

Membership Spotlight

Webinar Announcement:

Title: A new approach in tropical recirculating aquaculture systems.

DATE: 3rd December: TIME: 13:00 CET

Farshad Shishehchian, PhD

Blue Aqua International Group , CEO & President/Founder

Dr. Farshad Shishehchian is the CEO & President/Founder of Blue Aqua International Group with a global presence in 14 countries and has a PhD in Terrestrial and Aquatic Ecology from the Alumni OF Kellogg School of Management in Chicago

More than 28 years of dynamic, hands-on experience in the world's top aquaculture producing countries. Managing aquaculture farms and hatcheries in different locations. Dr Farshad was the President of the World Aquaculture Society, Asia Pacific Chapter (2013-2016). He has dynamic, hand-on experience in managing farms and hatcheries and networking over 28 years.





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Industrial Spotlight

Aqua Logic, Inc.

Product Line: Water Temperature Blending and Flow Control Systems Valves and automated control limited only by the imagination



Aquatic researchers world-wide are investigating the effects of rising temperatures on marine ecosystems. Typical research set-ups are flow-through tank culture with tightly controlled water temperature. Aqua Logic provides economical, blending valve systems and complete water heating and chilling solutions that are tailor-made for this kind of work.

Each blending valve can mix ambient water with hot and cold flows, delivering consistent outflow at plus/minus 1-degree Fahrenheit (0.5 C) of the target temperature. Water supply lines can be configured to feed multiple blending valves, each achieving any set-point within the supply range.

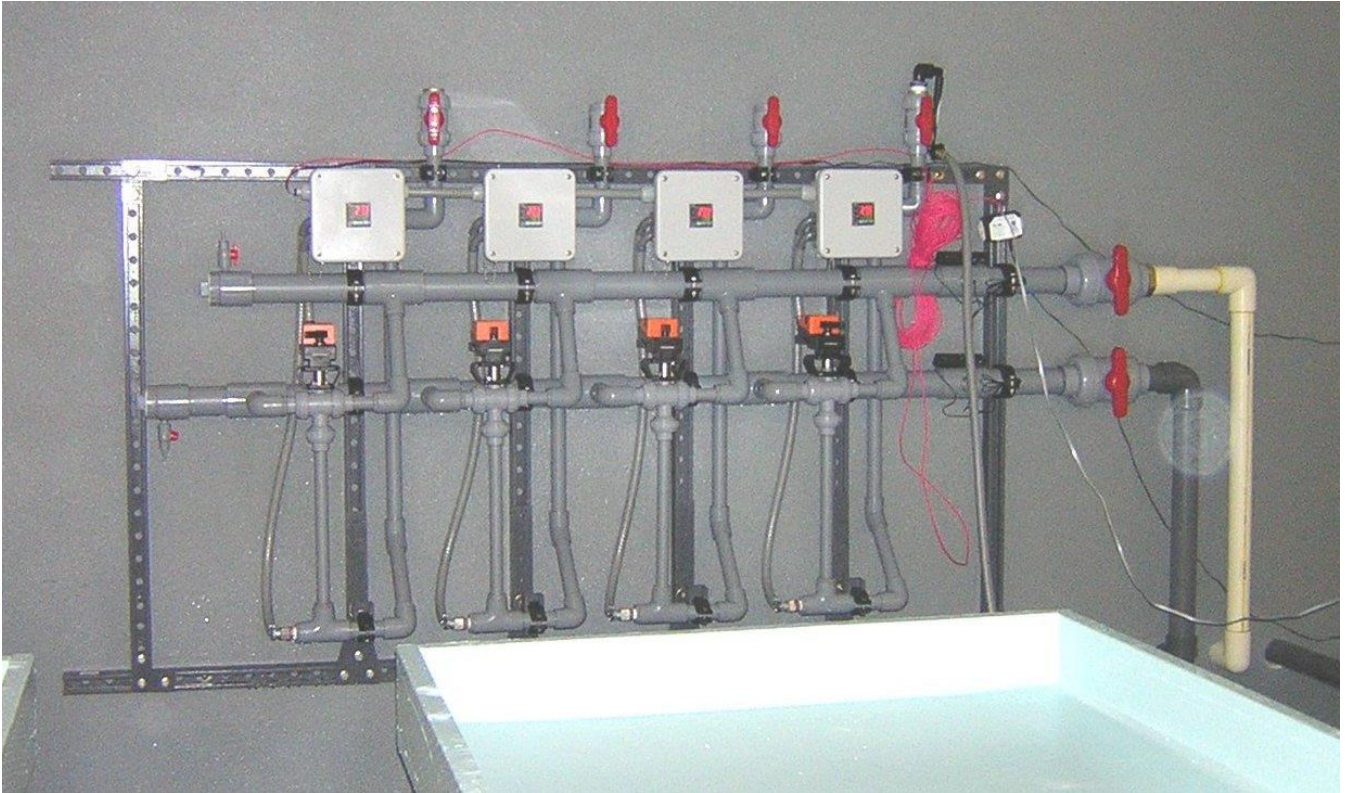
Aqua Logic staff work with clients to customize and integrate these blending systems, and ancillary valves, to meet operational objectives and ensure fail-safe operation. The versatile PID controller is custom-programmed for each application.

Temperature blending system features include:

- System design and integration, five to 110 gpm (19 - 416 Lpm).
- 100% fish-safe PVC/CPVC valves.
- Ultra-responsive PID-controlled temperature blending using cold, ambient, and warm water inflows. Outflow temperature control is accurate to plus/minus 1-degree Fahrenheit (0.5 C).
- Alarm and control outputs, data-logging, Modbus communications, parameter settings upload & download.
- Simulation of natural water body temperature fluctuations (diel & seasonal) via ramp-soak functions.
- Off-temperature shutoff, bypass, or recirculation, via automated valves.
- 24-VAC operation.
- Ultrasonic water level sensing and control.

Port Gamble Salmonid Research Facility, Kitsap County, Washington:

Four channel system – four outflow temperatures with heated and ambient inflow lines. Installed in 2005. Designed for addition of a chilled water line.



“I wanted to tell you how great the control and heating system design has worked in our laboratory. We have now been operating the laboratory non-stop for the past 4 years and have not had a single issue with the controller system. We are obtaining better control on temperatures than we originally requested and have met all requirements for the temperature controls for our toxicology business. In part due to these controls we have been successful at obtaining all state and federal certifications that we have pursued. Thanks again for the great planning and high quality work.” July 20, 2009.

Jack Q Word PhD
Director Environmental Sciences/Partner
NewFields Northwest, LLC
Port Gamble, Washington 98364

Coleman State Fish Hatchery, Anderson, California:

Ambient-temperature water is blended with hot or cold to achieve set-point. The controller is programmed to simulate the daily temperature swings of the local river system.



California Nevada Fish Health Center, FY2010 Technical Report:

Effects of a Simulated Klamath River Summer Temperature Profile on Juvenile Chinook Salmon (*Oncorhynchus tshawytscha*) Immune Function.

J.Scott Foott*, R. Fogerty, R. Stone, S Bjork, and J. Bigelow

Oregon State University, Corvallis, Oregon:

Salmonid Disease Lab. Multiple small blending racks



USGS, Columbia Environmental Research Center, Columbia MO.



Blending heated water with ambient. Downstream spring-return valve automatically diverts water to waste in the event that the product temperature is out of range. Design flow 25- 110 gpm (95 – 416 Lpm).



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