



# PRODUCT GUIDE



# IONIC SYSTEMS

## THE COMPANY THAT CHANGED THE WINDOW CLEANING INDUSTRY

For 12 years we were expert window cleaners, and for the past 20 years we've continued to draw on that expertise to deliver ground-breaking Reach & Wash® products that make window cleaning safer, faster and more profitable for our customers. This is why we remain No1 in the market.

The Reach & Wash® logo and the words 'Reach and Wash' are registered trademarks of Ionic Systems Ltd. The logo depicts an athletic figure created from water using a waterfed pole for cleaning. The logo reminds us that it is actually

the water that is doing the work. Once you understand that, then like us you'll realise the purer the water the faster and better the cleaning results will be. Uniquely, Ionic offers the very best water quality out of all competing products.

In this introduction to Ionic products we summarise the advantages and benefits of choosing Ionic equipment. For more information, videos and technical specifications you are guided to visit our website [ionicsystems.com](http://ionicsystems.com)



### QUICK CHANGE FILTERS

Our unique 'quick change' filter housings are specially designed to hold all filter types, they carry the largest capacity filter media of their type, which means less frequent filter changes. Furthermore our filters can be replaced in under 30 seconds!



### CRASH TESTED

Uniquely, our van-mounted systems remain the only systems to have been tested to the international FMVSS-208 standard. In twenty years we are proud of our safety record in that none of our systems have become detached during a road traffic accident.



### IONIC SYSTEMS FACTORY

In 1997 many in the window cleaning industry laughed, after all we were just window cleaners, what did we know?. We came from humble beginnings, our first workshop had no heating and the roof leaked. We are grateful to our earliest customers, many of whom are still trading having grown their businesses with The Reach & Wash® System. *Thank-you!*

# OUR HISTORY IN MILESTONES

1997



OTT Launches The Reach & Wash® System and The British Window Cleaning Academy is launched

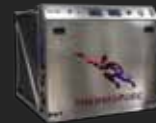
2001

'Over The Top Ltd' Changes its name to 'Ionic Systems Ltd' reflecting the change in the focus of the business



2003

Ionic launches the ERGOLITE range of Reach & Wash® poles, developed to be lighter, stiffer and narrower in response to HSL recommendations.



1998

OTT pioneers the use of composite poles for window cleaning

2002

Ionic launches "THERMOPURE" the first hot water Reach & Wash® system. It quickly won window cleaners approval. Ionic also achieves the FMVSS-208 certificate for successfully crash-testing The Reach & Wash® System

2005

New UK regulations severely restricting the use of ladders cause window cleaners to convert to Reach & Wash® poles in unprecedented numbers



2006

The Pro-6, which reduces water consumption by 50% is developed. And Ionic are granted the right to register the trademark "Reach & Wash®"

2010

Ionic launches the GLYDER carbon pole. With short sections, excellent rigidity and a reach of 30ft

2014

Ionic moves into a new 22,000 sq ft building which is much better suited to modern manufacturing processes

2009

'TRANSVERSE' clamps are fitted to Ionic poles, which are smaller, lighter and grip the poles more evenly. A brand new range of pole is launched called the SWIFT



2012

The Zero system is launched, with fully automated backwash and regen cycle, producing 18 meg-ohm water to zero parts per billion quality



2017

Ionic celebrates its 20th anniversary with great advancements in the pole range. And Reach & Wash® Support Services is launched

## IONIC SYSTEMS - CRASH TESTING

In the pursuit of safety for window cleaners we developed products so that window cleaners could work from the safety of the ground. However, we quickly realised that by installing heavy water tanks in vehicles we had replaced the risk of falling from height with the risk of being crushed by a detached water tank even in a low speed collision.

We engaged Thatcham Research Centre to carry out a number of Hyper-G sled development tests to refine our design so that it would pass a 100% barrier test. The object of testing to the international FMVSS-208 standard is to ensure that the driver and passengers would sustain no injury from a tank break-away even in the most severe head on crash at 50kph.

For your peace of mind all of our van-mounted systems and installations conform to the FMVSS-208 crash test standard. See the Thatcham crash test videos at [www.ionicsystems.com](http://www.ionicsystems.com)

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# WATER HARDNESS



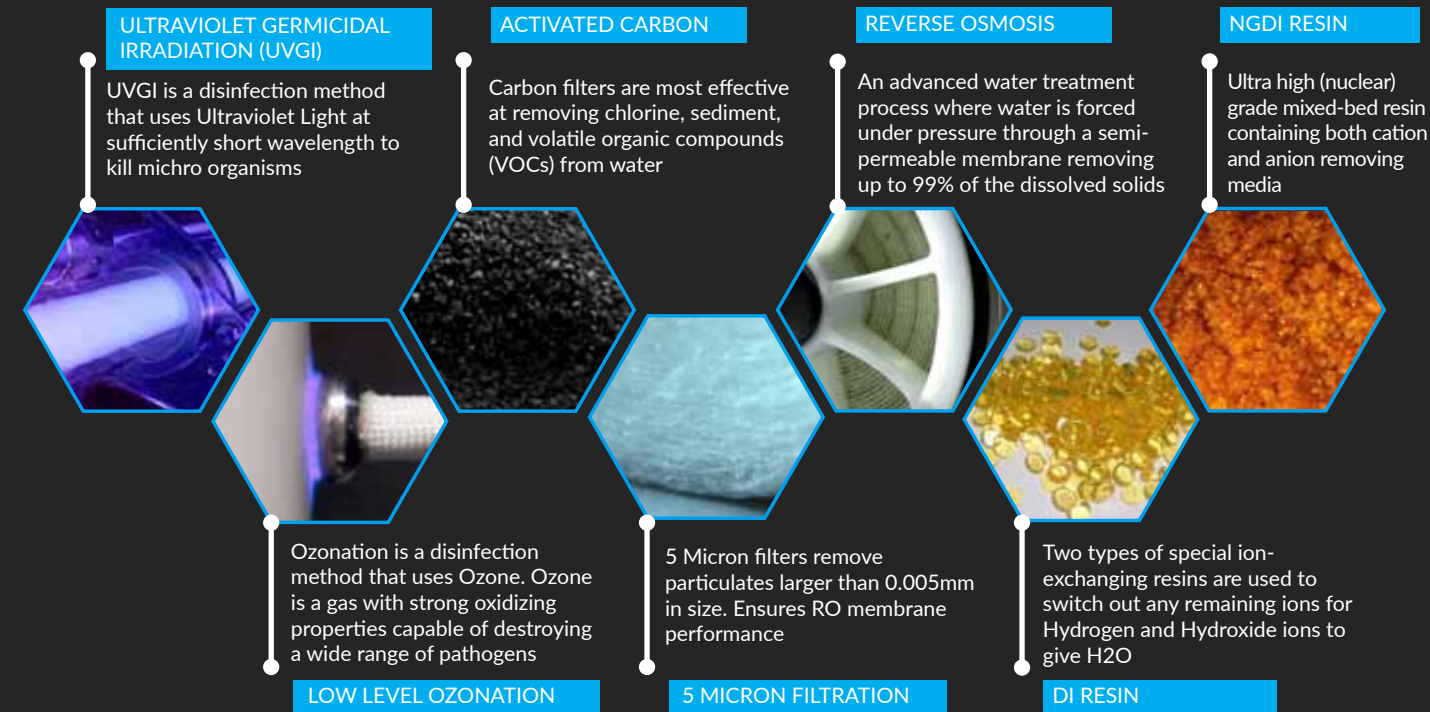
## WATER TREATMENT DEPENDS ON LOCAL WATER HARDNESS

The hardness (calcium content) of the local water supply determines the best setup for the cost effective production of pure water. More filters are required to keep the running cost down in hard water areas, whereas more simple filter systems can be deployed in soft water areas.

Most of the population of England (over 85%) live in hard-water areas. In hard water areas pre-treatment with a water softener is essential for the other stages of filtration to be more efficient and cost-saving.

- SOFT  
0-100 MG/L
- MEDIUM - HARD  
100 - 200 MG/L
- HARD - VERY HARD  
ABOVE 200 MG/L

# STAGES OF WATER TREATMENT





# ZERO™



## 1,000 TIMES PURER

In pursuit of perfection the Zero™ is our flagship system. Combining water at zero parts per billion quality with the catalyst of heat from the on-board Thermo-pure heating system, the Zero™ represents the ultimate window cleaning machine. With water quality that is 1,000 times purer than competitors products, no other machine cleans windows better or faster.

The Zero™ is the machine of choice for ambitious Window Cleaners serious about growing their business portfolio. No other machine impresses customers like the Zero™. Quote to clean with the Zero™ because your customers deserve the best cleaning results, cleaning better and faster means satisfied customers and greater profits.



## FULLY AUTOMATED

With one button operation the simple control panel lets you monitor the entire filtration process. The fully automated process features a host of tech that ensures the highest quality zero PPB 18 meg ultra pure water is produced fill after fill. With clever filter saving technology designed to keep running costs to a minimum, having a Zero™ in the van will put money in the bank quicker than any other machine you can buy.



## RELIABILITY YOU CAN TRUST

After five years in production the Zero™ is a super refined contract-winning machine. The 2017 Zero™ has improved computerised control to reduce demand on the 12v system, larger capacity battery and improved charging.

The Zero™ is the only machine that removes organic matter as well as dissolved solids from the mains water supply. In doing so bio-films and sludge are not able to form on filters, maintaining day-one RO filter performance and extending filter life. Options for the Zero™ include stainless steel filter housings that withstand higher operating pressures for up to 9 litres per minute water production (subject to mains water supply).



Watch the Zero™ video and download the data sheet and pricelist. Scan the QR code or visit [ionicsystems.com/zero](http://ionicsystems.com/zero)



## WANT MORE INFORMATION?



For technical specifications, videos and costs visit our website where you can download and/or print the data sheet and pricelist. Our friendly sales staff are available during office hours to take your call and answer any questions you may have. Alternatively you may prefer to use our online chat, we aim to have an experienced operator available most evenings until 9pm visit: [ionicsystems.com/zero](http://ionicsystems.com/zero)



An increasingly popular way to assess the Zero's performance is to hire it with an operator for a day. Short-term hire gives you the opportunity to field test the system side by side against your existing kit or other systems. We'll send a fully kitted van with an operator to reduce transport costs, the operator will not be a sales person, their job is simply to help you get the most from the hire. Visit [hirereachandwash.co.uk](http://hirereachandwash.co.uk)



If you'd prefer to see the equipment first hand at one of your job sites then we'll be happy to arrange a demonstration. Give us a call to book a live demo on [01793 871 386](tel:01793871386)

# V4™



## A WINDOW CLEANING WORKHORSE

The V4™ family is Version 4 of the original Reach & Wash® system, it's a machine of modular design that has been refined over twenty years to be the most reliable Window Cleaning workhorse of a machine. All of the quick-release components are fitted to the front face that is open for easy access for speedy maintenance.

The modular design means that V4™ is available in a range of easily upgradable options, so as your business grows your V4™ can grow with you. No need to buy a new machine later, whether you need more water capacity, faster filling or better water quality you can choose a V4™ that suits your current needs and upgrade it later.

With tech features available to give superior water quality, V4™ water quality begins where other systems stop.



## THE V4 FAMILY

There are 4 models in the V4™ range DiFuse™, Fuse™, Fusion™ & Fusion™ 'S' that cater for soft and hard water and everything in between. Producing purified water in the 10 - 15 meg-ohm range their quality is unmatched by any other (Zero™ excepted).



For technical specifications and costs visit our website where you can download and/or print the data sheet and pricelist. Scan the QR code or visit:

[ionicsystems.com/v4](http://ionicsystems.com/v4)



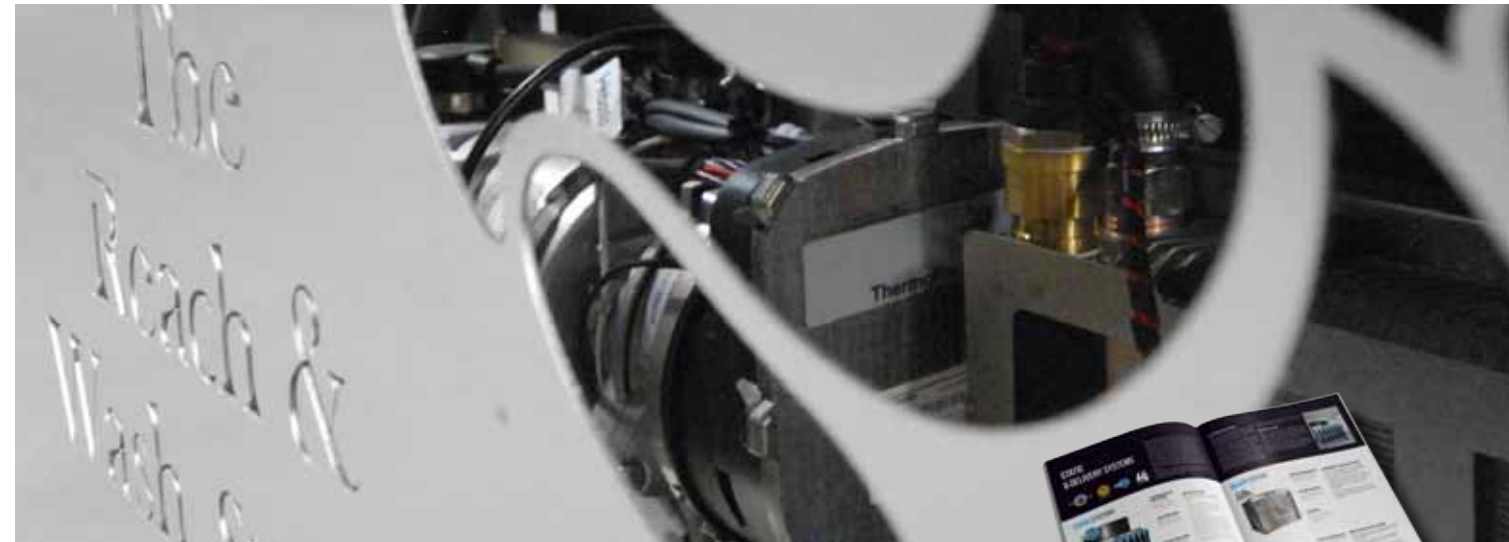
## STATIC & DELIVERY SYSTEMS



### PERMANENT LOCATION AND VEHICLE MOUNTED SYSTEMS

Both V4™ and Zero™ are available in static configurations, combined with fully automatic water softeners, continuous 24-hour operation can be achieved for high volume production. Custom made pure water holding tanks can be made to fit any location and any volume requirement.

If your preference is to produce large volumes of purified water at one static location then we can tailor a fully expandable package to suit both your current and future needs.



### CRASH TESTED...



Vehicle mounted delivery systems are built to the FMVSS-208 standard, come with or without post DI and can be configured with the Thermo-pure heating option, multiple 12v pumps, quick fill and drain facilities.



For technical specifications and costs visit our website where you can download and/or print the data sheet and pricelist. Scan the QR code or visit:

[ionicsystems.com](http://ionicsystems.com)

# QUATTRO™

## THE ULTIMATE ON-SITE SOLUTION

For professionals, Quattro™ trolleys provide the perfect solution for long duration window cleaning in limited access areas, such as courtyards, rooftops for Atrium cleaning, abseil and cradle access. In-fact any area that can't be reached by hose from a van-mounted system. Quattro™ trolleys are also the chosen option for occasional single site situations where in-house cleaning is undertaken.

Once connected to both mains water and electricity its possible to produce up to 9 ltrs of purified water per minute (dependent on model and mains water supply). Sufficient to supply purified water for up to four window cleaners.

Quattro trollies have been designed with ease of maintenance and servicing in mind. The open design facilitates unimpeded access to all the major components, for example the pump head can be removed in less than one minute.



## RISING HIGH...

Increasingly abseil and cradle window cleaners are moving to Reach & Wash® as they see for themselves the benefits of improved reach and optimal multi surface cleaning, 200% quicker than using hand tools. Uniquely Ionic Quattro™ systems feature Karabiner tie-back holes for rooftop security.

*Quattro™ filters can be replaced in under 30 seconds!*



For technical specifications and costs visit our website where you can download and/or print the data sheet and pricelist. Scan the QR code or visit:

[ionicsystems.com/quattro](http://ionicsystems.com/quattro)

# TASK™



## PERFECT REMOTE CLEANING PARTNER

For professionals, Task™ trolleys provide the perfect solution for short duration window cleaning in inaccessible areas such as courtyards and rooftops. Filled from your van-mount or Quattro™ the Task™ 75 trolley holds sufficient purified water for up to 1 hours remote cleaning.

Uniquely Task2™ has been designed to work as an all day 'pumping' station to extend the working range of any van-mount or Quattro™ by up to 400mtrs (dependent on terrain). Task2™ can be left connected during work breaks with no fear of overflowing making it the perfect partner for cleaning at Solar Panel Parks.

Download more information at:  
[ionicsystems.com/task](http://ionicsystems.com/task)



# HOTBOX™



## UNLEASH THE POWER OF HOT WATER

When heated, pure water becomes an even more powerful cleaning agent, Winter or Summer, adding the compact Hotbox™ to your cold water van-mounted system will give you power to your elbow. Initial cleans on even the dirtiest most neglected windows becomes a breeze, saving you valuable water and time to fit more work into your day!

In the Winter frozen hoses and cold hands become a thing of the past, clearly the Hotbox™ is an upgrade that'll pay for itself and add to your profit in a very short time.

Download more information at:  
[ionicsystems.com/hotbox](http://ionicsystems.com/hotbox)





## REACH & WASH® POLES

2017 is The Reach & Wash® Systems 20th anniversary so this year is Ionic's year of the pole and to celebrate we are introducing not one but two new pole ranges, PROTECTOR™ and VERTIGO™.

The all new VERTIGO™ features new clamps to reduce wear, quick change brush head design, water through angle crank (so no more external hoses to snag), pole handle water shut-off, quick connect hose and a new water delivery system to ensure 100% reaches the glass. In all six patent protected features to enhance your work experience and reduce time on the job have been included.

Despite the best efforts of the Window Industry to warn Window Cleaners about the risk of electrocution too many have lost lives or suffered serious burns whilst using waterfed poles near overhead power-lines of under 1,000volts. Ionic Systems is the only company to have addressed road safety and now Ionic Systems is the only manufacturer to have developed a waterfed pole to address the risk of electrocution.

**VERTIGO™** *PROTECTOR™*



## QR ANGLE CRANK

Featuring an entirely new angle crank made from stiffer polycarbonate ABS plastic, the new patented angle crank design benefits from spring assisted quick release clamping and an internal water feed.





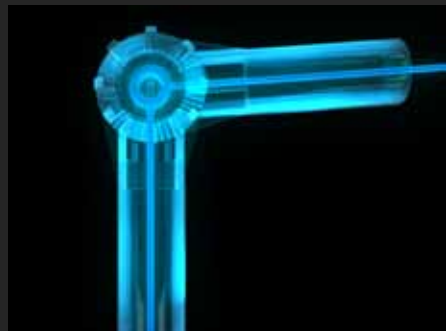
### HEAD ROTATION

Transverse clamp built into the carbon gooseneck allows the brush head to be removed, rotated and re-clamped quickly. This allows the operator to use the brush head in the vertical plane, a useful feature for a variety of cleaning situations.



### SPRING LOADED

Combined with wear resistant telescopic tubes Ionic's new patented spring assisted pole clamp ensures smooth action whilst minimising wear in the pole sections. While other designs ensure that poles remain clamped as the section wears, our focus was to engineer out factors that contribute to pole tube wear in the first place. In doing so Ionic's new poles last considerably longer, retain their performance and save you money over time.



### HYDRO FLOW

Gone are the ugly water tubes and connectors that stick out at the top of the pole. Its goodbye to snagging in trees, bushes and parts of the building and its goodbye to associated leaks. Our new patented design carries the water through the angle crank directly to the new quick release brush-head design.



### BRITISH STANDARD

The new PROTECTOR pole conforms to the internationally respected British Standard BS:8020 for hand tools that may come into contact with electricity.

BS8020:2011  1000 V 17



For our complete range of poles, technical specifications and costs visit our website where you can download and/or print the data sheets and pricelist. Scan the QR code or visit: [ionicsystems.com/poles](http://ionicsystems.com/poles)



## STAINLESS STEEL HOSE REEL



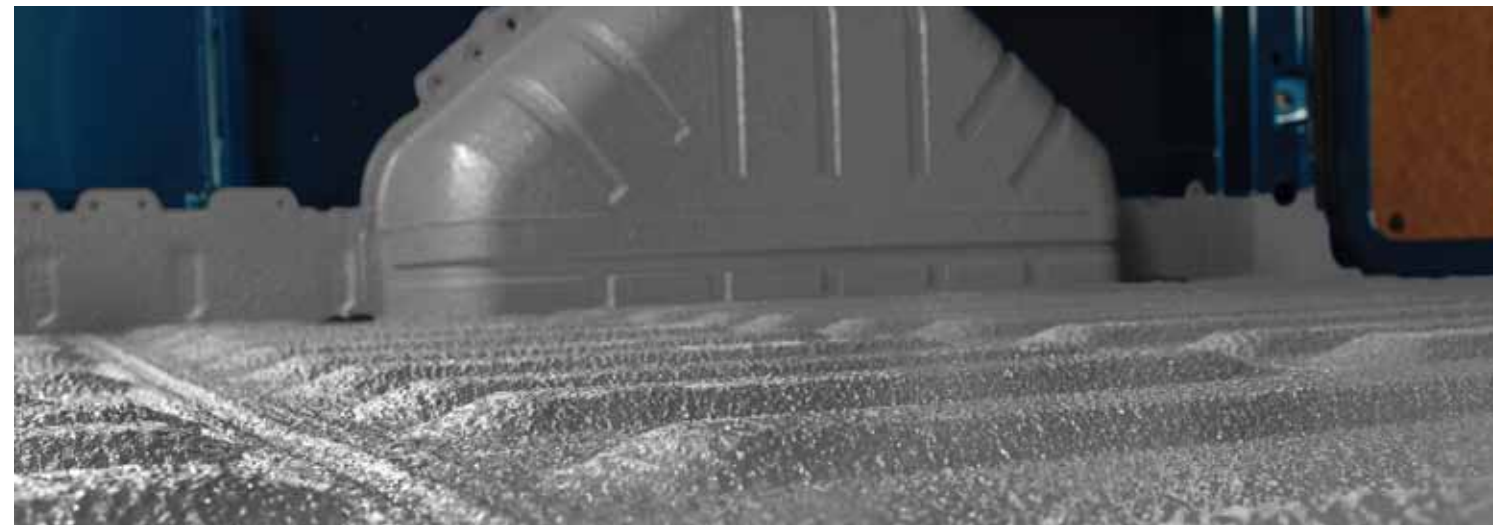
### QUALITY LIKE NO OTHER

Our stainless steel hose reels are like no other available. Manufactured at our factory in Wiltshire, our hose reels have been meticulously designed to cope with the hard life that is expected of them.

Manufactured from Stainless Steel, they will not rust even if left exposed to the elements. We are confident that if you purchase one of our hose reels, it will look as good and function as well in 10 years time as the day you bought it.

But you don't just have to take our word for it. Our hose reels are covered by a 10 year warranty, so you can be confident that when you buy our reel, you really are buying quality without compromise.

Download more information at:  
[ionicsystems.com/hosereel](http://ionicsystems.com/hosereel)



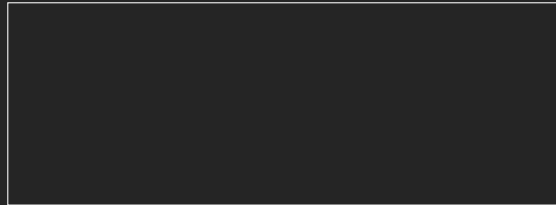
## VEHICLE FLOOR PROTECTION

We can apply a hard-wearing, waterproof vehicle lining that protects your van floor from rust, damage and water ingress. With vehicle floor protection you won't need to worry about water spillages, scratches or other damage that can occur to a hard-working van.

The lining is applied to the van floor and the lower section of the walls for maximum protection. Water simply runs off without even coming into contact with the paintwork.



**ionic**<sup>®</sup>  
SYSTEMS



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