

# ITS-Z ZEBRAFISH SYSTEM



## Benefits of the ITS-Z System

Available in four to seven 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 fish holding tanks

Powder coated aluminum rack 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

Titanium heater standard for 5C heat-up with options for heat shock and chilling

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

Bypass filters or sensors when needed

LAB REED®



### Available Options:

Saltwater version

Lighting and Aeration

High-flow version with 3 pumps

Larger capacity sediment filter

## Filtration System

Low maintenance oversized moving bed biofilter featuring floating plastic bio-media

Stainless steel UV unit with minimum 160 mJ/cm<sup>2</sup> UV-C dose rate; HDPE housing available

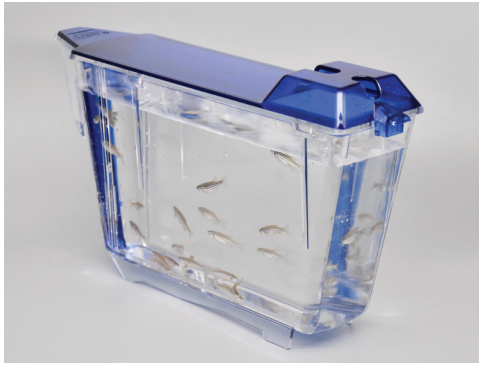
Large capacity 50-micron cartridge filter

600 gram capacity activated carbon filter

Reuseable 200 micron pre-filter bag



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



## Patented Tank Design

2 liter, 4.5 liter, and 9 liter polycarbonate tanks

Innovative baffle design with vertical tube that provides the best tank cleaning in the industry

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 both Wi-Fi and 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



## 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)	250	270	270	282	306	306
Total Tank Volume (Liters)	160	180	180	192	216	216
Turnover Rate per Hour (Tank volumes)	6			6		
UV Dose Rate mJ/cm <sup>2</sup>	180			160		
Mechanical Filter, 50 Micron	1.3 M <sup>2</sup>			1.3 M <sup>2</sup>		
Activated Carbon Filter	600 grams			600 grams		
System Dimensions, Centimeters	Width	Depth	Height	Width	Depth	Height
	201	36	203-229*	201	36	229-259*
System Dimensions, Inches	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		
Power	15A 120v/60Hz	or	15A 230v/50Hz	15A 120v/60Hz	or	15A 230v/50Hz

### 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

\*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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