

# PURASHIELD<sup>®</sup>

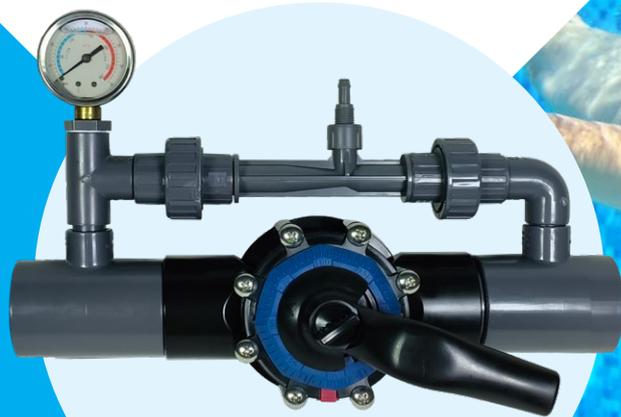
## UV & OZONE SANITISERS

### The next level of swimming pool protection.

The PuraShield<sup>®</sup> range of ultra-violet sanitisers from Pentair takes pool protection to the next level. Harnessing the power of ultraviolet UV light and the optional ozone's proven oxidation and sanitation capabilities, the new PuraShield<sup>®</sup> UV and PuraShield<sup>®</sup> UV +Ozone sanitisers are the best complementary solution to your swimming pool's sanitation system.

#### Key features:

-  Neutralises harmful bacteria & pathogens instantly
-  Reduces chlorine usage by up to 50%
-  Commercial-grade sterilisation power



*Optional UV+Ozone unit*



# Keep uninvited guests out of your pool.

You want your backyard oasis to be relaxing, enjoyable and protected. Keeping your pool water sparkling clean and virtually bacteria free is your top priority, and PuraShield® is the proven way to do it—without producing harmful byproducts. With the power of UV light and ozone\* it is possible to neutralise 99.9% of bacteria that may help reduce chlorine usage by up to 50% for less hassle and reduced odours.



PuraShield® provides instant protection from many harmful bacteria and chlorine resistant pathogens providing cleaner and safer pool water everyone can enjoy!



Cryptosporidium is a leading cause of waterborne illness and is highly resistant to chlorine disinfection.



Giardia is a microscopic parasite that causes severe intestinal discomfort.



E.coli bacteria can cause urinary tract infections, respiratory illness and other health issues.

99.9%  
EFFECTIVE

## PURASHIELD® UV

The new PuraShield® UV from Pentair harnesses the power of ultraviolet light to assist with the elimination of organic matter like bacteria and viruses that lead to the reduction in chloramines and the amount of chlorine needed to maintain clean pool water.

### KEY FEATURES



Digital countdown timer and lifetime meter



Integrated flow switch with automatic start



Glow-through sight glass to check system operation



Multi-way connectors

- Mirror-polished stainless steel (AISI-316L) UV chamber increases efficiency up to 35%

- Long-life UV-C lamps

Available in two models:  
PSUV-75  
and  
PSUV-130

## PURASHIELD® UV +OZONE

The PuraShield® UV +Ozone system takes sanitation to the next level with the inclusion of an ozone unit. Combining ozone's proven oxidation and sanitising power, this can produce the clearest pool water possible.

### ADDITIONAL FEATURES

In addition to all the PuraShield® UV features, the PuraShield® UV +Ozone combination system offers:

- ✓ A much powerful oxidation formula
- ✓ Dual output lamp that produces 254nm for germicidal treatment and 185nm for ozone production
- ✓ Adjustable by-pass venturi valve to efficiently regulate ozone addition
- ✓ Check valve for one way flow of ozone

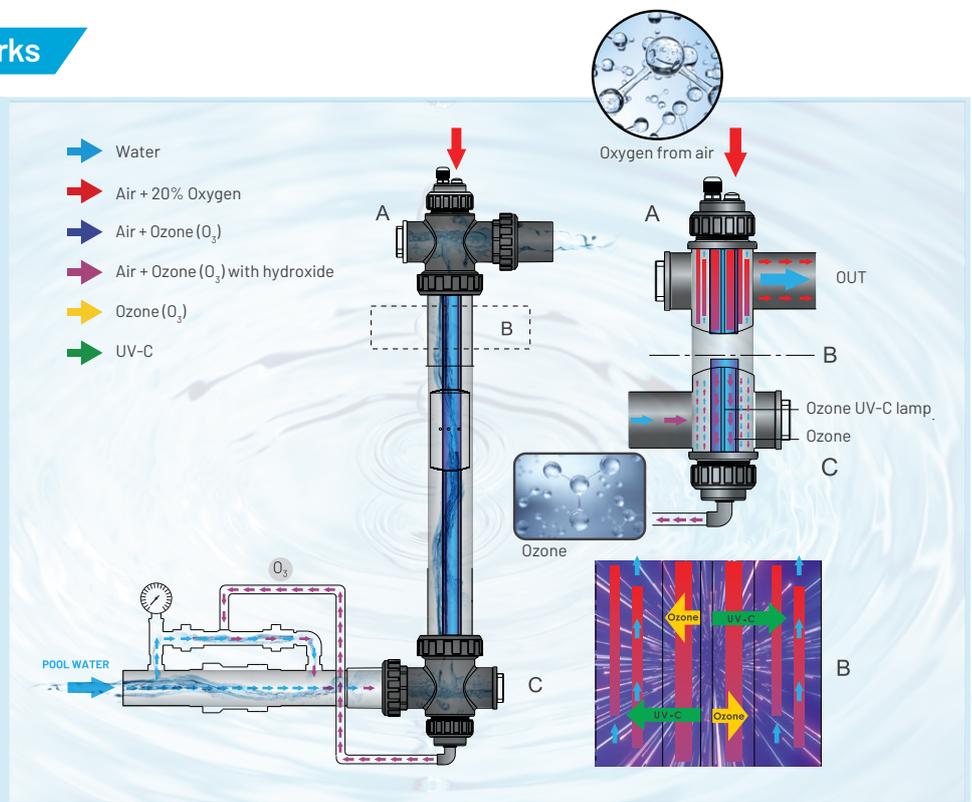
- UV +Ozone unit



## How PuraShield® UV +Ozone Works

PuraShield® UV & +Ozone systems contain a special high intensity Ultraviolet lamp which emits two UV wavelengths: 254nm and 185nm. While the 254nm wave deactivates the DNA of bacteria, viruses and pathogens, the 185nm wave converts oxygen from the air into ozone.

The ozone produced is introduced into the water stream by venturi effect. The Ozone and the ultraviolet light will work together in a powerful combination that destroys bacteria, viruses and pathogens, and can also break down urine, sweat, cosmetics and sun cream particles without leaving any harmful by-products.



## Technical Specifications

MODEL	PuraShield® UV +Ozone	PuraShield® UV	PuraShield® UV
PART NUMBER	PSUV-87-03	PSUV-75	PSUV-130
Main Working Features	UV +Ozone	UV	UV
Power Supply	220-240V, 50/60Hz	220-240V, 50/60Hz	220-240V, 50/60Hz
Output Power	87W	75W	130W
Low Pressure Lamp Wavelength#	254nm & 185nm (O <sub>3</sub> )	254nm	254nm (Amalgam)
Maximum Working Pressure	300kPa	300kPa	300kPa
Maximum Flow Rate (40mJ/cm2)*	175	200	275
Maximum Flow Rate (60mJ/cm2)**	117	133	183
Connection Size	50mm (AS/NZS)	40mm / 50mm (AS/NZS)	40mm / 50mm (AS/NZS)
Lamp Lifetime (hours)	10,000	9,000	12,000
IP Protection	IP54	IP54	IP54
Maximum Ozone Production	0.6g/hr	N/A	N/A

\* 40mJ/cm2 - Inactivation of *Cryptosporidium* and other chlorine tolerant pathogens.

\*\* 60mJ/cm2 - Additional breakdown of Chloramines for great improved air and water quality.

#UV working wavelength



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