ELECRO
FLUID DYNAMICS

aquaLOGIC
Aquatic Design
Manufacturing & Integration



Cygnet

Analogue Aquatic Heater

0.5-kW to 1.5-kW - 110 ~ 120V 1 Phase

Features

- **Fully equipped**
- **Easy installation**
- **Robust, durable construction**
- **Analogue control thermostat with 2 thru 35°F differential**
- **Titanium heating element**
- **Titanium flow tube**
- **Ultra-reliable flow switch allows safe operation as low as 265 gallons per hour (GPH)**
- **May be floor or wall mounted**
- **Safety thermal cut out (manual reset)**
- **1 year conditional warranty**

Construction

Specifically designed to ensure maximum safety, reliability and efficiency, the Cygnet Aquatic heater is user-friendly and all 110~120V models are supplied complete with power cord, offering 'plug & play' installation. The thermostat dial gives you control over the desired water temperature, while the thermal safety cut-out protects against over-heating.

Designed and manufactured to the highest specification. The Cygnet features our unique and proven coiled heating element technology, whereby a turbulent vortex is created in the water flow. This delivers outstanding efficiency and extended life expectancy by preventing build up of mineral debris and deposits on the heating element, which are specifically designed for pond/ aquatic applications.

Construction consists of titanium flow tube which is fitted with molded polymer water inlet and outlet fittings. The outlet fitting accommodates a flow switch with a gold tipped reed, and titanium fulcrum pin, while the inlet fitting has been designed to ensure full immersion of the element, greatly reducing the risk of air locking.
The heater can be mounted vertically on the wall or on the floor with the control components located on the top of the case. Screw fit adapters are supplied to allow connection to standard 1½" or 1¼" flexible hose, and 1½" ABS union disconnects for rigid pipe.

Operation

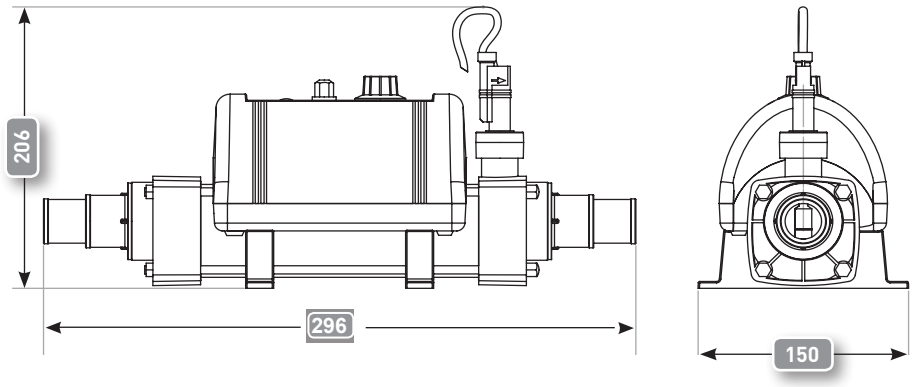
The desired water temperature can be easily set on the Elecro Cygnet heater using the panel-mounted thermostat dial. The heater has two safety protection cutouts provided by both the highly reliable water flow switch and over-heating thermal cutout with a manual reset.

Specification & Models

Power supply:	110~120V single phase
Flow requirements:	Minimum flow = 1m³/h (1,000 litres per hour / 265 U.S gallons per hour) Maximum flow =17m³/h (17,000 litres per hour / 4490 U.S gallons per hour)
Heating Element:	Titanium
Flow tube:	Titanium
Control thermostat:	0 ~ 113°F (35°F differential)
Safety thermal cut out:	130°F (manual reset)
Flow switch:	Gold tipped reed switch with titanium fulcrum pin
Wiring:	High temperature, silicone sheathed, multi-strand copper conductors Special
Seals:	formula high temperature polymer
Water connections:	1.5" BSP female thread supplied with 1½" to 50mm ABS unions for rigid pipe and 1½" or 1¼" hose tails for flexible pipe
Working pressure:	4 bar maximum
Mounting:	Floor or wall mounting
Standards compliance:	European Electromagnetic Compatibility directive 89/336/EEC and 93/068/EEC
Harmonised Standards:	EN 55014 – EN55104, EN 5501, EN 5502, CEI 801-4, CEI 801-2, CEI 801-3 The European Low Voltage Directive 72/23/EEC The Harmonised Standard EN 60335-2-35

110 ~ 120V 1 Phase Power Output	Load	Titanium Flow Tube & Titanium Element Product Code
0.5-kW	4.5-Amp	AL-KC-0.5-115-T
1.0-kW	9-Amp	AL-KC-1.0-115-T
1.5-kW	13-Amp	AL-KC-1.5-115-T

Dimensions (mm)



Manufacturer:

ELECTRO FLUID DYNAMICS

11 Gunnels Wood Park
Stevenage
Hertfordshire
SG1 2BH
United Kingdom
t: +44 (0) 1438 749 474
f: +44 (0) 1438 361 329
e: info@elecro.co.uk
w: www.elecro.co.uk

USA, Canada and Mexico Distributor:

aquaLOGIC
Aquatic Design Manufacturing & Integration

Aqua Logic, Inc.
2806 Gray Fox Rd.
Monroe, NC 28110 USA
t: 704.744.1391
e: info@AquaLogicinc.com
w: www.aqualogicinc.com