ELECRO ENGINEERING

aquaLOGIC
Aquatic Design
Manufacturing & Integration

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# EVOLUTION 2

## (ALL TITANIUM)

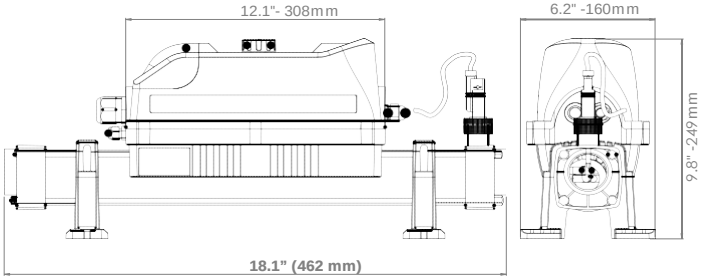
A fully titanium heater by Elecro, Evolution 2 is the upgraded version of the Evolution. It provides efficiency safety and above all reliability to effortlessly heat your aquariums, pool, spa or ponds to the desired temperature.

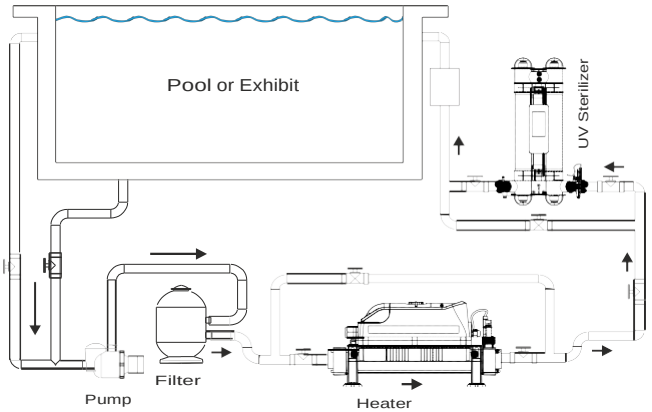


## FEATURES

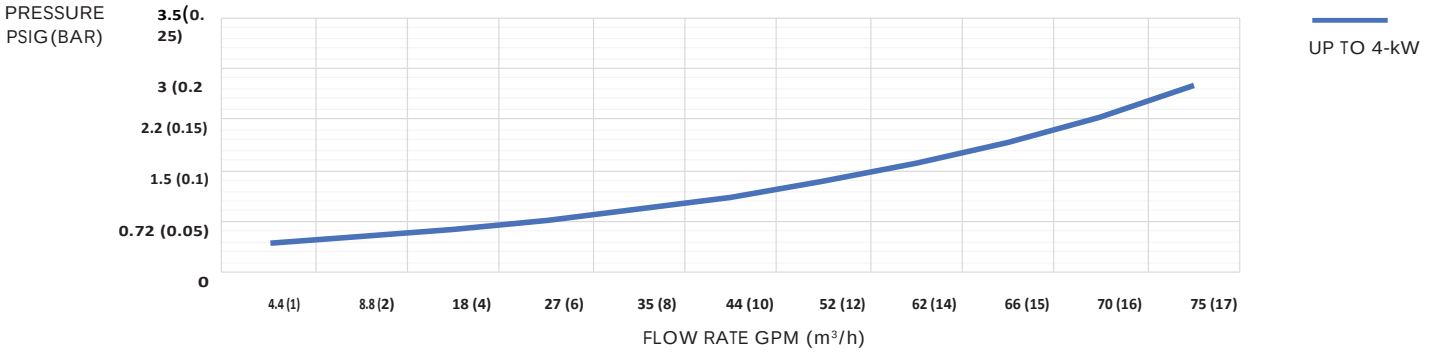
- Five power options ranging from 1.5-kW to 4-kW
- Easy installation, fully equipped and pre-wired
- Robust, durable construction
- Ultra-reliable flow switch allows safe operation
- Temperature thermostat and overheating sensor
- Compact, durable design
- Digital control with 2˚F (1.2˚C) differential and selectable multi-lingual display
- Titanium flow tube and titanium heating element
- Can be horizontal or vertically wall mounted
- Vortex, long life, stay clean heating element technology
- 100% efficiency throughout the product life
- Silent operation

## TECHNICAL DRAWINGS




## PRESSURE DROP



# SPECIFICATIONS

| | |
|---|---|
| **POWER SUPPLY** | 115V and 220 Volt Single Phase |
| **FLOW REQUIREMENTS** | Minimum flow: 5 GPM (1m³/h)<br>Maximum flow: 75 GPM (17m³/h) |
| **HEATING ELEMENTS** | Grade 1 titanium |
| **FLOW TUBE** | Grade 1 titanium |
| **CONTROL THERMOSTAT** | Digital: Range 32 > 113°F (0 > 45°C)<br>with 1°F (0.5°C) differential |
| **SAFETY THERMAL CUT OUT** | 140°F (60°C) manual reset |
| **FLOW SWITCH** | Gold tipped reed switch with titanium fulcrum pin |
| **CONTACTOR** | Siemens 3RT2023 or 3RT2027 |
| **SEALS** | High temperature special formula EPDM ferrules, TPE end fitting gaskets |
| **WATER CONNECTIONS** | 1.5" BSP female thread supplied with 1½" NPS / 50mm stepped ABS unions for rigid pipe and 1½" / 1¼" stepped hose tails for flexible pipe |
| **INTERNATIONAL PROTECTION MARKING** | IP44 |
| **FREQUENCY** | 50/60 Hz |
| **WORKING PRESSURE** | 58 PSIG (4 bar) maximum |
| **MOUNTING** | Floor or wall mounting |

# MODELS

| PRODUCT MODEL<br>Aqua Logic / Elecro | VOLTS<br>1-PHASE | LOAD<br>AMPS | MIN.<br>BREAKER /<br>FUSE SIZE | NET WEIGHT<br>Lbs. / kg | GROSS WEIGHT<br>Lbs. / kg |
|---|---|---|---|---|---|
| HTI-1.5-115 / EP-T21-5-USA | 115 | 13 | 20 | 9.5 / 4.3 | 12 / 5.5 |
| HTI-2-115 / EP-T22-USA | 115 | 18 | 25 | 9.5 / 4.3 | 12 / 5.5 |
| HTI-2-220 / EP-T02-USA | *208-240 | 9 | 15 | 9.5 / 4.3 | 12 / 5.5 |
| HTI-3-220 / EP-T03-USA | *208-240 | 14 | 20 | 9.5 / 4.3 | 12 / 5.5 |
| HTI-4-220 / EP-T04-USA | *208-240 | 18 | 25 | 9.5 / 4.3 | 12 / 5.5 |

**NOTE:**
**These heaters are designed for indoor use only.**
***When operating heaters on 208 volts, heater output is 11% less and at 240 volts the output 19% greater.**
**These heaters are NOT UL, cUL or CSA certified.**