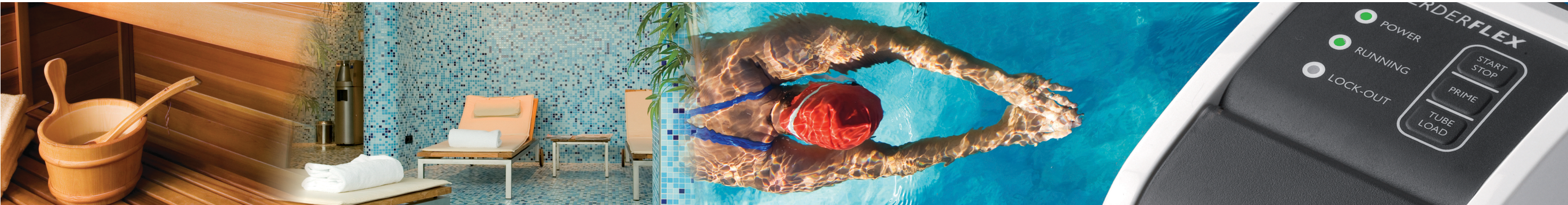
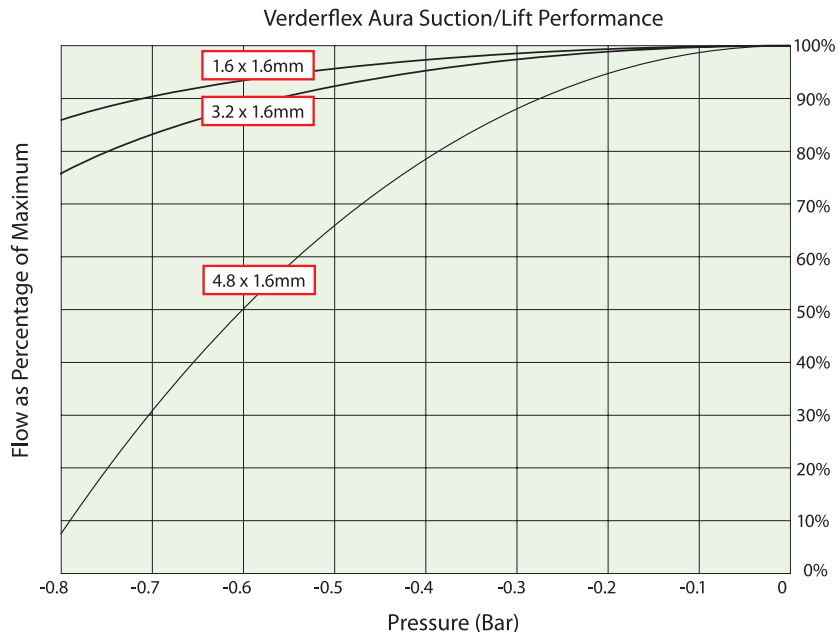
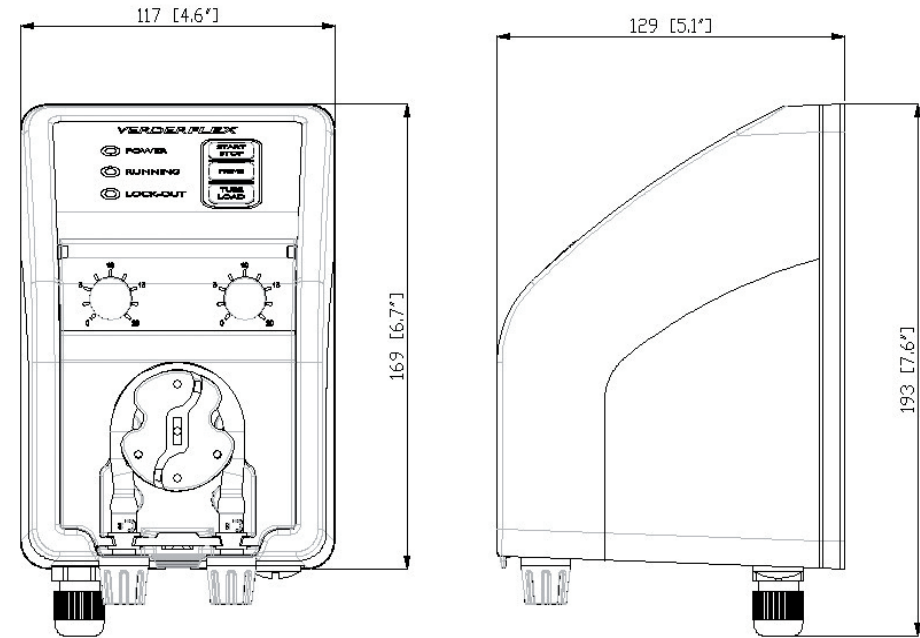


Technical Overview

Function	Detail	
PCB	Microprocessor Controlled Timer Circuit	
Power supply	230 VAC 50Hz 15W (110V version available to special order)	
Input signals	2 - 24VDC	(initiate dose)
	230VAC	(initiate dose)
	Volt free contacts	(initiate dose)
Indicators	Power on	(green)
	Dosing in progress lamp	(green)
	Controls Locked out	(red)
Connectors	6 x 4mm and 8 x 5mm	
Keypad	Embossed 3 button overlay with Led's and Electroluminescent lighting	
Motor	220V 50Hz a.c. Synchronous 50 RPM	
Gearbox	Planetary (7.5 Ratio)	
Torque	0.46 Nm	
Working temperature	5 - 40 °C	
Enclosure	IP66 / NEMA 4	
Pump head	R25, 2 roller rotor	

General Arrangement Layout



VERDERFLEX AURA

**Any questions?** You may still have questions and/or comments after reading this brochure. Please feel free to contact us on +44 (0)113 222 0250. You can also respond via email to [info@verderflex.com](mailto:info@verderflex.com). For more information about Verderflex please visit our website [www.verderflex.com](http://www.verderflex.com)

Peristaltic Dosing Pump

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**VERDER**  
passion for pumps



# Verderflex Aura

## Peristaltic Dosing Pump

The Verderflex Aura is a low flow, high pressure dosing tube pump. Designed to offer high performance in the smallest of packages, this pump is ideal for dosing chlorine in swimming pools, leisure centres and spas. The small, compact design is unobtrusive and fits ideally within a cosmetic environment.



### Features and Advantages

The pump features an easy to access pump head with a simple to use tube load facility for additional safety. Timed dosing and lock out functions also ensure that the correct dose is always supplied with no possibility of overdosing.

The pump can deliver up to 80 ml/min or 0.02 US GPM. Lower flow rates can achieve pressures up to 4 bar or 58 PSI. The pump includes:

- Start/Stop button
- Fixed speed timer control
- Timed dose (up to 20 mins.)
- Timed lock out period (up to 20 mins.)
- Priming function
- Easy tube load facility
- 2 roller rotor
- Embossed 3 button overlay
- LED's and electroluminescent lighting
- Easy to see colour indicators
- IP66 enclosure

### Benefits

- Safe to run
- Silent running
- Hygienic
- Accurate
- No vapour lock

Verderflex dosing pumps are suitable for a wide range of applications:

#### Swimming pools, leisure centres, saunas and spas

Sodium hypochlorite, sodium hydroxide, sulfuric acid, flocculants, fragrances, essential oils

#### Water treatment

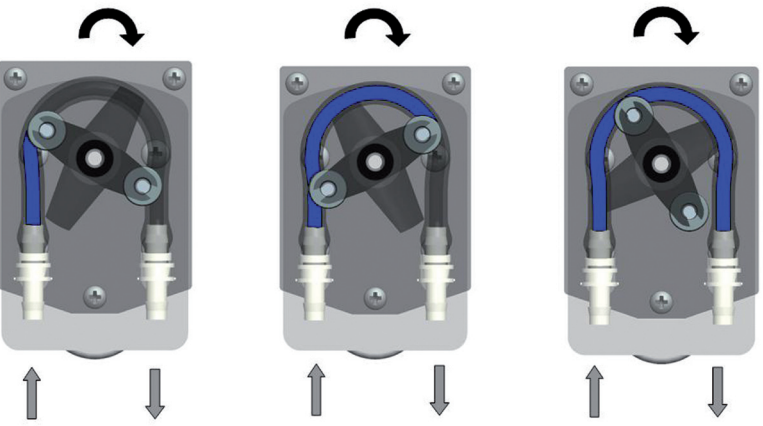
Hydrochloric acid, sulfuric acid, hydrogen peroxide, flocculants

#### Cooling towers, cooling water treatment

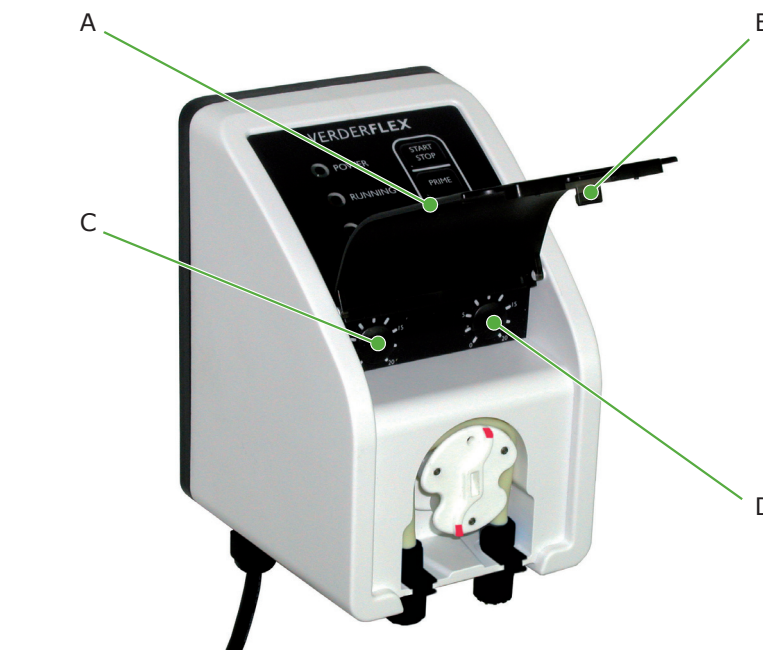
Biocides, hydrogen peroxide, sodium hypochlorite

## Working Principle

Peristaltic tube pumps are the ideal dosing pumps due to their natural pumping action. A rotating roller passes along the length of a tube compressing it completely against the pump casing. After the roller passes, the flattened tube regains its round profile creating a vacuum inside the tube which draws in liquid. The second roller maintains the seal between the suction and discharge sides, trapping the medium and pushing it out on the delivery side of the pump.



This continuous and even motion creates accurate and metered dosing. Verderflex® Aura - The relaxing way to dose.



- A. Flip up lid contains a transparent section so turning rotor is visible
- B. Flip up lid, latched to prevent accidental opening
- C. Dosing timer
- D. Safety lockout timer

Both timers have removable tamper evident plugs with screwdriver slot adjustment, preventing unauthorised adjustment.

### Easy Tube Loading



1. Press PRIME to rotate the rotor to the correct position



2. Insert tube assembly hooking into cut out. Hold the other end across the pump face



3. Press TUBE LOAD. Rotor will step intermittently and feed the tube



4. Continue to feed tube until it locates into housing slot

### Easy to use and safe as well

What makes the Verderflex Aura so unique is the easy control system that is utilised. Changing over tubing is the only time you will ever need to complete any sort of maintenance work on the pump. But you won't get your hands dirty, or even touch any moving parts. The Rapid Priming and Easy Tube Load functions take care of that for you. No trapped fingers, and no need to come into contact with the fluid being pumped.

### Rapid Priming

The Verderflex Aura includes a rapid priming function used to prime the dosing circuit as long as the PRIME function is held down.

- Simplifying dosing chemical container changeover
- Reduces dosing system downtime

### Easy Tube Loading

Tube loading could not be simpler with the Verderflex Aura's Easy Tube Load Facility. Just following these four simple steps means you get the right results first time and every time.

## Tube selection

VERDER has a wide variety of tubes which offer the ideal choice for every application. In our range we offer several standard materials with various diameters and thicknesses. Special tubes are available on request.

The following criteria are important when selecting a tube:

- Chemical resistance
- Food grade quality
- Tube life
- Physical compatibility
- Sterilisation capability

The following tube materials are available:

- Verderprene - General purpose
- Silicone - High temperature fluids

For more information on our range of tubing please refer to our tube selection guide or visit: [www.verderflex.com](http://www.verderflex.com)

### Tube Selection

Tube ID x Tube WT (mm)	Flow (l/hr)	Flow (ml/min)	Flow US GPM	Max Pressure (Bar)	Max Pressure (PSI)
1.6 x 1.6	0.70	11.8	0.003	4.0	58.0
3.2 x 1.6	2.56	42.6	0.01	2.5	36.3
4.8 x 1.6	4.82	80.3	0.02	1.8	26.0

- Performance is based on 50Hz power supply giving 50 rpm pump speed  
- When run on 60Hz power, flows will be 20% higher as pump will run at 60 rpm

