



AQUATIC ECO-SYSTEMS

SHRIMP HATCHERY AND FARM SOLUTIONS

FOR LATIN AMERICAN PRODUCERS

DESIGN, SOLUTIONS AND EQUIPMENT EXPERTISE

ADVANCED APPROACHES

The Latin American shrimping industry continues to enjoy vigorous growth. That means producers throughout the region are looking for the latest techniques and systems to increase yield and minimize issues.

INNOVATIVE EQUIPMENT



AQUATIC ECO-SYSTEMS





PENTAIR: YOUR PARTNER IN A CHANGING WORLD



With over 35 years of experience in aquaculture equipment, Pentair Aquatic Eco-Systems brings a wealth of practical, hands-on expertise to helping create the perfect environments for advancing production. From individual products to full systems, Pentair has the designs, solutions and expertise to establish and grow any shrimping operation.

30,000

EMPLOYEES

SIX

CONTINENTS

100+

MANUFACTURING FACILITIES

90+

SERVICE CENTERS

A photograph of a water treatment facility. In the foreground, there is a concrete wall on the left side, with water flowing over it. The water is dark and has ripples. In the background, there are more concrete structures and a fence. The overall scene is industrial and focused on water management.

FULL-SYSTEM SOLUTIONS

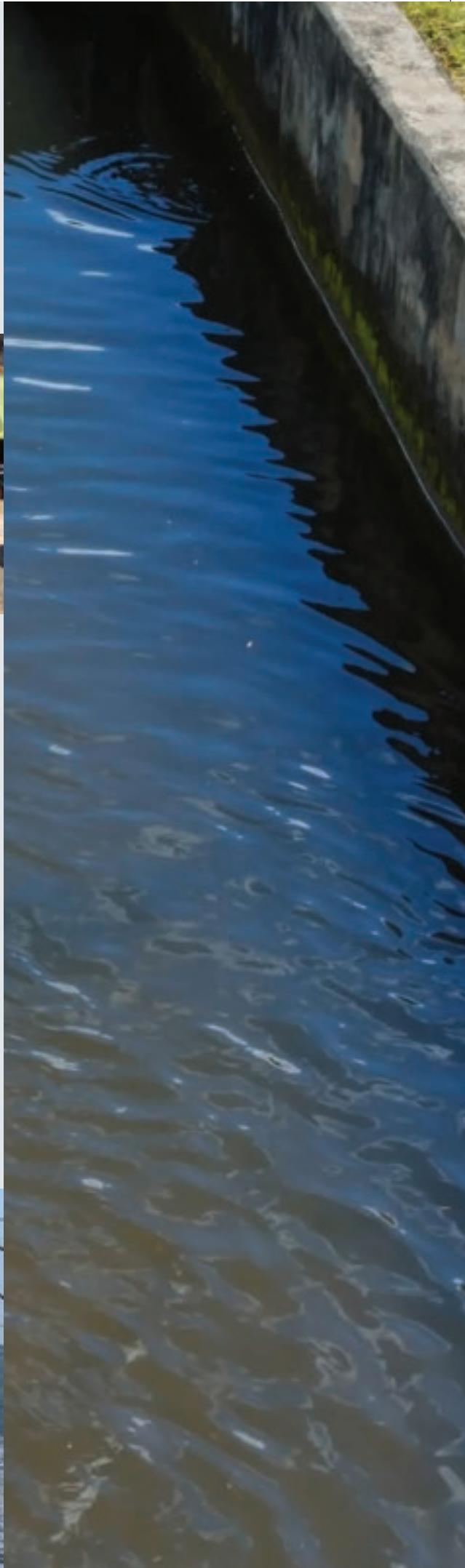
PENTAIR AES EXPERTISE
EVERY STEP OF THE WAY

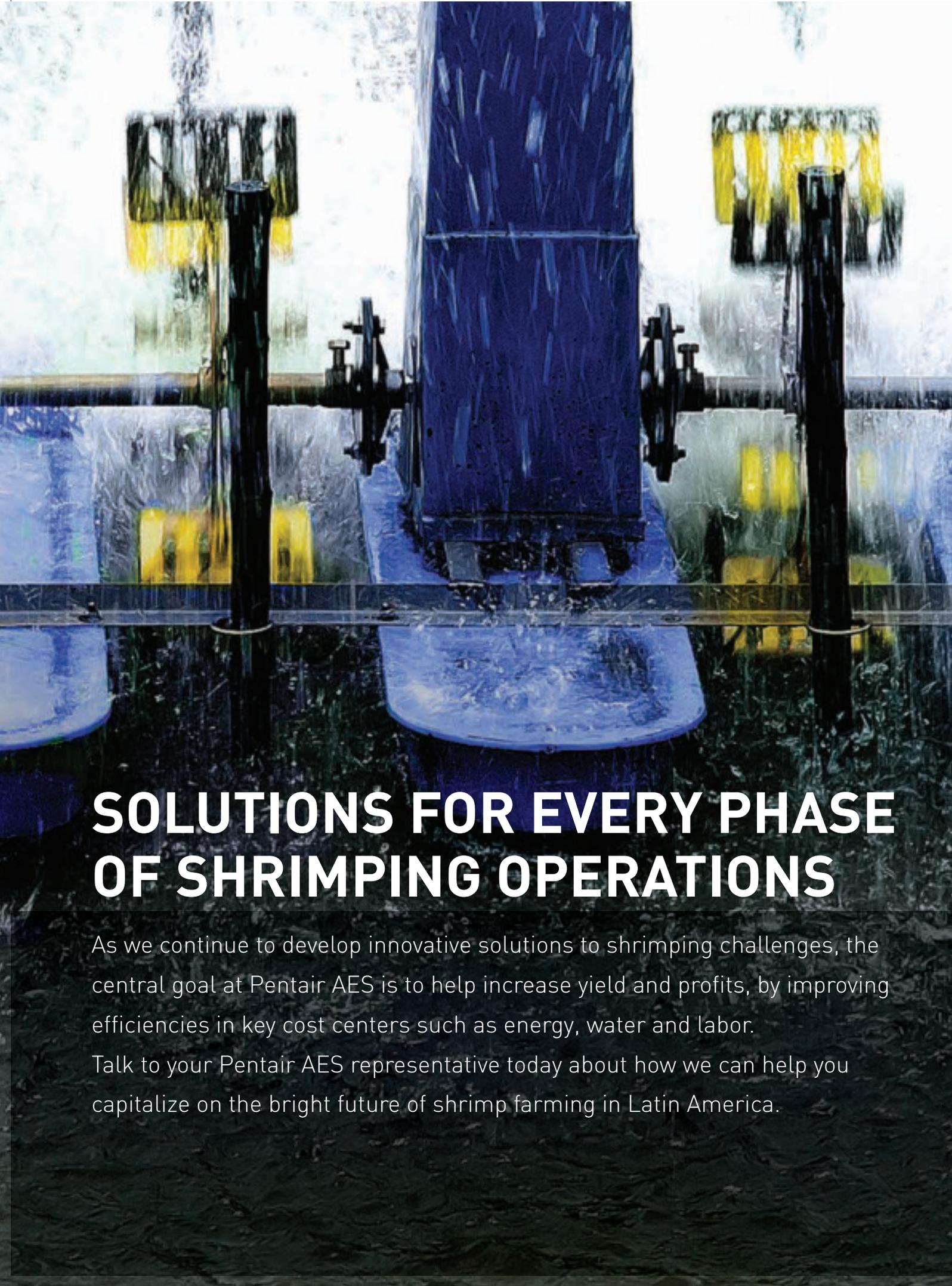


From hatchery to nursery to grow-out, Pentair AES experts bring more than three decades of experience to the design and implementation of complete systems.

Pentair AES custom configures to your specific operation, to deliver more efficient pumps, water filtration, disinfection and monitoring in the brood-stock, maturation and hatchery phase.

In addition, Pentair AES offers a full range of raceway and nursery solutions for the second and third phases, before shrimp are moved into grow-out ponds. Throughout the process, Pentair AES delivers custom solutions that are both efficient and bio-secure.





SOLUTIONS FOR EVERY PHASE OF SHRIMPING OPERATIONS

As we continue to develop innovative solutions to shrimping challenges, the central goal at Pentair AES is to help increase yield and profits, by improving efficiencies in key cost centers such as energy, water and labor.

Talk to your Pentair AES representative today about how we can help you capitalize on the bright future of shrimp farming in Latin America.

AERATION

Pentair offers a complete range of aeration equipment, including air pumps, regenerative blowers, compressors, air diffusers, porous diffuser tubing and surface aerators.



Sweetwater regenerative blowers

Compared to industry-standard commercial blowers, Pentair Aquatic Eco-Systems Sweetwater regenerative blowers are chosen for more corrosive environments, reach higher pressures and operate at lower noise levels.

FILTRATION AND DISINFECTION

A key element of successful systems, continuous circulation of water through mechanical and biological filters—including fluidized sand filters and Pentair moving-bed Sweetwater bio-media—removes solids and nitrogenous wastes, through the reduction of ammonia and nitrites. Effective biological measures cover bacterial species that help establish beneficial microbial communities under culture conditions. Disinfection is achieved through the use of ultraviolet sterilization, killing the most common pathogens at a high rate.



PUMPS AND SHRIMP TRANSFER

With an emphasis on high efficiency, select Pentair pumps offer features critical for the aquaculture industry, such as Constant Flow Technology, to deliver user-defined flow rates. Advanced units are programmable to adjust to tank conditions and are constructed of saltwater-compatible, corrosion-resistant plastic.



The PR Aqua® Heathro shrimp-transfer pump

Facilitates the movement of small postlarva from raceways to grow-out ponds, as well as the harvesting of large shrimp from ponds.

MONITORING AND CONTROL

Pentair Point Four custom-configured monitor/controller systems provide unparalleled visibility into the unique parameters of your aquatic facilities, together with the ability to monitor and control a nearly limitless number of system attributes. These systems give you the ability to manage oxygen dosing and levels automatically. You can even display real-time system values anytime from smartphones, laptops or tablets.



ESSENTIAL TOOLS AND PROCESSES

In addition to the major products listed here, Pentair AES has a full range of equipment available to recirculating aquaculture shrimp farmers for their brood-stock and maturation centers, as well as the essential laboratory equipment needed for running a successful hatchery.



FACILITY DESIGN AND EQUIPMENT

With the rapid expansion of the shrimping industry in Latin America, speed to market is a critical success factor. That's why Pentair AES is working closely with customers to bring complete shrimping operations online quickly, efficiently and profitably. A consultation with Pentair AES is the best place to start a successful shrimping venture.

TECHNICAL SUPPORT

Ensuring your success and satisfaction has always been our top priority. To reach that goal, Pentair AES field service and sales teams offer wide-ranging experience, expertise and insights to Latin American shrimping customers looking to reach the highest levels of efficiency, quality and profitability.

HEATING AND CHILLING

With a variety of heaters, chillers and heat exchangers, Pentair AES provides off-the-shelf and custom-designed technology for the aquaculture industry. The goal in each installation is to combine optimal farming conditions with peak energy efficiency—all the factors that help determine harvest and profitability.



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DESIGN, SOLUTIONS AND EQUIPMENT EXPERTISE

+1 407.886.3939 www.PentairAES.com

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