ELECRO

FLUID DYNAMICS

aquaLOGIC
Aquatic Design
Manufacturing & Integration

Optima Compact Plus

Aquatic Heater

6-kW to 15-kW 220 ~ 230V 1 or 3 Phase

9-kW to 19.5-kW 460 ~ 480V 3 Phase



Features

- Exceeds all known Global standards for safety and reliability.
- Dual Schneider Electric Contactors to ensure ultimate reliability.
- Touch screen digital thermostat adjustable up to 33°F differential.
- Stay-clean vortex inducing flow over Titanium heating elements.
- Status indicator panel.
- Robust and duable.
- Floor or wall mountable (bracket supplied) Indoor Use Only.
- Silent Operation.
- 1 year conditional warranty.

Construction

The Elecro Optima Compact Plus comes with corrosion-resistant titanium heating elements as standard, making it highly robust and durable.

The Optima Compact Plus is designed and manufactured to the highest specifications at the Elecro facility in Hertfordshire, England. Compact in design, robust and ultra-reliable, this heater is made to last, providing you the perfect water temperature with easy to use controls.

All Elecro electric heaters feature 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 the buildup of mineral and debris deposits on the heating elements.

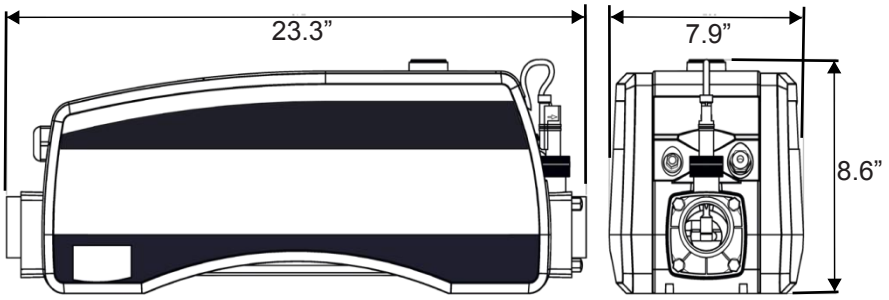
Operation

The Optima Compact Plus can be easily operated using the touch screen digital thermostat. The inlet moulding has weir chambers which induce a vortexing action eliminating the risk of air locking and reducing encrustation build up on the heating elements; while the outlet moulding accommodates a flow switch with gold tipped reed, for ultimate reliability and safety. Over-heating is prevented by a thermal safety cut-out which can be manually reset.

The heater can be vertically wall-mounted using the supplied bracket, or free-standing.

Dimensions

FOR INDOOR USE ONLY



Specification & Models

Flow requirements:	Minimum flow: 6 and 8 kW = 10 GPM / 38 LPM @ 0.5 PSID / 7.25 Bar 9 kW and larger = 25 GPM / 95 LPM @ 1.0 PSID / 14.5 Bar Maximum flow: 6 and 8 kW = 45 GPM / 171 LPM @ 1.5 PSID / 21.75 Bar 9 kW and larger = 45 GPM / 171 LPM @ 2.25 PSID / 32.6 Bar
Heating Elements:	Titanium, low watts density
Flow tubes:	Pure Titanium (Optima Compact *plus*)
Contactor:	Dual Schneider Electric contactors.
Control thermostat:	32 ~ 104°F Range. (1 - 33°F differential)
Safety thermal cutout:	130°F (manual reset)
Flow switch:	Gold tipped reed switch with Titanium fulcrum pin.
Wiring:	High temperature, silicone sheathed, multi-strand copper conductors.
Seals:	High temperature special formula EPDM.
Water connections:	1.5" NPS ABS unions.
Working pressure:	58 psi / 4 bar maximum.
Mounting:	Floor or wall mounting. (INDOOR USE ONLY)
Standards:	European Electromagnetic Compatibility directive 89/336/EEC and 93/068/EEC
Compliance:	EN 55014 – EN55104, EN 5501, EN 5502, CEI 801-4, CEI 801-2, CEI 801-3
Harmonised:	The European Low Voltage Directive 72/23/EEC
Standards:	The Harmonised Standard EN 60335-2-35

220 ~ 230V 1 Phase Power Output*	Load (Amps)	Optima Compact *Plus* Aqua Logic Part #	
6-kW	28	HTIO-6-220	
8-kW	37	HTIO-8-220	
12-kW	55	HTIO-12-220	
15-kW	69	HTIO-15-220	
18-kW	82	HTIO-18-220	

220 ~ 230V 3 Phase Power Output	Load (Amps)	Optima Compact *Plus* Aqua Logic Part #	
6-kW	16	HTIO-6-220-3	
8.4-kW	22	HTIO-8-220-3	
12-kW	32	HTIO-12-220-3	
15-kW	40	HTIO-15-220-3	
18-kW	48	HTIO-18-220-3	

460 ~ 480V 3 Phase Power Output	Load (Amps)		Optima Compact *Plus* Aqua Logic Part #	
	460V	480V		
9-kW	11	11.5	HTIO-9-460-3	
12-kW	14.5	15	HTIO-12-460-3	
17.5-kW	21	22	HTIO-17-460-3	
19.5-kW	23.5	24.5	HTIO-19-460-3	

*Other outputs and supply voltages available upon request

For 208V / 1 phase output ratings reduced by approx. 10%
For 240V / 1 phase output ratings increase by approx. 10%

Manufacturer:

ELECRO
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

Master Distributor for USA, Canada and Mexico:

AQUALOGIC
Aquatic Design Manufacturing & Integration

2806 Gray Fox Rd
Monroe, NC. 28110 USA

t: +1 (0) 858 292 4773
f: +1 (0) 858 279 0537
e: info@AquaLogicinc.com
w: www.aqualogicinc.com