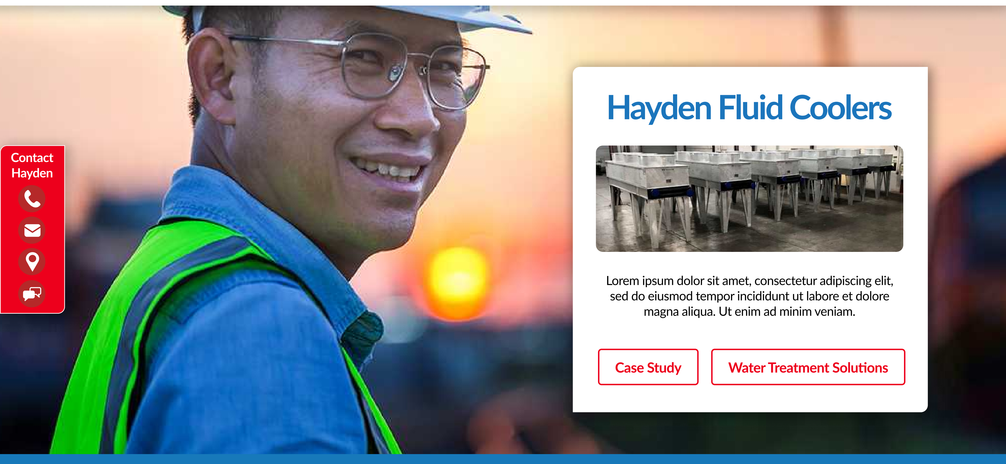

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Key Features

- Coolers can be manufactured with pipe headers with a pressure rating up to 5150psig.
- Slab headers configurations are certified to 6500PSIG design pressure without welding.
- Available in multiple configurations.
- High alloy steels available when specified.

Key Options

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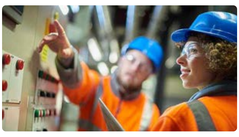

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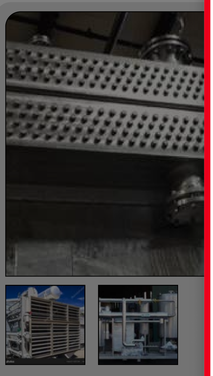

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Features

Better Conditions for Staff

Facilities can be temperature-controlled when running immersion systems. Immersion tanks are virtually silent.

Longer Miner Life

Running on air takes its toll on miner hardware, with an expected 1.5-2 year life. Miners running in fluid can last indefinitely.

Higher ROI or Lower CAPEX

Increase hashrate on miners up to 50% or reduce CAPEX to achieve a desired hashrate.

High Performance Turbulator

Backed up by extensive field and laboratory performance test data, our aluminum SwirlFlow Turbulator was developed by our engineering team and can reduce the size of the cooler by up to 50% while providing more effective heat transfer.

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Trans-T Turbulator

This square, rippled copper turbulator is used in our tubing where fluid compatibility or minimized pressure drops are required. As with our SwirlFlow Turbulator, the Trans-T breaks up laminar flow, forcing a better mix of fluid closer to the outer tube. The resulting fluid distribution profile promotes improved heat transfer and greater efficiency.

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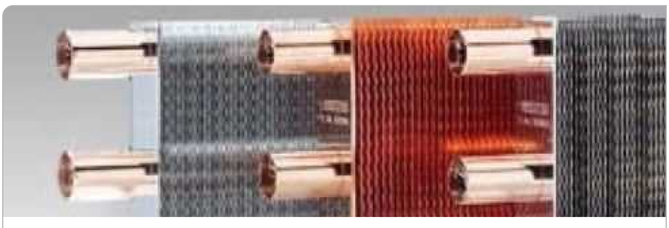

Continuous Rippled & Full-Collard Fins

Hayden's standard design of copper tubing with aluminum fins optimizes effectiveness based on BTUs per dollar. Continuous rippled, full-collared 1½" wide fins offer key advantages over traditional straight finned models.

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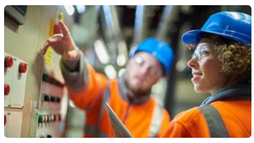

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What We Do

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Hayden Fluid Coolers

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Case Study

Water Treatment Solutions

Looking for High Performance Air Cooled Heat Exchangers?

We can find a solutions for you.

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The Hayden Difference

Innovation

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Engineering

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Design

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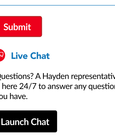
Find Your Heating Solution



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Live Chat

Questions? A Hayden representative is here 24/7 to answer any questions you have.

Launch Chat

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Oil Coolers

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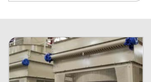

Lube Oil Coolers

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Fluid Coolers

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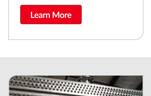

Compressed Gas Coolers

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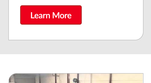

Refrigerant Condensers

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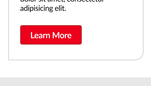

Steam Condensers

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Hydrocarbon Condensers

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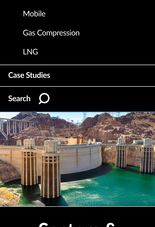

Sectors & Applications

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Renewable Energy

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Our Technology

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Features

Better Conditions for Staff

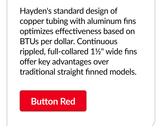
Facilities can be temperature-controlled when running immersion systems. Immersion tanks are virtually silent.

Longer Miner Life

Running on air takes its toll on miner hardware, with an expected 1.5-2 year life. Miners running in fluid can last indefinitely.

Higher ROI or Lower CAPEX

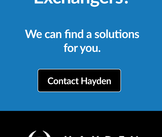
Increase hashrate on miners up to 50% or reduce CAPEX to achieve a desired hashrate.



High Performance Turbulator

Backed up by extensive field and laboratory performance test data, our aluminum SwirlFlow Turbulator was developed by our engineering team and can reduce the size of the cooler by up to 50% while providing more effective heat transfer.

Button Red



Trans-T Turbulator

This square, rippled copper turbulator is used in our tubing where fluid compatibility or minimized pressure drops are required. As with our SwirlFlow Turbulator, the Trans-T breaks up laminar flow, forcing a better mix of fluid closer to the outer tube. The resulting fluid distribution profile promotes improved heat transfer and greater efficiency.

Button Red

Continuous Rippled & Full-Collard Fins

Hayden's standard design of copper tubing with aluminum fins optimizes effectiveness based on BTUs per dollar. Continuous rippled, full-collared 1½" wide fins offer key advantages over traditional straight finned models.

Button Red

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Gas Compression & Biogas Coolers

This square, rippled copper turbulator is used in our tubing where fluid compatibility or minimized pressure drops are required. As with our SwirlFlow Turbulator, the Trans-T breaks up laminar flow, forcing a better mix of fluid closer to the outer tube. The resulting fluid distribution profile promotes improved heat transfer and greater efficiency.

Key Features

- Coolers can be manufactured with pipe headers with a pressure rating up to 5150psig.
- Slab headers configurations are certified to 650PSIG design pressure without welding.
- Available in multiple configurations.
- High alloy steels available when specified.

Find A Distributor Near You

Case Study

Hayden Industrial manufacturers air cooled heat exchangers that cool glycol and water process loops by utilizing ambient air as the cooling medium. Typical applications are:

- Engine Cooling for compressions and power generation
- Secondary process loops seen on compressions skids and bio gas installations
- Heat dumps for removing heat from a process like an autoclave or cogeneration facility
- Battery storage
- Inter and after coolers on reciprocating engines
- Large variable frequency drive cooling
- Data Centers

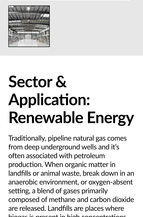
Key Features

- Compact finned coolers available in a wide range of fin and tube materials.
- Products can be designed to meet API-661 requirements.
- Specialty coatings available for corrosion protection in harsh environments.
- Internal water flushing available when specified.

Key Options

We have various stock options for our glycol coolers and a full line of customizable products. Our sizes typically range from 18" x 18" up to multiple bays that are 15' wide by 16' long.

Your specific application will dictate what style product we custom manufacturer for your project.



Sector & Application: Renewable Energy

Traditionally, pipeline natural gas comes from deep underground wells and it's often associated with petroleum production. When organic matter in landfills or animal waste, break down in an anaerobic environment, or oxygen-absent setting, a blend of gases primarily composed of methane and carbon dioxide are released. Landfills are places where biogas is present in high concentrations, which is why it's often called landfill gas.

Biogas is burned as a fuel or treated to remove the CO2 and other gases for use just like natural gas. Treated biogas is often called renewable natural gas, or RNG, as well as biomethane.

- Engine Cooling for compressions and power generation
- Secondary process loops seen on compressions skids and bio gas installations
- Heat dumps for removing heat from a process like an autoclave or cogeneration facility
- Battery storage
- Inter and after coolers on reciprocating engines
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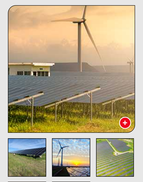

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Large Industrial Forge Plant

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Power Cogeneration

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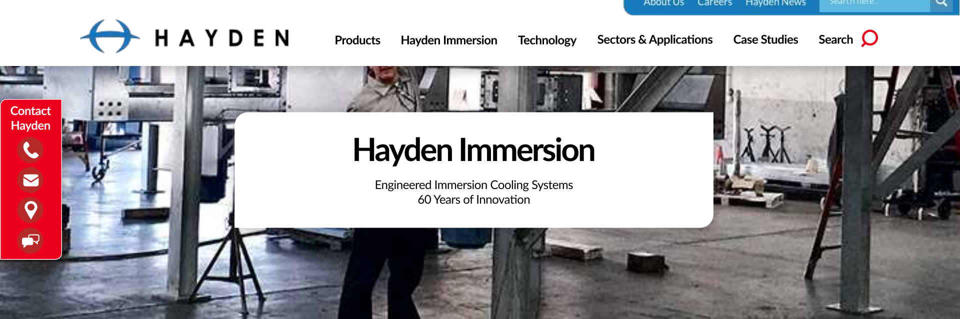

Hayden Immersion

Engineered Immersion Cooling Systems
60 Years of Innovation

Earn and Learn — HAYDEN IMMERSION

Very Low PUE **1.05*** Nearly all power goes to your miners

Request A Quote | Download Brochure | Download Spec Sheets

Two Form Factors

Immersion Skids

375Kw fully turnkey immersion skids.

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Immersion Containers

1.6Mw fully turnkey immersion containers.

Learn More

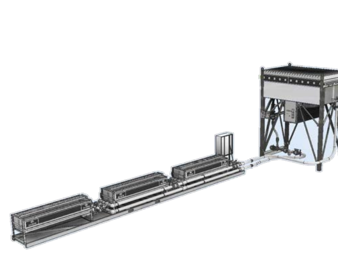
All Immersion Systems Include

Single Source for Everything

Tanks, pumps, process piping, heat exchangers, controllers, software – everything comes from Hayden, so you only have one vendor to deal with

Dry Coolers Designed to Fit

For virtually any ambient temperature, from a company with 60 years experience designing and building heat exchangers

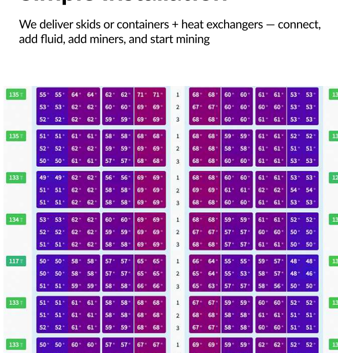


Simple Installation

We deliver skids or containers + heat exchangers – connect, add fluid, add miners, and start mining

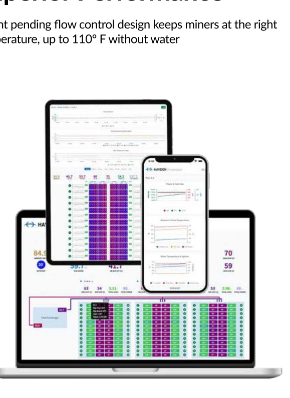
Superior Performance

Patent pending flow control design keeps miners at the right temperature, up to 110° F without water



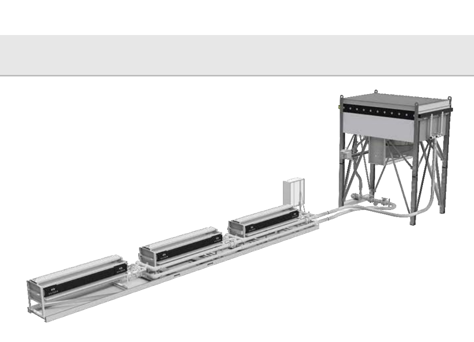
Balanced Tank

Very little variation of chip temperatures across every miner in every tank



Turnkey Software

We include a complete O&M software solution for monitoring and managing sites, systems, tanks, and miners



Immersion Skids

Hayden's immersion skids make it simple to get facilities based mining operations up and running a quickly as possible. Simply fork the tank skids and heat exchangers into place, connect them with flexible hoses, and hook up power and network.

Our 375kW skid comes with everything you need to mine except the miners. Our immersion software can easily scale to run 2 or 200 skids.

- Room for 78 S19 series miners

Technical Specifications

With 78 S19 series miners

- 5128W max per miner
- Rated 100F max ambient with 40% overclock,47°C tank inlet fluid, 75°C max chip temps

Order now for delivery in 8 weeks

Each Skid Includes

- 3x 26 S19 series miner tanks
- 3x smart PDUs
- 1x heat exchangers each with 6 2.5HP fans with integral speed controls
- 7.5 HP pump with VFD control
- Flexible interconnecting hoses to heat exchanger
- Control panel for pumps, fans, and sensor control
- Hayden's proprietary full-featured immersion management software

Immersion Containers

Ready to drop in place and only requiring hook up to power and network, and minor assembly, Haydens immersion containers are as close to plug and mine as it gets.

Our immersion container takes 4 of our incredibly effective tank skids and combines them in a 45' container along with everything else you might need for maximum power savings and run 1.6MW of immersion mining.

- Room for 312 S19 series miners

Technical Specifications

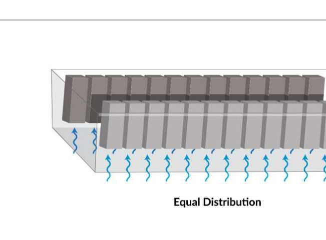
With 312 S19 series miners

- 5128W max per miner
- Rated 100F max ambient with 40% overclock, 47°C tank inlet fluid, 75°C max chip temps

Order now for Q3 2023 delivery

Each Container Includes

- 4x Hayden 375 KW rated tank skids
- 12x smart PDUs
- 2x five ton HVAC units
- 4x heat exchangers each with 6 2.5HP fans with integral speed control
- 4x 7.5 HP pumps with VFD control
- 2x access doors
- 4x 800 Amp Panel Board
- Flexible interconnecting hoses to heat exchangers
- Interior lighting
- Make-up air / ventilation system
- Control panel for pumps, fans, HVAC, ventilation, and sensor control.
- Hayden's proprietary full-featured immersion management software



Superior Tank Design

Integrated PDU's: With PDU's integrated on each side of our tanks, customers have the shortest and simplest cable runs

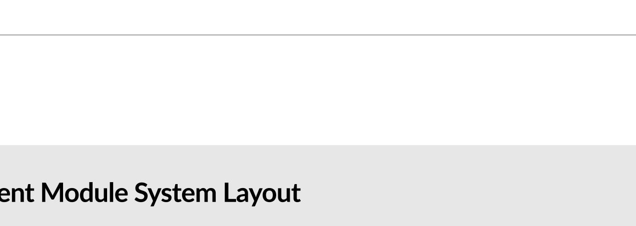
(1) **Accessible Design:** With two aisles for miners and an overflow in the center, every miner is easy to get at for maintenance

(2) **Integrated PDU's:** With PDU's integrated on each side of our tanks, customers have the shortest and simplest cable runs

(3) **Convenient Drain Tray:** Sliding from side-to-side, our drainage tray makes it easy to drain one miner, or half the miners in the tank at a time

(4) **All the Extras:** Adjustable feet for leveling, grounding lugs, ethernet cable tray, switch mount, spill tray option...

You name it, we've thought of everything!



Superior Fluid Management

Equal Distribution
Our engineered fluid distribution system ensures that each miner gets an equal amount of flow, making our tanks incredibly balanced

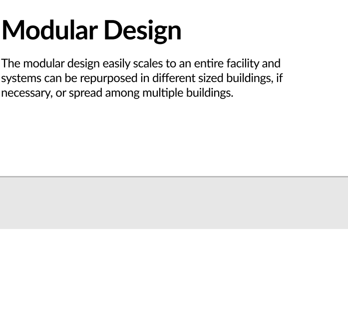
Miner Flow Control
We go further to direct much of the fluid to where the heat is – the ASIC chips – so flow isn't wasted on areas that don't need it

Advanced R&D Process
We've tested over 150 variations in tank design to come up with a system that functions at peak performance

Efficient Module System Layout

Yin-Yang Systems Layout

Hayden's yin-yang systems layout provides a high-density installation and an efficient use of space, while still allowing access to every side of every tank. Identical modular systems make for more cost-effective inventorying and procurement of replacement parts like pumps, seals, and fan motors.



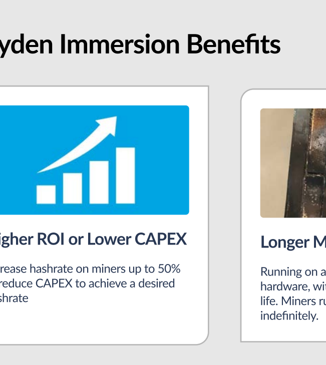
Modular Design

The modular design easily scales to an entire facility and systems can be repurposed in different sized buildings, if necessary, or spread among multiple buildings.

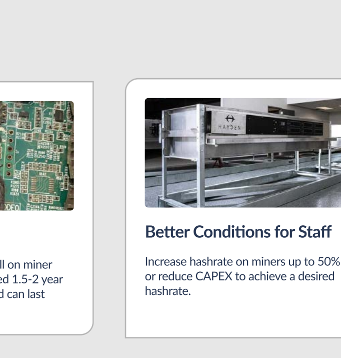
Superior Software

Site View

System View

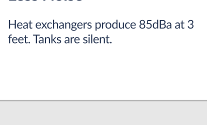


Tank View



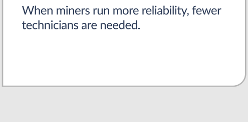
Miner View

Hayden Immersion Benefits



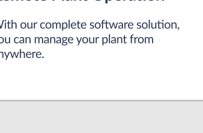
Higher ROI or Lower CAPEX

Increase hashrate on miners up to 50% or reduce CAPEX to achieve a desired hashrate



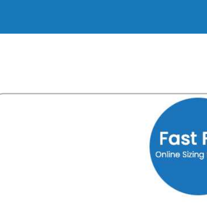
Longer Miner Life

Running on air takes its toll on miner hardware, with an expected 1.5-2 year life. Miners running in fluid can last indefinitely.



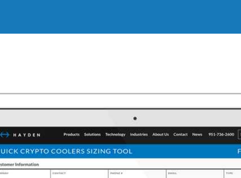
Better Conditions for Staff

Increase hashrate on miners up to 50% or reduce CAPEX to achieve a desired hashrate.



Less Noise

Heat exchangers produce 85dBa at 3 feet. Tanks are silent.



Lower Operating Cost

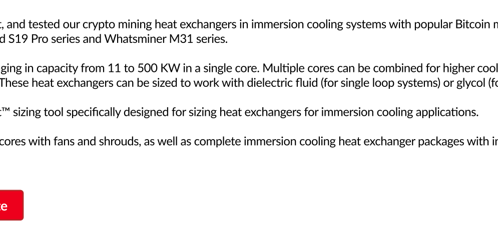
When miners run more reliability, fewer technicians are needed.

Remote Plant Operation

With our complete software solution, you can manage your plant from anywhere.

Immersion Literature

Download Brochure | Download Spec Sheets



Immersion Mining Heat Exchangers

Hayden offers a line of aluminum braze air to oil (or water/glycol) heat exchangers designed and sized specifically for immersion crypto mining applications. In the mining community, air to liquid heat exchangers such as these are often referred to as dry coolers.

While lots of companies fabricate immersion cooling tanks for ASIC and other miners, very few have the capability for properly sizing the heat exchanger such that it will work at the exact environmental conditions any location can experience. Many solutions end up over, or more commonly, under sized.

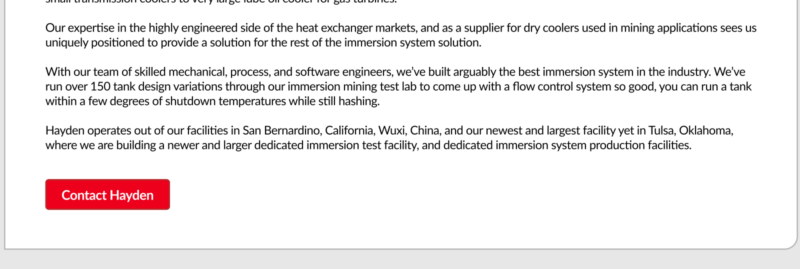
We've designed, built, and tested our crypto mining heat exchangers in immersion cooling systems with popular Bitcoin miners such as the Antminer S17 Pro and S19 Pro series and Whatsminer M31 series.

We offer 11 sizes ranging in capacity from 11 to 500 KW in a single core. Multiple cores can be combined for higher cooling capacities up to multiple megawatts. These heat exchangers can be sized to work with dielectric fluid (for single loop systems) or glycol (for dual loop systems).

Hayden has a Fast Fit™ sizing tool specifically designed for sizing heat exchangers for immersion cooling applications.

We offer bare cores, cores with fans and shrouds, as well as complete immersion cooling heat exchanger packages with included pumps and controls.

Request A Quote



Hayden Industrial

Hayden has been designing and building heat exchangers for over 60 years. We specialize in highly engineered solutions that meet specific customer needs, and provide solutions for just about any ambient temperature, from the Arctic to the Sahara Desert, in sizes ranging from small transmission coolers to very large lube oil cooler for gas turbines.

Our expertise in the highly engineered side of the heat exchanger markets, and as a supplier for dry coolers used in mining applications sees us uniquely positioned to provide a solution for the rest of the immersion system solution.

With our team of skilled mechanical, process, and software engineers, we've built arguably the best immersion system in the industry. We've run over 150 tank design variations through our immersion mining test lab to come up with a flow control system so good, you can run a tank within a few degrees of shutdown temperatures while still hashing.

Hayden operates out of our facilities in San Bernardino, California, Wuxi, China, and our newest and largest facility yet in Tulsa, Oklahoma, where we are building a newer and larger dedicated immersion test facility, and dedicated immersion system production facilities.

Contact Hayden

Looking for High Performance Air Cooled Heat Exchangers?

We can find a solution for you.

Contact Hayden

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