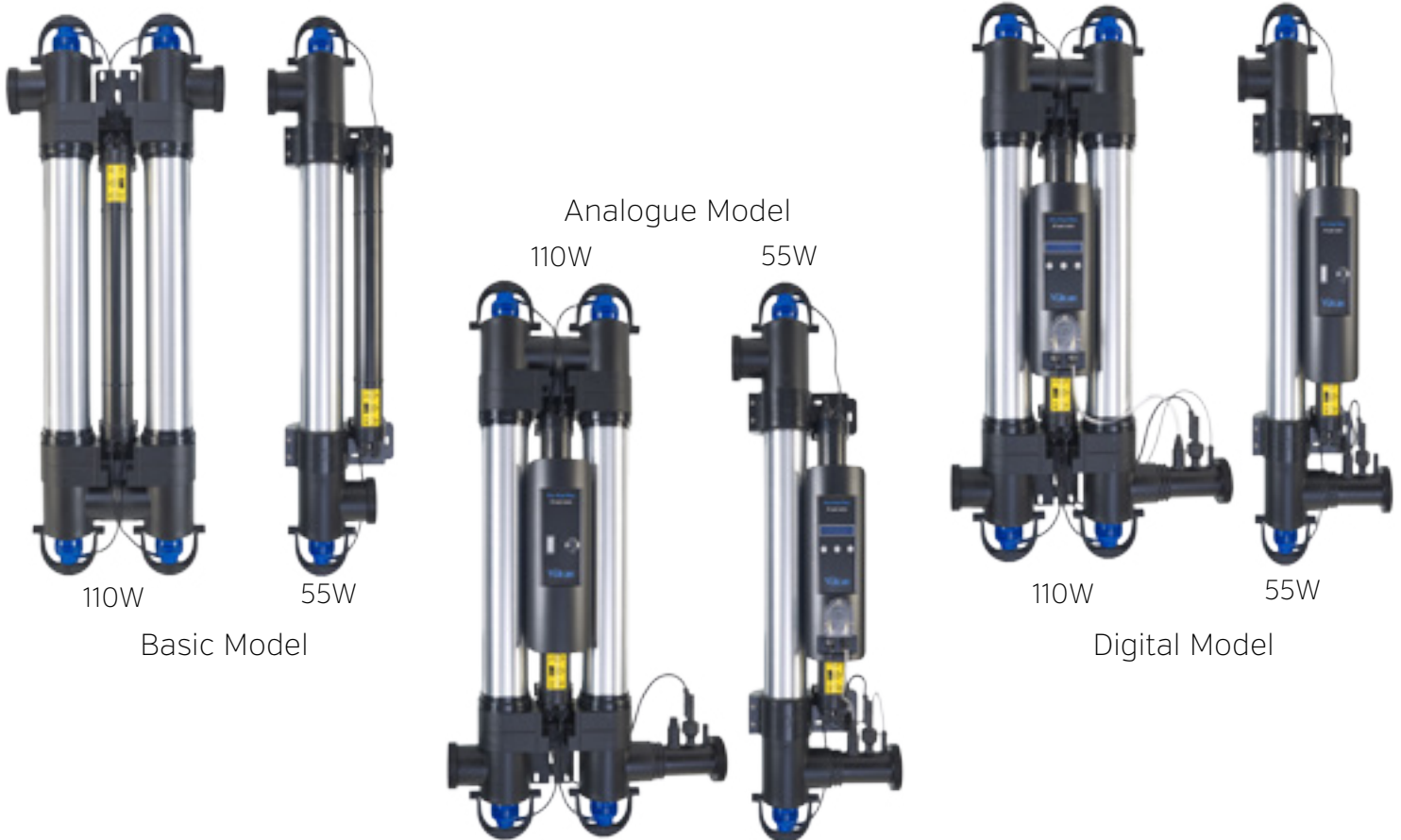


# Vulcan Pro Pool *PLUS*



## Features & Benefits

- Two power options available:
  - 55 Watts for flow rates up to 12m<sup>3</sup>/hour [50m<sup>3</sup> pool volume]
  - 110 Watts for flow rates up to 24m<sup>3</sup>/hour [100m<sup>3</sup> pool volume]
- Polished titanium reaction chamber produces Hydroxyl Radical oxidisers
- Destroys micro-organisms, such as bacteria, viruses, and pathogens, and removes chloramine, drastically reducing odours and irritations whilst improving the quality and clarity of the water and providing a safe swimming environment
- Costs no more to run than a common light bulb
- Salt and sea water compatible
- Reduces chemical requirement
- Choice of analogue or digital control
  - Optional peristaltic dosing pump [digital version]
  - 9000 hour lamp life with optional lamp life indicator [analogue version]

## Overview

*The Pro Pool PLUS utilises all of the well known and proven benefits of traditional UV water treatment and takes it to the next level by harnessing the power of hydroxyl radicals (HO) to oxidise pool water.*

Traditional UV systems are effective at removing chloramines, however they do not possess the power to oxidise; instead the UV light attacks the DNA of the contaminant and prevents it from further reproducing, but will remain in the water as effectively 'neutralised'. The Pro Pool PLUS advances the benefits of UV by naturally creating powerful hydroxyl radicals that have the ability to sanitise your pool water by actually oxidising/destroying harmful viruses, bacteria and pathogens in the pool water.

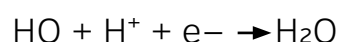
Design to be easily installed into your existing set-up the Pro Pool PLUS is completely safe and complimentary to any existing treatment method, including chlorine, bromine, salt water electrolysis or hydrogen peroxide. The powerful Pro Pool PLUS typically provides an increased efficiency of 45% when compared to traditional UV alone.

Costing no more to run than a common light bulb, the Pro Pool PLUS is the method of choice for those that favour UV treatment but are looking to take water sanitisation to the next level.

## The Science

The Pro Pool PLUS is designed with a narrow chamber and long flow path in order to maximise exposure to the UV and increase the contact time. The polished titanium reaction chamber increases the intensity of the UV light, further increasing the dose and power of UV sterilisation. As the polished reaction chamber is built using pure titanium, all of the problems of corrosion associated with stainless steel units are avoided.

When the UV light strikes the polished titanium chamber, powerful hydroxyl radicals are naturally produced. Hydroxyl Radicals are essentially a water molecule with a Hydrogen atom removed, and a highly reactive unpaired electron, forming holes in the valence band of the atom. The exceptionally mobile molecules that are generated within the reaction chamber are highly volatile and rapidly oxidise pollutants/bacteria/pathogens present in the water. Once the Hydroxyl Radicals have reacted and oxidised with a pollutant it converts back into water.



Hydroxyl Radicals can be produced in many ways, however instead of adding more chemicals or gases that are potentially damaging to health, the creation within the Pro Pool PLUS reaction chamber requires no chemicals and is non-sacrificial; the titanium reflector is not consumed during the reaction, with the benefit that it is not only safe but also long lasting.

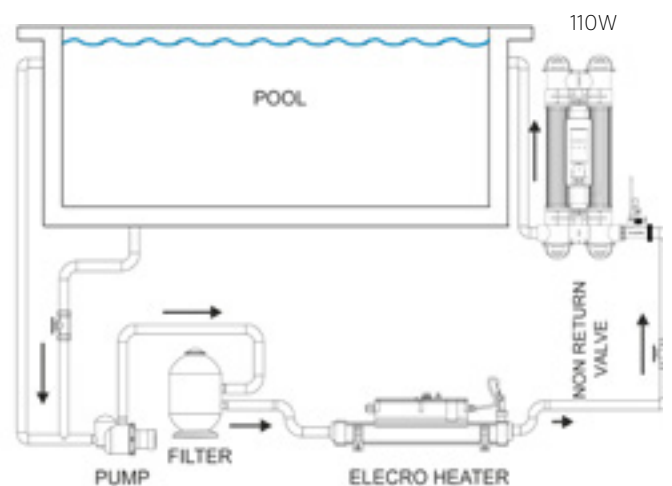
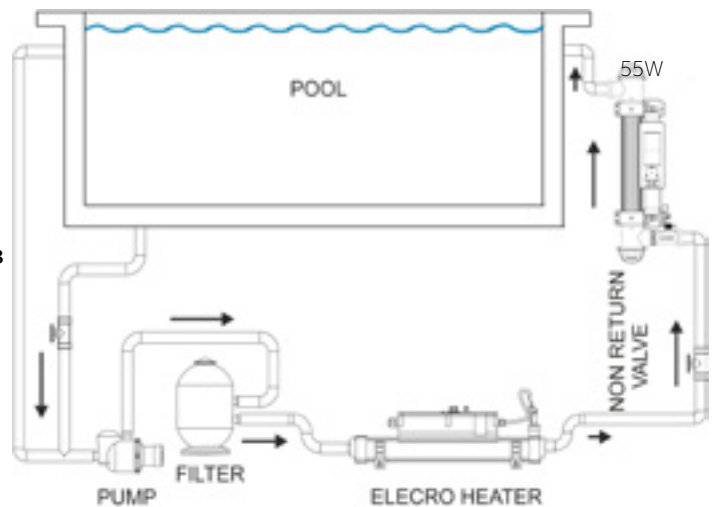
# Installation & Size Guide

The Pro Pool PLUS can be easily installed into your new or existing pool system.

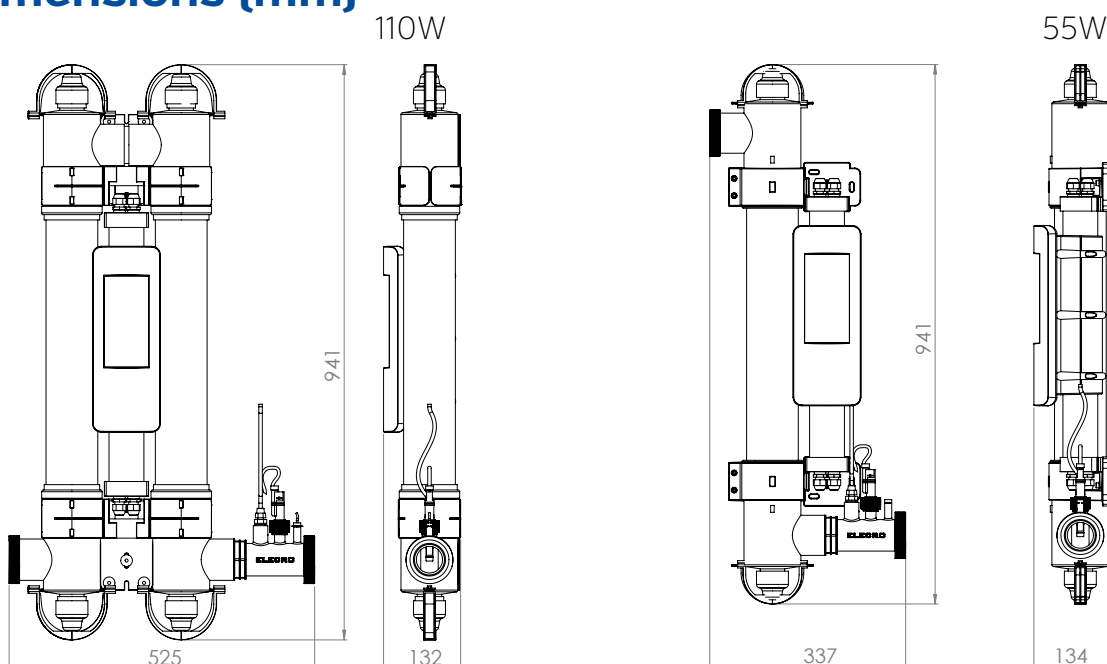
Compared to other products in the market place, Pro Pool PLUS offers superior performance at reduced levels of power consumption. On this basis we recommend:

- Single tube [55W input] for up to 50m<sup>3</sup> swimming pool volume
- Double tube [110W input] for up to 100m<sup>3</sup> swimming pool volume

Installation is quick and easy and can be fitted directly into your new or existing system, using the pre-assembled threaded unions. The analogue digital Pro Pool PLUS is integrated with all controls and flow switch, along with the option of a peristaltic pump and temperature probe ensuring accurate dosing. Giving the pool owner peace of mind that they are choosing a natural, effective sanitiser that once installed requires no further adjustments.



## Dimensions (mm)



# Technical Specification

Voltage and frequency	220V ~ 240V 50/60Hz or 110V ~ 120V 50/60Hz
Max. operating pressure	3 bar
Max. power consumption	Single Tube: 64W   Double Tube: 128W
Lamp	Low pressure/High output
Lamp life	9,000 hours
Minimum flow rate	4,000 litres per hour [4m <sup>3</sup> /h]
Maximum flow rate	Single Tube: 12,000 litres per hour [12m <sup>3</sup> /h] Double Tube: 24,000 litres per hour [24m <sup>3</sup> /h]
Maximum pool size	Single Tube: 24,000 litres [50m <sup>3</sup> ] Double Tube: 100,000 litres [100m <sup>3</sup> ]
IP rating	IP65
Water connections	2" / 63mm stepped + reducers 1½" / 50mm
Dosing rate	Exceeds the equivalent of 30mj/cm <sup>2</sup> at maximum flow rate
Salt water	100% sea water safe
Approvals	CE approved
Oxidisation process	UV + Hydroxyl Radicals [HO]

## Intelligent Peristaltic Dosing Pump Option:

The Pro Pool PLUS has the option of being supplied complete with integral intelligent peristaltic dosing pump which is pre-programmed to dose Hydrogen Peroxide [Active Oxygen]. Featuring:

- **Temperature Sensor:** The water temperature is monitored and the dosing amount is automatically adjusted according to the water temperature. No ongoing adjustments required.
- **Flow switch:** The dosing will only be started when there is a consistent water flow being delivered to the unit.
- **Automated:** Dosing is set to take place at a desired time every day.
- **Digital lamp life countdown timer & Neon indicator:** Green = OK, Amber = under 500 hours remaining, Red = Lamp change required.
- **Lamp** will be automatically switch off during the dosing period and for 30 minutes immediately after [ensuring that the Hydrogen Peroxide is entering the pool and not consumed within the reaction chamber].

## Model Options

Product Code	Lamp Output	Max Pool Volume	Features
V-PP-55	55W	50m <sup>3</sup>	Basic model without lamp life indicator, dosing pump or flow switch
V-PP-110	110W	100m <sup>3</sup>	Basic model without lamp life indicator, dosing pump or flow switch
V-PP2-55	55W	50m <sup>3</sup>	Analogue lamp life indicator, reset switch and flow switch
V-PP2-110	110W	100m <sup>3</sup>	Analogue lamp life indicator, reset switch and flow switch
V-PP3-55	55W	50m <sup>3</sup>	Digital lamp life countdown with intelligent dosing pump and flow switch
V-PP3-110	110W	100m <sup>3</sup>	Digital lamp life countdown with intelligent dosing pump and flow switch

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