

LAB REED®

Iwaki Aquatic  
Bench-Top **ZEBRAFISH** System



# System Features

- Available in two and three shelf configurations
- Standard systems are recirculating systems with 10% water change per day
- All systems feature constant flow technology with an Iwaki Aquatic pump that is speed controlled based on system pressure to maintain constant flow to the fish holding tanks
- Powder coated aluminum rack with leveling feet
- Structural support bench for the system is available
- Open shelving provides easy access to tanks, water feed and drain manifolds
- 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®

Two Shelf System



Three Shelf System



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

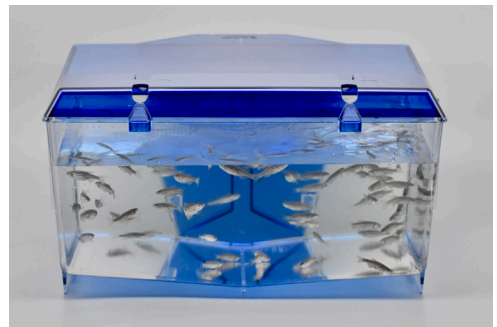
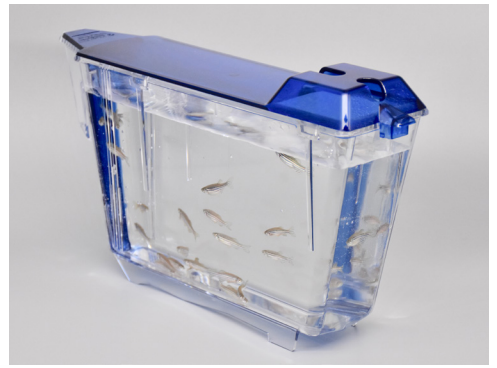


## Filtration System

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

## Innovative Tank Design *Patent Pending*

- 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 Three Shelf Bench-Top		ITS-Z Two Shelf Bench-Top	
Tank Options	2 Liter	4.5 Liter	2 Liter	4.5 Liter
Tank Quantity	36	18	24	12
Zebrafish Capacity @ 10 Fish/Liter	720	810	480	540
Total System Volume (Liters)	127	136	103	109
Total Tank Volume (Liters)	72	81	48	54
Turnover Rate Per Hour	6	6	6	6
UV Dose Rate uW-sec/cm <sup>2</sup> (*EOLL 12 Months)	150,000	135,000	230,000	200,000
Mechanical Filter, 50 Microns	0.46 m <sup>2</sup>	0.46 m <sup>2</sup>	0.46 m <sup>2</sup>	0.46 m <sup>2</sup>
Activated Carbon Filter	350 Grams	350 Grams	350 Grams	350 Grams
System Dimensions, cm (W x D x H)	152 x 36 x 127	152 x 36 x 127	152 x 36 x 112	152 x 36 x 112
System Dimensions, inches (W x D x H)	60" x 14" x 50"	60" x 14" x 50"	60" x 14" x 44"	60" x 14" x 44"
Operating Weight, kg	259	272	223	232
Operating Weight, lbs	571	600	492	512
Voltage/Hertz/Amps with Heater	120/60/6 or 230/50-60/3		120/60/6 or 230/50-60/3	

**Notes:**

4.5L and 9L tanks can be mixed on a shelf. 2L tanks use a 12 outlet manifold, 4.5/9L tanks use 6 outlet manifold

\* EOLL - end of lamp life

## 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!

