

Iwaki Aquatic

ZEBRAFISH System



System Features

- Available in stand-alone, flow-through and multi-rack configurations
- All systems feature constant flow technology with Iwaki Aquatic pumps that are speed controlled based on system pressure to maintain constant flow to the fish holding tanks
- Powder coated aluminum or stainless steel racks with leveling feet options
- Open shelving provides easy access to tanks, water feed and drain manifolds
- Available shelf spacing options for various clearances above holding tanks
- Modular rack design allows additional tank holding levels to be added to the top of the rack and allows the rack system to be easily reconfigured as your lab needs change
- System plumbing is designed with unions in strategic locations so the entire system can be easily disassembled for cleaning
- Titanium heater standard for 5C heat-up with titanium chiller options

LAB REED®

Five Shelf Single-Sided System



Filtration System

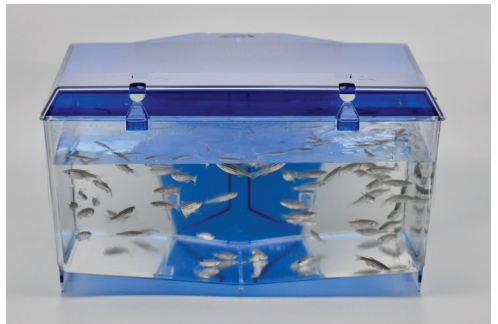
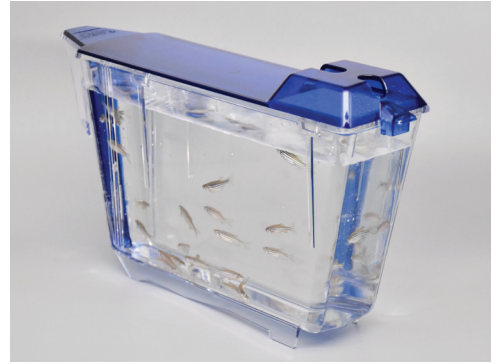
- Low maintenance oversized moving bed biofilter
- Stainless steel UV unit
- Large capacity 50-micron cartridge filter
- 600 gram capacity activated carbon filter
- Submerged 200 micron pre-filter bag



Easy access to all components including UV, titanium heater, pumps and web enabled controller

Innovative Tank Design

- 2 liter, 4.5 liter, and 9 liter polycarbonate tanks
- Innovative adult baffle design with vertical tube that provides self-cleaning flow for the removal of settleable solids.
- Tank and rack combine to create 5-degree slope towards tank vertical tube drain for improved solids removal efficiency
- Locking lid ensures proper placement, security and prevents fish escape
- Three-piece tank assembly (tank, lid, and baffle) are autoclavable and easy to clean with no recesses or complicated parts
- Larval baffles are color coded for easy identification of the 400, 700, and 1000 micron sizes. Tanks include two slots for larval baffle placement



Iwaki Aquatic Life Support Controller



- Monitor and control your system remotely with any internet ready device and our powerful cloud based software platform
- Sends email or SMS text alerts when parameters are out of range
- Chart/graph water quality parameters over time. Up to 90 days with 15 minute sampling intervals
- Standard with pH, temperature, conductivity sensors and dosing control
- System includes level and flow sensors for safety and shut-down of electrical components in the event of a low water or low flow situation

Specifications



ITS-Z Five Shelf System

ITS-Z Six Shelf System

Tank Options	2 Liter	4.5 Liter	9 Liter	2 Liter	4.5 Liter	9 Liter
Tank Quantity	80	40	20	96	48	24
Zebrafish Capacity @ 10 Fish/Liter	1,600	1,800	1,800	1,920	2,160	2,160
Total System Volume (Liters)	235	255	255	267	291	291
Total Tank Volume (Liters)	160	180	180	192	216	216
Turnover Rate per Hour	6			6		
UV Dose Rate uW-sec/cm2 (*EOLL 12 Months)	118,000			110,000		
Mechanical Filter, 50 Micron	0.55 M2			0.55 M2		
Activated Carbon Filter	600 grams			600 grams		
System Dimensions, Centimeters	Width	Depth	Height	Width	Depth	Height
System Dimensions, Inches	201	36	203-229**	201	36	229-259**
	79	14	80-90**	79	14	90-102**
Operating Weight with 4.5L or 9L Tanks	419 Kg, 935 Lbs			465 Kg, 1,025 Lbs		
Voltage/Hertz/Amps with Heater	120/60/12 or 230/50-60/6			120/60/12 or 230/50-60/6		

Notes:

4.5L and 9L tanks can be mixed on a shelf. 2L tanks use a 16 outlet manifold, 4.5/9L tanks use an 8 outlet manifold

* EOLL- end of lamp life

**Overall height depends on shelf spacing selected

About Iwaki Aquatic

Iwaki Aquatic was established as a division of Iwaki America in 2016 to support the aquatic research community. Iwaki Aquatic's mission is to build quality aquatic research systems that are extremely reliable and easy to both use and maintain. Our 60+ years of experience in designing and building controllers and pumps for global water treatment applications, position us as the leader in both technology and value. Our aquatic team includes aquaculture specialists, biologists, engineers and customer service experts with many years of experience supporting aquatic research systems. Our standard aquaria rack systems are designed specifically for the African Clawed Frog *Xenopus* spp. and Zebrafish *Danio rerio*, but over the years our experts have designed and built custom systems for over 150 different aquatic organisms. No project is too big or too small.

Contact us today to start your project!



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• Iwaki Aquatic • 330 Hopping Brook Rd • Holliston MA 01746 • gofish@iwakiaquatic.com • iwakiaquatic.com •