



FLUID COOLING
SYSTEMS

WE DELIVER SOLUTIONS™

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Bob Antaya

President

Bob Antaya, founder of Fluid Cooling Systems, is a seasoned sales engineer with over 20 years of industry experience. He has a proven track record in engineering and manufacturing process cooling and heating systems, serving clients like Johnson Controls, Ford Motor Company, and ExxonMobil. Known for his strong work ethic and dedication, Bob excels in providing tailored solutions and guiding clients to make informed decisions. His commitment to integrity and continuous learning sets him apart as a leader in the field.



Fluid Cooling Systems

Is a leading provider of engineered solutions in heating and cooling systems. With decades of experience, we deliver tailored solutions for a variety of industries, ensuring efficiency, reliability, and innovation.

Our Vision

Founded on quality, innovation, and customer-focused principles, Fluid Cooling Systems is a trusted partner for industrial heating and cooling. We aim to lead the industry by delivering integrated, sustainable, and energy-efficient systems. With a dedicated team and advanced manufacturing capabilities. Our solutions meet the highest standards.

Our Mission

To exceed expectations with sustainable systems that drive performance for industries worldwide.

What Sets Us Apart



Strategic Partnerships

We forge collaborative relationships with our clients, delving deep into their operational requirements, process intricacies, and technical specifications. This comprehensive approach ensures tailored solutions that align with our client’s needs and industry demands.



Knowledge Transfer

Our commitment begins well before the purchase order. During the proposal phase, we educate our clients on the intricacies of our engineered solutions, ensuring they are informed from the outset. This proactive approach continues through system delivery, start-up, and owner training, empowering our clients to make knowledgeable decisions and maximize the long-term value of our systems. This dedication to education fosters operational excellence and efficiency.



Uncompromising Quality Assurance

As an ISO 9001:2015 certified organization, we implement quality control measures throughout our design and manufacturing processes. Our ASME-certified welders utilize premium-grade materials and components, guaranteeing the durability and reliability of our systems. This unwavering commitment to quality translates into enhanced system longevity and reduced lifecycle costs for our clients.

FCS Connect By Fluid Cooling Systems

Revolutionizing Cooling Technology

Overview: FCS Connect is a secure cloud-based solution for machine monitoring, remote support, and preventive maintenance, built on the Unicloud platform.

Key Features



Real-Time Data & IoT
Access live data from any device and optimize processes.



Unicloud Platform
No-code dashboard creation, multilingual support, and user role management.



Preventive Maintenance
Proactive monitoring, alerts, and troubleshooting.



Cybersecurity
End-to-end encryption, role-based access, 24/7 monitoring, ISO certified.

Benefits



Cost Savings
Save on travel with remote support and proactive maintenance.



Reduced Downtime
Prevent failures with proactive monitoring and alerts.



Enhanced Visibility
Gain real-time insights across operations.



Improved Security
Protect systems with enterprise-grade security and encryption.

Privacy and Protection

Fluid Cooling Systems prioritizes the privacy and protection of client data with robust security measures and responsible data use.

Our Products

Data Centers Cooling

Crypto Miners Cooling

Cooling Tower Systems

Chilled Water Systems

Hot Water Systems

Steam Systems

Cogeneration Systems

Filtration Systems



Our Products

Open Loop Pump Stations

Closed Loop Pump Stations

Storm Water Pump Stations

Sewage Lift Stations

Lift Stations

Valve Vaults

Booster Pump Stations

Heat Transfer



Our Products

Free Cooling

Heat Recovery



Plant Control Systems

Control Panels

VFDs

FCS Connect



Our Products

Spirex Centrifugal Separators

Bag Filters

Filtration Systems



Modular Mechanical Rooms



Our Market

Municipal Water and Wastewater

- Applications: Drinking, potable, water supply, sewage treatment, stormwater management, and sludge handling.
- Customers: Cities, municipalities, water districts, and utilities.

Industrial Manufacturing

- Applications: process water circulation, cooling systems, chemical transfer, boiler feed, hydraulic cooling, heat treat cooling, quench oil cooling, filtration systems, controls upgrades, comfort cooling and heating, hot stamp cooling, air compressor cooling, and more.
- Customers: Automotive, aerospace, electronics, metalworking, and textiles.

Chemical Processing

- Applications: Handling of corrosive, viscous, or hazardous fluids, Heating or cooling of Batch Processes, Filtration, and Mixing.
- Customers: Chemical manufacturers, specialty chemical producers, and petrochemical plants.

Food and Beverage

- Applications: Sanitary fluid handling, CIP (clean-in-place) systems, and wastewater treatment.
- Customers: Breweries, dairies, food processors, and beverage manufacturers.

Pharmaceutical and Biotech

- Applications: High-purity fluid handling, sterile processing, and cooling of bioreactors.
- Customers: Pharmaceutical manufacturers, biotech companies, and research facilities.

Power Generation

- Applications: Boiler feed, cooling water, condensate extraction, turbine cooling, generator cooling, heat recovery systems and wastewater treatment.
- Customers: Power plants (coal, gas and renewable energy).

HVAC

- Applications: Chilled water systems, cooling towers, and heating systems.
- Customers: Commercial buildings, hospitals, data centers, and universities.

Mining and Aggregate

- Applications: Dewatering and slurry pumping.
- Customers: Mining operations, aggregate producers, and quarry operators.

Our Market

Pulp and Paper

- Applications: Stock preparation, coating, and effluent treatment.
- Customers: Paper mills, packaging plants, and tissue manufacturers.

Agriculture and Irrigation

- Applications: Crop irrigation.
- Customers: Farms, agribusinesses, and irrigation districts.

Marine and Shipbuilding

- Applications: Ballast water, bilge pumping, fire suppression, and winch cooling.
- Customers: Shipyards, maritime operators, and navy contractors.

Environmental and Remediation

- Applications: Groundwater remediation, leachate pumping, and stormwater control.
- Customers: Environmental engineering firms and waste management companies.

Construction

- Applications: Dewatering, concrete pumping, and site drainage.
- Customers: Contractors, construction companies, and civil engineering firms.

Automotive and Aerospace

- Applications: Paint circulation, cooling systems, fluid transfer, and heat treat cooling.
- Customers: OEMs, Tier 1 and Tier 2 suppliers, and maintenance facilities.

Energy (Renewables and Fossil Fuels)

- Applications: Geothermal Energy Recovery and Rejection, biofuel production, and solar thermal systems, Organic Rankine Cycle Heating and Cooling, Steam, Condensing, Fuel Oil Transfer.
- Customers: Renewable energy developers, biofuel producers, and energy utilities.

High-End Lubrication Systems

- Applications: Oil circulation, hydraulic systems, and centralized lubrication.
- Customers: Industrial machinery operators and manufacturers of heavy equipment.

Our Process

From concept to completion, we're with you every step of the way:



► Strategic Consultation

We initiate each project with an in-depth client consultation, analyzing operational requirements, technical specifications, and performance objectives. This collaborative approach ensures a thorough understanding of your unique challenges.

► Custom Engineering Design

Our engineering team develops custom thermal management solutions tailored to your specific requirements. We focus on creating designs that maximize efficiency, reliability, and scalability to meet your current and future needs within your budget. This approach ensures that our solutions are not only high-performing but also cost-effective, delivering the best value for your investment. We focus on delivering exceptional value with competitive pricing, timely delivery, and consistent reliability.

► Precision Fabrication

We manufacture all components in our facilities, adhering to strict industry standards. Our skilled technicians ensure each system is built to exact specifications. In-house fabrication allows us to maintain direct control over quality and timelines.

► Quality Assurance

As an ISO 9001:2015 certified organization, quality control is a cornerstone of our manufacturing process. Each system undergoes a thorough quality check before shipment.

Our certifications include:

- i. ISO 9001:2015 Quality Management System
- ii. ASME Certified Welding

Our ASME-certified welders utilize premium-grade materials and components, guaranteeing the durability and reliability of our systems. This commitment to quality translates into enhanced longevity and reduced lifecycle costs for our clients. These certifications validate our technical expertise and ensure that every solution meets the highest industry standards for performance and reliability.

► Expert Installation

Our licensed field technicians provide on-site assistance during the installation process, ensuring proper implementation of our systems.

► Continuous Performance Optimization

We stand behind every system we deliver. Our team remains readily available to address your questions, provide technical guidance, and ensure your thermal management solution continues to perform at its highest potential.

Our Core Values

Engineering Excellence Through Principled Performance

At Fluid Cooling Systems, our core values define our operations and drive our commitment to industry leadership:

01

Uncompromising Excellence



We pursue the highest standards of engineering and professional performance, consistently delivering solutions that exceed expectations. Our commitment to excellence is not just a goal, it's our fundamental operational standard.

02

Proactive Accountability



We take complete ownership of every project, from the initial concept to the final implementation. Our team approaches each challenge with a comprehensive, solution-oriented mindset, ensuring rigorous follow-through and exceptional results.

03

Collaborative Partnerships



We view our relationships with customers and vendors as strategic collaborations. By fostering transparent, mutually beneficial partnerships, we create integrated solutions that drive collective success.

04

Continuous Innovation



Innovation is central to our approach. We invest in advanced engineering techniques, emerging technologies, and professional development to lead in thermal management solutions and fabrication. Additionally, our UL Panel Shop ensures our control panels meet the highest safety and quality standards.

Cutting-Edge Technology with Novarc Technologies Welding Robot

12x

Productivity Increase:
Up to 12 times faster.

3-5x

Unmatched Productivity:
Increase carbon steel welding
productivity by 3-5 times.

1%

Low Repair Rates:
Less than 1%.

0%

Exceptional Quality:
0% failure rate for X-ray
quality checks.

Client Testimonials

“

I have been working with Bob and his team for over 10 years on projects that range from 100 dollars to over 1,000,000 dollars, always with a successful job and a happy customer in the end. We are always treated like we are their only customer and know we can always rely on fluid cooling systems to get the job done right the first time and on time for the end user. When we encounter a project that requires any type of cooling system or pumps with a full set of prints and specifications or zero information from our customers my first call is always Fluid Cooling Systems.

- Joshua J. Yates - Lee Contracting

“

We have done multiple projects with Fluid Cooling Systems for comfort cooling and process cooling. Their expertise in the design process, as well as skilled engineering and fabrication capabilities, sets them apart. They are also well versed with design changes and startup requirements sometimes needed to bring the correct system online quickly.

- Sales Engineer – Havtech

“

Regardless of project size, the FCS team is very thorough and accommodating. More importantly, their workmanship is always the highest quality.

- Engineer Ceratizit

“

Bob Antaya and the “Fluid Cooling Systems” do an excellent job when it comes to cooling systems in the Thermal Treatment Industry.

- Gord Montgomery, WG Montgomery Ltd





Client Testimonials

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Cooling Systems has become a trusted partner to us. They always come through innovative, industrial solutions that provide excellent value and ROI.

- Engineer Johnson Controls Inc.

“

Bob and the FCS Team are very attentive to pre-project discussions and listen for details that show up on system implementation. The designs, quality of construction, submittals, commissioning, and start-up are always on cue and result in successful projects. In my top 2 manufacturers to work with and I work with many!

- Sales Engineer DPT Mechanical

“

Bob and the team at Fluid Cooling Systems have been a pleasure to collaborate with across the state of Florida. Their responsiveness, flexibility, and quality have made them a reliable solution offering for us. They have innovative solutions for our engineers as well as cost and time-saving options for our contractors and end users.

- Sales Engineer Air Source Corporation

“

Fluid Cooling and DPT have been very knowledgeable, competent, and helpful as we've expanded our cooling tower capacity at our HF facility. Jason is very cordial and always follows up with helpful information regarding our cooling water systems. We feel confident working with Fluid Cooling Systems.

- Operations Director MacLean-Fogg

“

We've worked with Fluid Cooling Systems for many years & have always been impressed with their team's quality of work and commitment to their customers!

- Melissa Dean - LMM

Contact Us



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