

# IWAKI AQUATIC BENCHTOP ZEBRAFISH SYSTEM



## Benefits of the Benchtop System



Available in two, three, and four shelf configurations with short and tall spacing options

All systems feature Constant Flow Technology with Iwaki Aquatic pumps that are speed controlled based on system pressure to maintain consistent flow to the animal holding tanks

Powder coated aluminum with leveling feet options

Open shelving provides easy access to tanks, water feed and drain manifolds

Equipped with smart filtration monitoring, real-time alerts, and low-maintenance filtration components for effortless upkeep

Active water quality monitoring and proportional dosing for pH and conductivity up or down

Titanium chiller and heat exchanger options available



### Available Options:

Saltwater version

Lighting and Aeration

Feederbot Compatible

## 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



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 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

Simple three-piece tank assembly (tank, lid, and baffle) are autoclavable and easy to clean with no recesses or complicated parts

Larval screens are color coded for easy identification of the 400, 700, and 1000 micron sizes. Tanks include two slots, allowing for easy exchange of larval screens without larval escape

## Iwaki Aquatic Life Support Controller

Easy to use color touch screen with intuitive navigation menu

Monitor and control your system remotely using any internet-ready device through our powerful cloud-based software platform, with support for Ethernet connectivity. Receive instant email or SMS text alerts when system parameters fall outside of your defined 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. Options for TDGP, DO, and other sensors available

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



## 2 Shelf Benchtop

## 3 Shelf Benchtop

## 4 Shelf Benchtop

Tank Options	2 Liter	4.5 Liter	9 Liter	2 Liter	4.5 Liter	9 Liter	2 Liter	4.5 Liter	9 Liter
Tank Quantity	24	12	6	36	18	9	48	24	12
Zebrafish Capacity @ 10 Fish/Liter	480	540	540	720	810	810	960	1080	1080
Total System Volume (Liters)	103	109	109	127	136	136	151	163	163
Total Tank Volume (Liters)	48	54	54	72	81	81	96	108	108
Turnover Rate per Hour (Tank Volumes)	6			6			6		
UV Dose Rate mJ/cm <sup>2</sup>	192			128			93		
Mechanical Filter, 50 Micron	0.46 M <sup>2</sup>			0.46 M <sup>2</sup>			0.46 M <sup>2</sup>		
Activated Carbon Filter Capacity	350 grams			350 grams			350 grams		
System Dimensions, Centimeters	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height
	152	36	112	152	36	127	152	36	142
System Dimensions, Inches	60	14	44	60	14	50	60	14	56
Operating Weight with 4.5L or 9L Tanks, kg	232 kg			272 kg			312 kg		
Operating Weight with 4.5L or 9L Tanks, lbs	512 lbs			600 lbs			688 lbs		
Power Requirements	120V/60Hz/6A or 230V/50Hz/3A			120V/60Hz/6A or 230V/50Hz/3A			120V/60Hz/6A or 230V/50Hz/3A		

### Notes:

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

\*Overall height depends on shelf spacing selected

## Aquatic Expertise. Exceptional Service.

Since 2016, Iwaki Aquatic, a division of Iwaki America, has been dedicated to advancing aquatic research with high-quality, reliable systems for Zebrafish, Xenopus, and over 150 other species. With a strong focus on Zebrafish, we continuously develop innovative products and accessories that meet the evolving needs of modern labs. Backed by 60+ years of global water treatment expertise, our aquatic team includes aquaculture specialists, biologists, engineers and customer service experts with many years of experience supporting aquatic research systems. With an expanded production facility, competitive pricing, and a new E-Store, it's easier than ever to equip your lab with leading aquatic research technology, backed by intuitive solutions and unmatched support.

**No project is too big or too small.**

Contact us today!

**[iwakiaquatic.com](http://iwakiaquatic.com)**



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