

Finish Thompson Advantages: Aquaculture Market



Aquaculture applications require precision systems

- **To maintain environmental controls**
Aquafarmers must maintain optimal conditions to cultivate growth.
- **To handle harsh environments**
Aside from the small number of chemicals being pumped in aquaculture applications, the salt-water environment can be the biggest contributor to pump failure.
- **To manage large and small interactive systems**
Both large tanks and small systems require a varied range of flows & head

Typical Aquaculture Pump Applications

Pump uses:

- Water filtration and recirculation
- Pumping medicines and chemicals from drums & totes
- Testing/sampling of aquatic environments

In these applications:

- **Recirculating aquaculture systems (RAS)**
 - *Clear water systems* – the most common form of RAS, where external filtration methods are used
 - *Biofloc systems* – the process in which an aquaculture system uses an internal biological mechanism for filtration
 - *Nursery systems* – RAS designed for larvae and juvenile life stages
 - *Grow out systems* – RAS where fish/shrimp are grown to harvest size
- **Hatchery systems** – typically RAS or flow-through, but encompass a wide range of stages including broodstock (spawning adults), eggs, larvae, fry, fingerlings, and smolts
- **Flow-through systems** – water enters from an external source, flows through the aquatic system, and then exits back to an external body
- **Aquatic life support systems** – a general term for commercial aquarium, research, and zoo/exhibit systems
- **Pond/lake culture** – a large body of water is used to culture aquatic organisms; very popular method throughout the world

The bottom line: Finish Thompson pumps offer rugged construction and reliable operation for demanding aquaculture environments. Aquafarmers and aquarium operators are turning to Finish Thompson **DB, SP, UC, and drum pumps** to meet the diverse needs of the aquaculture industry.



Compare and See

See how Finish Thompson pumps meet the demands of the aquaculture market.

Alternative Pumps	Finish Thompson Pumps
<p>Recirculation Leaky seals. The inevitable failure of seals means leaks, which can endanger aquaculture products. Downtime & lost productivity. Leaks require repairs or replacement as often as every 3 months, which increases costs, decreases productivity, and can be dangerous to the plants/animals Variable energy draw. When expanding operations with additional pumps, the new pump may draw more energy than the existing pumps.</p>	<p> Recirculation Leak-free operation. Mag-drive pump designs have no seals, so there are no leaks that would put sensitive aquaculture environments at risk. Important to note, all magnetic energy is safely contained inside the pump and is not transmitted to the fluid being pumped. Enhanced productivity. Aquafarmers enjoy improved productivity due to the reliability and low maintenance of Finish Thompson pumps. Energy efficiency. In multi-pump applications, Finish Thompson pumps offer equal energy draw.</p>
<p>Heat Transfer <i>May affect the surrounding temperature-controlled environment.</i> It is critical to maintain temperature/environment control in both cold & warm water systems, any variations in temperature can potentially be harmful.</p>	<p> Heat Transfer <i>Great for temperature-controlled settings.</i> Finish Thompson pumps have a low impact on surrounding environments, so they won't adversely affect temperature-controlled habitats.</p>
<p>Corrosion Resistance Some applications require a constant supply of external lubrication to the pump's seal.</p>	<p> Corrosion Resistance <i>Rugged, chemical-resistant construction.</i> Finish Thompson's engineered plastic compounds are ideal for salt environments. The pumps are designed for the transfer of acids, corrosives, and water treatment chemicals. They use high-quality, reliable TEFC motors, that are designed for harsh environments. Even in the most corrosive applications, FTI offers a wide variety of Chem-Duty motors.</p>
<p>Run-Dry Capability <i>Will fail in run-dry situations.</i> Run-dry scenarios result in the need for replacement. Operator error can easily destroy a pump.</p>	<p> Run-Dry Capability <i>Survives operator error.</i> This feature is key for aquaculture settings where new hires and visiting scientists often operate pumps. Finish Thompson's self-priming line (SP) retains fluid in the pump housing for added protection against accidental run dry.</p>
<p>Flow Rates <i>Many companies have "limited product offerings" and may not have pump models to meet flow needs.</i> Larger operations or unique settings may struggle to find an appropriate pump.</p>	<p> Flow Rates <i>Multiple FT series are available to meet a range of flow rate demands.</i> From just a few gallons per minute up to 1,400+ GPM.</p>
<p>Delivery <i>Slow and costly.</i> Replacement parts are often expensive, with up to 6-month turnaround times.</p>	<p> Delivery <i>In-stock supplies.</i> Pumps, parts, and motors are typically in stock and available with a quick turnaround. Finish Thompson carries more inventory to ensure some of the best lead times in the industry.</p>



Learn More

Contact your authorized Finish Thompson distributor
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