

## Introducing Hallett Low Alarming Validated UV Comply with the Acceptable Solutions with Ease

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Specialists in the design and supply of treatment options for small and very small water supplies. Winning Solutions, Quality Brands



# About Us

#### UV Pure Technologies - The Safe Water, Always® company

The team at UV Pure Technologies started in the industry with wet feet and dirty hands. Actively involved designing, installing, servicing and fault finding traditional 'light in a pipe' UV's got us thinking – there has to be a better way!

The issues with traditional validated UVs are well known.

Spurious alarming can occur for a number of reasons so the ability to reduce these occurrences and provide tools to diagnose the cause quickly was front of mind. You don't always have to solve every problem, sometimes its easier to go round them.

And so, the Fridge-Door design, lamp and sensor in air, Crossfire technology, UV Pure Disinfection System was born

Why do it any other way?

# *"UV Pure technologies are proud to be associated with White International as our partner in the New Zealand and Australian market.*

We value the positive and proactive approach White International take to meeting customer needs and understanding fully the capability of our products"

### White International

White International specialise in the design and supply of treatment options for small and very small water supplies. The Hallett self-cleaning, low-alarming Validated UV units are central to ensuring an uninterrupted supply of safe drinking water

Winning Solutions, Quality Brands

# PURE®

Powerful UV disinfection for difficult water

> Smart technology. High performance. Easy maintenance.

Up to Up to gpm per unit, multiplex systems available

35% minimum UV transmittance

uvpure.com



Count on Hallett for any application



Safe water, always.™

# UV PURE®

# Advanced UV disinfection for challenging water

UV Pure Technologies is a manufacturer of advanced ultraviolet water disinfection systems for commercial, industrial, municipal, residential, and decentralized applications, with over 18,000 installations worldwide in:

- COMMERCIAL
- SYSTEM INTEGRATORS
- AGRI-FOOD
- AGRICULTURE

- MUNICIPAL
- PARKS & RECREATION
- HEALTHCARE
- **RESIDENTIAL**
- TRANSPORTATION





Potable

Wastewater





UV Pure<sup>™</sup> systems feature patented Crossfire Technology<sup>™</sup> with an innovative dual-lamp elliptical reflector design, self-cleaning quartz sleeve, and smart sensors for on-board diagnostics and remote monitoring capabilities. Crossfire Technology was selected for water disinfection on the new Boeing 787 Dreamliner, and is trusted by water industry leaders including SUEZ (formerly GE Water), Evoqua (formerly Siemens Water), the Los Angeles Department of Water and Power, Veolia, and CH2M.

> UV Pure has earned an Artemis Top 50 Clean Tech Company award, Going Green Global Top 200 award, two Frost & Sullivan Best Practices Awards, and a Canadian Drinking Water Association award for innovation.

# Hallett 。

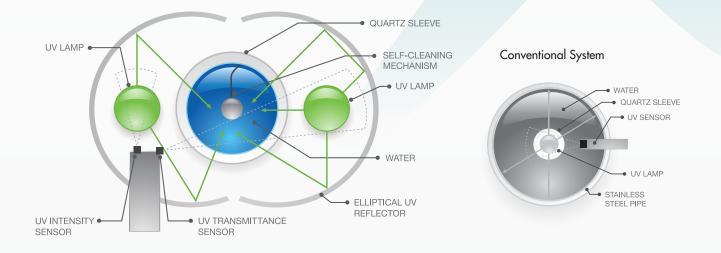
The company's range of Hallett<sup>™</sup> products are proven for use in potable, wastewater, reuse, and rainwater disinfection systems for flows of up to 3,800 cubic metres per day (1 million gallons per day).

Hallett systems are certified to NSF/ANSI 55 Class A, NSF/ANSI 61 & 372, with performance validation to EPA & NWRI protocols for a wide range of operating conditions including low UV transmittance water. Non-certified Hallett systems are also available to achieve the same performance for applications that do not require formal certification.

Powered by

ROSS FIRE<sup>®</sup>

# Crossfire Technology™ targets pathogens from every angle - 360 degrees



- Self-cleaning system prevents quartz fouling
- Reliable high performance in low UVT conditions
- Safe, easy lamp changes



Smart sensors for real-time monitoring

UV Pure's patented Crossfire Technology incorporates elliptical reflectors that redirect light energy from 360 degrees to overcome shadowing and deliver a sterilizing UV dose to harmful pathogens.

Dual smart UV sensors in every Hallett system continually monitor lamp output and water quality to ensure the highest level of disinfection is consistently achieved. The smart sensors practically eliminate nuisance alarms and make troubleshooting simple when the system is out of compliance.



Effective disinfection for up to 10x more difficult water with UV transmittance from 35-95%, hardness up to 855 mg/L, and iron up to 3 mg/

<sub>E°</sub> Safe water, always.™

## Meet the New Hallett<sup>™</sup> Questions & Answers



Questions	Answers					
What's new <b>about</b> UV Pure's <b>Hallett products</b> ?	UV Pure has redesigned its next generation Hallett product series with all new features for even better reliability and operability. All of UV Pure's products are powered by Crossfire Technology™ for industry-leading disinfection performance, even for challenging water quality conditions.					
There are <b>four new Hallett</b> <b>product lines</b> to meet a wide range of UV water disinfection needs:	<ul> <li>Potable  Wastewater  Reuse  NC</li> <li>Hallett P for potable and drinking water applications</li> <li>Hallett R for reuse (gray water and rainwater) applications</li> <li>Hallett W for wastewater applications</li> <li>Hallett NC for applications that do not require product certification (formerly Upstream<sup>TM</sup>)</li> </ul>					
What <b>sizes</b> are available for the new Hallett?	There are <b>three model sizes</b> for the new Hallett product lines that handle flows from 10-100 US gpm and UV transmittance (UVT) as low as 35%. The sizes are based on the nominal UV lamp length (in millimeters) for each unit: • Hallett 500 • Hallett 750 • Hallett 1000 – all new					
What is the <b>new</b> Hallett 1000?	New Hallett 1000 New Hallett 1000 New Hallett 1000 New Hallett 1000 New Hallett 1000 New Hallett 1000 New Hallett 1000 is our largest model yet with a 2-inch flange connection for flows up to 100 US gpm. It is equipped with low-pressure high-output (LPHO) amalgam lamps that can be cycled 6-12 times per day, plus quadruple smart UV sensors. Use it for any application including potable water, wastewater, reuse water or rainwater.					
What product	The new Hallett lineup includes models that will have ANSI/NSF certifications and third-party performance validation in accordance with the US EPA UV Disinfection Guidance Manual (UVDGM)					

What product certifications and validations are available for the new Hallett?

The new Hallett lineup includes models that will have ANSI/NSF certifications and third-party performance validation in accordance with the US EPA UV Disinfection Guidance Manual (UVDGM) and NWRI UV Disinfection Guidelines for Drinking Water and Water Reuse (all certifications and validations currently pending):

- UL 979 and CSA C22.2 No.68-09 all Hallett models
- NSF/ANSI 55 Class A Hallett PN Series
- NSF/ANSI 61 and NSF/ANSI 372 all Hallett models, excluding Hallett 400
- EPA UVDGM validation Hallett 1000
- NWRI validation Hallett 1000

What new <b>features</b> does							
the next generation							
Hallett have?							

Hallett

What has **NOT changed** in the new Hallett systems?

All new Hallett models are equipped with:

- Color touchscreen interface
- Improved dual UV sensor array design with quad-sensor models available
- Better temperature management with built-in purge valve and available lamp heaters
- Optional 4-20 mA output with MODBUS connectivity
- Remote start capability
- Two dry contacts for warning and alarm signals
- Better message history that stores the last 99 messages with timestamp
- USB plug-in port
- Built-in surge protection

New Hallett systems are still powered by UV Pure's patented Crossfire Technology™ including:

- Automatic self-cleaning wipers and built-in purging that prevent fouling of the quartz sleeve by mineral scaling and biofilm, making Hallett up to 10 times more effective in difficult water applications than conventional UV systems
- Dual air-mounted lamps with forced air cooling that provide better UV chamber temperature control, helping to eliminate false lamp alarms
- Elliptical reflector design that captures and redirects UV energy from 360 degrees to minimize UV shadowing and prevent live transfer of bacteria and microorganisms
- Dual UV sensor array that provides real-time monitoring of UV lamp intensity, UV dose and net UVT while enabling superior on-board diagnostics for troubleshooting

All Hallett systems are still non-contact, meaning the operator is not exposed to coming in contact with contaminated water when performing routine maintenance like quartz inspections and lamp changes. In fact, the new Hallett design makes maintenance even easier.

With its small footprint and simple plug-and-play design, Hallett is quick to install and easy to start up, even in tight spaces.



What are the warranty terms for new Hallett systems?

We continue to offer one of the industry's leading warranty packages for UV Pure systems and parts:

- 12 months on sensors, temperature probes, and valves
- 12 months on LPHO lamps
- 16 months on LPHO amalgam lamps
- 36 months on electrical components, quartz sleeve, and reflectors
- 60 months for structural, hardware, and mechanical components

Are engineering drawings available for the new Hallett systems? Yes, engineering drawings are available for single and multi-unit Hallett systems. For help with sizing or drawings, please contact your UV Pure sales professional or send a request to **info@uvpure.com**.

# PURE<sup>®</sup>

**Potable Water Applications** 

### **Operating Range**

Flow (single unit) UV dose UV Transmittance [UVT] (water) Hardness (water) Iron (water) Temperature (air and water) Water pressure Relative humidity (air)

## Electrical/Instrumentation

Power consumption (nominal) Certifications UV lamps Lamp life (typical) Lamp cycles (recommended) Sensors Dry contacts Interface Alarming Remote start/stop Onboard diagnostics 4-20mA Output & Modbus

## Physical

Dimensions  $(H \times W \times D)$ Weight (dry) Weight (wet) Wetted parts Body materials Body configuration Inlet/outlet ports Ingress Protection rating Multiple units Warranty

196 W UL 979 Dual LPHO - air mounted 9,000 hours Maximum 2 per 24 hours Dual UV - calibrated to NIST standards Built-in - 2 provided (warning and alarm) Colour LCD resistive touchscreen display Indicator light and audible alarms Built-in Built-in Optional

Up to 16.5 US gpm (62.5 Lpm)

Maximum 855 mg/L (50 gpg)

Maximum 3 mg/L (3 ppm)

5 - 100 psig (34 - 690 kPa)

34 - 104°F (1 - 40°C)

40 ml/cm<sup>2</sup>

Minimum 75% UVT

Maximum 70%

36.5 x 9.6 x 8.6 in (926 x 244 x 218 mm) 32 lb (14.6 kg) 36 lb (16.3 kg) Meets NSF/ANSI 61 & NSF/ANSI 372 for water up to 73°F (23°C) Anodized aluminum and 316 Stainless Steel Double door with side hinges 1" MNPT Stainless Steel, optional - Stainless Steel hose IP 51, optional - IP 66 for NEMA cabinet systems Multiplex manifold and cabinets available 5-year limited warranty for structural, hardware and mechanical components; 3-year limited warranty on electrical components

and quartz sleeves; 12-month limited warranty on bulbs; and 1-year limited warranty on sensor probes

## Model Validation protocol

#### Features

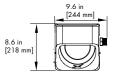
Quartz sleeve cleaning Wiper position switch Purge valve Cooling Flow restrictor Shut-off valve

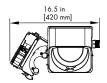
#### Hallett 500PN

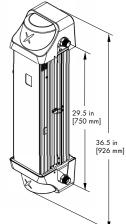
NSF/ANSI 55 CLASS A by NSF International (NSE)

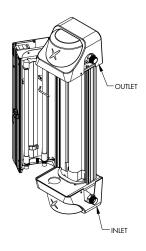
www.uvpure.com

Built-in - automatic mechanical wiper Built-in - forced air Optional - automatic solenoid









## UV P U R E®

Potable Water Applications

**Operating Range** 

Flow (single unit) UV dose UV Transmittance [UVT] (water) Hardness (water) Iron (water) Temperature (air and water) Water pressure Relative humidity (air)

## **Electrical/Instrumentation**

Power consumption (nominal) Certifications UV lamps Lamp life (typical) Lamp cycles (recommended) Sensors Dry contacts Interface Alarming Remote start/stop Onboard diagnostics 4-20mA Output & Modbus

## Physical

Dimensions (H x W x D) Weight (dry) Weight (wet) Wetted parts Body materials Body configuration Inlet/outlet ports Ingress Protection rating Multiple units Warranty 222 W UL 979 Dual LPHO - air mounted 9,000 hours Maximum 2 per 24 hours Dual UV - calibrated to NIST standards Built-in - 2 provided (warning and alarm) Colour LCD resistive touchscreen display Indicator light and audible alarms Built-in Built-in Optional

Up to 27.4 US gpm (104 Lpm)

Maximum 855 mg/L (50 gpg)

Maximum 3 mg/L (3 ppm)

5 - 100 psig (34 - 690 kPa)

34 - 104°F (1 - 40°C)

40 ml/cm<sup>2</sup>

Minimum 80% UVT

Maximum 70%

40.4 x 9.6 x 8.6 in (1026 x 244 x 218 mm) 34 lb (15.5 kg) 38 lb (17.2 kg) Meets NSF/ANSI 61 & NSF/ANSI 372 for water up to 73°F (23°C) Anodized aluminum and 316 Stainless Steel Double door with side hinges 1" MNPT Stainless Steel, optional - Stainless Steel hose IP 51, optional - IP 66 for NEMA cabinet systems Multiplex manifold and cabinets available 5-year limited warranty for structural, hardware and mechanical components; 3-year limited warranty on electrical components and quartz sleeves; 12-month limited warranty on bulbs; and 1-year limited warranty on sensor probes

Model

Features

Purge valve

Flow restrictor

Shut-off valve

Cooling

Validation protocol

Quartz sleeve cleaning

Wiper position switch

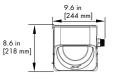
Call Us: 1-888-407-9997

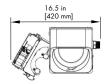
#### www.uvpure.com

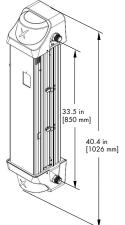
Hallett 750PN NSF/ANSI 55 CLASS A (NSF) by NSF International

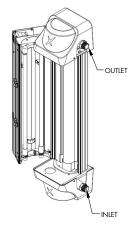
Built-in - automatic mechanical wiper Built-in - forced air

Optional - automatic solenoid









# PURE<sup>®</sup>

**Potable Water Applications** 

### **Operating Range**

Flow (single unit)\* UV dose UV Transimttance [UVT] (water) Hardness (water) Iron (water) Temperature (air and water) Water pressure Relative humidity (air)

## Electrical/Instrumentation

Power consumption (nominal) Certifications UV lamps Lamp life (typical) Lamp cycles (recommended) Sensors Dry contacts Interface Alarming Remote start/stop Onboard diagnostics 4-20mA Output & Modbus

## Physical

Dimensions  $(H \times W \times D)$ Weight (dry) Weight (wet) Wetted parts Body materials Body configuration Inlet/outlet ports Ingress Protection rating Multiple units Warranty

403 W UL 979 Dual amalgam - air mounted 12,000 hours Maximum 6 to 12 cycling per 24 hours Quad UV - calibrated to NIST standards Built-in - 2 provided (warning and alarm) Colour LCD resistive touchscreen display Indicator light and audible alarms Built-in Built-in Optional

Up to 100 US gpm (378 Lpm)

Maximum 855 mg/L (50 gpg)

Maximum 3 mg/L (3 ppm)

5 - 100 psig (34 - 690 kPa)

34 - 104°F (1 - 40°C)

 $16 - 200 \text{ m}/\text{cm}^2$ 

50 - 95% UVT

Maximum 70%

55.8 x 11.5 x 8.6 in (1418 x 291 x 218 mm) 52 lb (23.5 kg) 58.3 lb (26.4 kg) Meets NSF/ANSI 61 & NSF/ANSI 372 Anodized aluminum and 316 Stainless Steel Double door with side hinges 2" MNPT Stainless Steel, optional - Stainless Steel hose IP 51, optional - IP 66 for NEMA cabinet systems Multiplex manifold and cabinets available 5-year limited warranty for structural, hardware and mechanical components; 3-year limited warranty on electrical components and guartz sleeves; 16-month limited warranty on bulbs; and 1-year limited warranty on sensor probes

#### Model Validation protocol

#### Features

Quartz sleeve cleaning Wiper position switch Purge valve Cooling Flow restrictor Shut-off valve

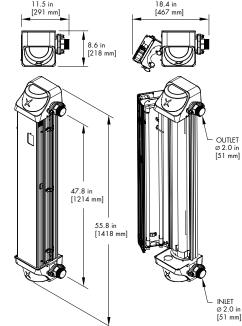
Hallett 1000P

**US EPA UVDGM** 

Built-in - automatic mechanical wiper

www.uvpure.com

Built-in - forced air Optional - automatic solenoid



Call Us: 1-888-407-9997

\*Maximum flow for single unit is 100 gpm (378 L/min). Multiplex manifold and cabinet systems available for flows up to 1 MGD (3,800 m3/day).



# Hallett Models & Specifications

Product Line	Hallett P	Hallett W	Hallett R	Hallett NC $+ \bigcirc^+$		
Applications	Potable	Wastewater	Reuse & Rainwater	Any (formerly Upstream		
Hallett Models	1000, 750, 500, 750PN, 500PN	1000, 750, 500	1000, 750, 500	1000, 750, 500, 400		
	NSF/ANSI 61 & 372 – all models, except 400 model					
Certifications & Validations	NSF/ANSI 55 Class A (PN models only)	IUVA wastewater validated (1000 model only)	NWRI reuse validated (1000 model only)	Third-party performance validated		
	EPA UVDGM validated – 1000 model only					

Download UV Pure's Technical Data Sheets at <u>uvpure.com/downloads/</u>

The Hallett 500PN and 750PN must be installed indoors on a wall in a dry location. The unit should be plumbed in downstream of any pretreatment devices but upstream of distribution plumbing. The unit incorporates both audible and visual alarms to indicate system status and an optional normally closed solenoid valve is available to shut off the water supply in the event of a system fault.

The automatic quartz cleaning feature is engineered to eliminate the periodic maintenance required by conventional UV systems.

The UV lamps require replacement after 12 months of operation.



System Tested and Certified by NSF International against NSF/ANSI Standard 55 for Disinfection Performance, Class A.

This Class A system conforms to NSF/ANSI 55 for the disinfection of microbiologically contaminated water that meets all other public health standards. This system is not intended to convert wastewater or raw sewage to drinking water. The system is intended to be installed on visually clear water.

NSF/ANSI 55 defines wastewater to include human and/or animal body waste, toilet paper, and any other material intended to be deposited in a receptacle designed to receive urine and/or feces (blackwaste); and other waste materials deposited inplumbing fixtures (greywaste).

If this system is used for the treatment of untreated surface waters or ground water under the direct influence of surface water, a device found to be in conformance for cyst reduction under the appropriate NSF/ANSI Standard shall be installed upstream of the system.

Manufactured by: UV Pure Technologies Inc.

State 1997 States

All replacement parts may be purchased through White International



# **Current Installations**

#### **Generation 3**

Parks Canada / Arcadis – Canada wide (2019) – Potable water

UV Pure is pleased to announce our partnership with Parks Canada on their Trent Severn UV upgrade project through UV Pure Channel partner in Ontario. Parks Canada is replacing conventional UV systems on more than 30 park sites with UV Pure third Generation of UV's. Parks Canada becomes the first government agency to incorporate our latest UV technology in their parks and campgrounds.

#### Generation 1 & 2

Memorial Sloan Kettering Cancer Center - New York City, NY - USA (2019) - Potable Water

UV Pure is proud to announce our recent installations at Memorial Sloan Kettering Cancer Center, NY. MSKCC is the largest and oldest private cancer center in the world. This shipment is part of comprehensive disinfection package offered by UV Pure channel partner in the New York region. UV Pure supplied 2 large plug and play multiplex UV disinfections modules to the facility and allowing the Cancer center to meet it's extremely high water quality objectives.





## **Case Studies**

Potable Water



- Heriot Bay Quadra Island, BC Canada (2015)
   The automatic self-cleaning mechanism in the UV Pure Hallett system enabled Heriot Bay Inn to eliminate the alarms, iron fouling and frequent cleanings that were often experienced with a conventional light-in-a-pipe UV unit.
- Tallahassee VA Outpatient Clinic Tallahassee, Florida USA (2016)
   US Veterans Administration clinic adds UV Pure systems to protect patients from Legionella and chlorine-resistant pathogens.
- Progresar ESP Valle del Rio Teusaca, Cundinamarca Colombia (2015) Colombian community responds to stronger water regulations with UV Pure systems.
- Parkbridge Sama Community Havelock, ON Canada (2004) Potable water No fouling to Hallett systems after more than a decade of hard water treatment at a recreational community.

Rainwater



- GO Transit Bus Service and Storage Facility Hamilton, ON Canada (2016) UV Pure systems provide chemical-free disinfection of harvested rainwater for bus wash station.
- Algoma Orchards Newcastle, ON Canada (2017) Algoma Orchards recycles process water and gains efficiency.

Wastewater



- Cataumet Wastewater treatment plant – Cataumet, MA – USA (2017) UV Pure Hallett systems team with decentralized MBBR to protect sensitive marine environment.

Read more about UV Pure's case studies at <u>uvpure.com/case-studies/</u>

## Product Line Feature comparison

Effective August 1, 2019

Feature	Hallett 1 <sup>st</sup> Generation	Hallett Upstream 2 <sup>nd</sup> Generation	Hallett 3 <sup>rd</sup> Generation	Hallett 3 <sup>rd</sup> Generation	Hallett 3 <sup>rd</sup> Generation
	H30, H13	H15xs, NC series	H400 series	H500, H750 series	H1000 series
Crossfire Technology	Built in	Built in	Built in	Built in	Built in
>> Eliptical Reflectors, >> 360° Disinfection	Built in	Built in	Built in	Built in	Built in
>> Dual Lamps, >> Multiple Sensors	Built in	Built in	Built in	Built in	Built in
>> Self cleaning mechanism	Built in	Built in	Built in	Built in	Built in
User Interface	Single button	Four mechanical buttons	Touch screen Color	Touch screen Color	Touch screen Color
Operational alarms	Dual visual - audible	Dual visual - audible	Dual visual - audible	Dual visual - audible	Dual visual - audible
Display - Liquid Crystal (LCD)	Optional	Built in	Touch screen Color	Touch screen Color	Touch screen Color
Communications	4-20 mA output	NA	NA	4-20 mA output Modbus	4-20 mA output Modbus
Dry Contact (s)	Built in	Built in	<ol> <li>Run/Treating</li> <li>Warning</li> </ol>	<ol> <li>Run/Treating</li> <li>Warning</li> </ol>	<ol> <li>Run/Treating</li> <li>Warning</li> </ol>
Remote Start/Stop	NA	NA	Built in	Built in	Built in
Built-in Surge Protection	Optional	Optional	Built in	Built in	Built in
Message History	NA	Last 50 messages	Last 99 messages	Last 99 messages	Last 99 messages
Data logging - local	NA	NA	Optional	Optional	Optional
Flow range (@ 40 mJ/cm <sup>2</sup> , 95% UVT)	up to 51 USgpm 193 L/min	up to 51 USgpm 193 L/min	up to 18 USgpm 66 L/min	up to 51 USgpm 193 L/min	up to 100 USgpm 378 L/min
Minimum UVT required	45%	50%	50%	50%	35%
Lamp Type	LPHO	LPHO	LPHO	LPHO	Amalgam
Lamp Expected Life	9000 hours	9000 hours	9000 hours	9000 hours	12000 hours
Lamp Heaters	NA	NA	Available	Available	NA
Time Needed for Lamp Change	5 minutes	< 5 minutes	< 2 minutes	< 2 minutes	< 2 minutes
Sensor Design	Analog technology	Digital technology	Digital technology NIST compliant	Digital technology NIST compliant	Digital technology NIST compliant
Dual Sensors	One per unit	One per unit	One per unit	One per unit	One per lamp 2 per unit
Temperature Control	Convection cooling Optional purge valve	Forced air cooling Built-in purge valve	Improved forced air cooling Built-in purge valve	Improved forced air cooling Built-in purge valve	Improved forced air cooling Built-in purge valve
Performance Validation	Factory Tested	Factory Tested	Factory Tested	Third party Validation (1)	US EPA UVDGM Validated
Drinking Water Performance Certification	NSF/ANSI 55 Class A	NSF/ANSI 55 Class A	Factory Tested	NSF/ANSI 55 Class A	NWRI / Validation
Drinking Water System Components – Health Effects / Lead Free Compliance	NSF/ANSI 61 certified	NSF/ANSI 61 certified	NSF/ANSI 61 & 372 certified	NSF/ANSI 61 & 372 certified	NSF/ANSI 61 & 372 certified
Drinking Water and Water Reuse Performance Validation	Factory Tested	Factory Tested	Factory Tested	Factory Tested	NWRI Validation

(1) Pending (2) NA - Not available

Safe water, always.™

info@uvpure.com www.uvpure.com



Available from your local Hallett distributor:

#### WHITE INTERNATIONAL PTY LTD

60 Ashford Ave Milperra NSW 2214 PO Box 304 Milperra NSW 2214 Phone 02 9783 6000 Fax 02 9783 6001 Customer Service 1300 783 601 Email Sales: pumpsales@whiteint.com.au www.whiteint.com.au

#### WHITE INTERNATIONAL NZ LTD

15G Kerwyn Avenue East Tamaki, Auckland 2013, New Zealand Phone 09 579 9777 Customer Service 0800 509 506 Email Sales: sales@whiteint.co.nz www.whiteint.co.nz



# Please always refer to our website for further technical information & new product innovations

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