

2014 CATALOGUE



ionic[®]
SYSTEMS

Quality without compromise



16



30

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Chairman's Letter

SPRING 2014



2014 promises to be exciting for Ionic Systems and its customers. With the UK now out of recession and growth returning to the economy, most people feel more confident going forward. At Ionic Systems, we have been as busy as ever.

In 2014 we will be adopting some new and exciting manufacturing processes that will bring benefits to our customers. We have invested heavily in research and development, and our new premises at Westerngate in Swindon will give us the flexibility and space to take advantage of new manufacturing techniques.

This means better, more reliable products for our customers, but crucially this also means that we will be able to bring new products to the market much more rapidly than in the past.

Our focus has always been to produce top quality products that last, and that serve the needs of our customers. We will continue with this focus now and into the future!

Craig Mawlam
 Chairman, Ionic Systems Limited



On the 3rd of April 2014, Ionic moved from the factory we occupied since 2004 at Westmead Industrial Estate, to a new, much larger facility.

The new 22,000 sq ft building at Westerngate is much better suited to modern manufacturing processes, and will facilitate greater product volumes and new production techniques.

"The old Ionic building served us well for ten years, but we have simply outgrown it," comments Craig Mawlam, "the new facility will allow us to bring in some larger, more advanced machinery to help us to keep pace with our continued growth."

IONIC SYSTEMS

AT THE FOREFRONT OF
INNOVATION FOR
OVER 20 YEARS

The Reach & Wash® System was first introduced in 1997. It's no exaggeration to say that this innovation has changed the way window cleaners work all over the world. Now, the Reach & Wash® System is a global success story, and innovation is still at the heart of what we do. We continue to push the boundaries of new technology with ongoing commitment to research and development.

Our new Zero™ system is at the cutting edge of pure-water cleaning technology and incorporates several features that enable window cleaners to work more efficiently. Not least of these is water purity of Zero parts per billion, a thousand times purer than previously possible. The water produced is so pure that excellent results are guaranteed, with easier cleaning and less water used for rinsing. A "spot free" cleaning result is 1,000 more likely with the Zero™ compared to other systems, this means fewer complaints, call backs and re-cleans and therefore higher profits.

Ionic has stayed
in the lead due to
innovation and a
no-compromise
approach to quality

“
Ionic Systems continues
to be a global business,
with distributors in 30
countries and exports to
over a hundred. We are
simply the biggest supplier
of pure-water cleaning
equipment in the UK, Europe
and The World.

”



QUALITY WITHOUT COMPROMISE

OBSESSED WITH QUALITY

CRASH-TESTING TO FMVSS-208



Part of our commitment to quality involves keeping you safe.

We don't take any risks when it comes to safety. We know (and have proved) that poorly secured water tanks pose a serious danger to drivers and passengers.

We commissioned an extensive crash-testing program to ensure that our machines would never pose such a danger. We remain the only company to have successfully achieved the FMVSS-208 standard for crash testing our Reach & Wash™ systems.

STAINLESS STEEL CHASSIS



We manufacture our machine chassis from stainless steel for one simple reason, it's the best material for the job.

Completely non-rusting, stainless steel is an expensive material that requires specialist equipment and a high degree of skill to weld and form.

Nevertheless, we know that this is an area where compromise costs. Powder-coated mild-steel always rusts, and rusty machines look bad in your customers eyes and have no second hand value.

We are so confident that our machine chassis are built to last, that we cover them with a 10-year warranty.

CAREFULLY CRAFTED DESIGN



We believe that the best way to deliver a product that's perfect for its purpose is to design it from scratch. Rather than trying to make a product made from a variety of "off the shelf" components designed for different purposes, we have always adopted a "ground-up" approach to our products.

We are proud of our window-cleaning heritage, because we cleaned, we know how to clean, and that comes across in our product offering. We continue to invest heavily in Research & Development to improve our existing products and to create brand new ones.



Stainless Steel

We use Stainless Steel for our fabrication for one very good reason. It is simply the best material for the application. More expensive than powder-coated mild steel, Stainless Steel is clearly the best material for the job.

Because it does not rust, Stainless Steel maintains its crucial structural integrity no matter how many times it is exposed to moisture. Not only is this important from a safety point of view, it also means that a properly serviced machine will last literally decades.

We regularly see customers who still use our machines after more than 15 years, having transferred them from vehicle to another and another. Machines that outlast the vehicles they are fitted to make a great investment!

Because we use the best material for the purpose, we are confident that our machine frames will last and last.

That's why we cover them with a 10 year warranty - unique in this industry!



QUALITY SETS US APART

Each and every one of our products is meticulously designed, tested and then manufactured with an obsessive focus on one thing: Quality.

We know that customers the World over appreciate products that are carefully designed, well manufactured built to last and perform perfectly.



IONIC TAKES A NO-COMPROMISE APPROACH TO QUALITY

WATER HARDNESS

- **SOFT**
0-100 mg/l
- **SLIGHTLY HARD - HARD**
100-200 mg/l
- **HARD - VERY HARD**
Above 200 mg/l

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.

Hard - Very Hard Water Areas
Most of Southern and Eastern parts of England, as well as most populated midland areas have hard or very hard water.

Soft Water Areas
Most of Scotland, and some areas of North West England have relatively soft water.

Slightly Hard-Hard Water Areas
Moderately hard water areas include parts of the East Midlands, Wales and small areas of Southern England.



SOFTENING THE WATER



USING A WATER SOFTENER

Softening water using an Ionic water softener is straightforward. Simply attach the in-line softener between the water supply and the Machine, the softener will treat the water as it's used. Ionic offers a range of in-line softeners to suit all applications. Using the correct water softener will greatly improve performance and lifespan of the Reverse Osmosis filter.



SOFT (0-100 mg/l)

In very soft water areas below 30mg/l a water softener is not necessary, however for water between 30 – 100mg/l then a single in-line "Caddy™" or "WallSoft™" softener will serve to protect your investment in the long term but may still be considered as optional.

MEDIUM to HARD (100-200 mg/l)

A water softener should be regarded as essential for water of medium hardness. Reach & Wash™ Systems operated without the use of an inline water softener will be subject to more frequent filter changes, slower pure water production and higher operating costs.

HARD to VERY HARD (Above 200 mg/l)

A water softener should be regarded as essential in areas with hard water above 200mg/l. Reach & Wash™ Systems operated without the use of an inline water softener will be subject to more frequent filter changes, slower pure water production and significantly higher operating costs.

Water Softening Solutions

Caddy™ In-line Water Softener

Ionic Systems in-line 'Caddy™' water softeners are the ideal choice for window cleaners on the move, ideal for water softening onsite. The portable Caddy™ is easily carried and connects in-line between the water supply and the machine. The Caddy™ is available as single or duplex models.



WallSoft™ In-line Water Softener

A simple wall mounted water softener system that connects in-line between the water supply and the machine. Installed at the primary place of pure water production, WallSoft™ can be configured to soften even the hardest water.



MultiSoft™ In-line Water Softener

Ionic's MultiSoft™ is a high-capacity, mobile water softener with on-board softener regeneration ideal for hard water above 200mg/l and work of long duration. The MultiSoft™ is the perfect partner the QuattRO™ when used for roof top operations. MultiSoft™ is a true go-anywhere system.



AutoTrol Automatic Water Softener

The AutoTrol is an automatic water softener management system that will efficiently manage the output and regeneration cycle of a water softening vessel.

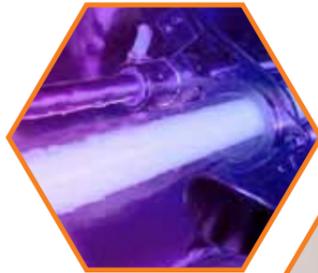


Prices & Ordering	Price
Caddy™ In-Line Softener	£250
Caddy™ Duplex In-Line Softener	£675
WallSoft Softener	£400
MultiSoft Trolley	£1,250
AutoTrol	Please contact us for current prices

STAGES OF WATER TREATMENT

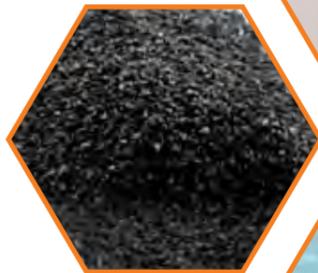
ULTRAVIOLET GERMICIDAL IRRADIATION (UVGI)

UVGI is a disinfection method that uses Ultraviolet Light at sufficiently short wavelength to kill micro-organisms. In water treatment it is highly effective against water-bourne hazards such as the Legionella bacterium.



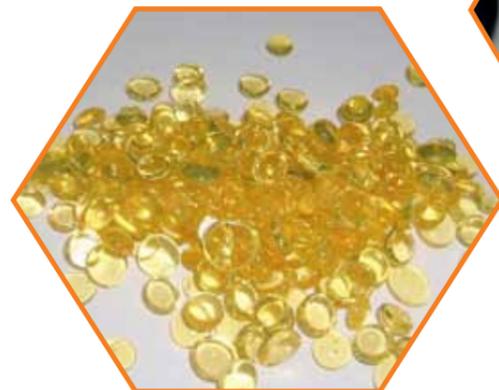
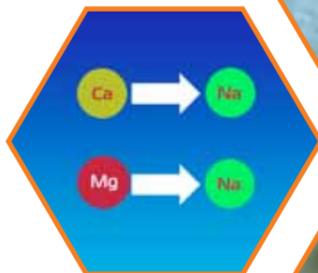
ACTIVATED CARBON

Carbon filters are most effective at removing chlorine, sediment, and volatile organic compounds (VOCs) from water. If not removed, they damage the RO membrane. Activated Carbon neutralizes Ozone gas after it has done its work.



WATER SOFTENING

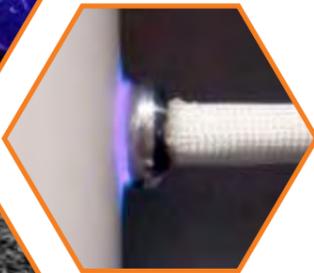
Ion-exchange resin is used to switch out calcium and magnesium ions and replace them with sodium ions, and prevents calcium deposits forming on the membrane. This type of resin may be regenerated with salt. Adding sodium to the water also instantly forms salt crystals on remaining impurities so that they become too big to pass through the RO membrane. Improving RO performance prolongs the life of the DI filter and reduces running costs.



DE-IONISATION

Two types of special ion-exchanging resins are used to switch out any remaining ions for Hydrogen and Hydroxide ions to give H₂O. Usually these two resin types are mixed together in a "mixed bed" DI filter.

A highly effective water treatment, but relatively expensive, so usually only used as the final stage in a water-treatment system once most of the impurities have already been removed.



LOW LEVEL OZONATION

Ozonation is a disinfection method that uses Ozone. Ozone is a gas with strong oxidizing properties capable of destroying a wide range of pathogens, including prions. Prevents bio-film and prolongs filter life.



5 MICRON FILTRATION

5 Micron filters remove solid particulates larger than 0.005mm in size. Ensures RO membrane performance.



REVERSE OSMOSIS

An advanced water treatment process where water is forced under pressure through a semi-permeable membrane. Highly effective and economical, RO removes up to about 98% of the dissolved solids even in hard water areas. However, RO membranes are delicate and easily damaged by chlorine and other impurities, which must be removed before this stage.

SPEED OF CLEANING

Frequency of cleaning will help you decide the best system for you

Because dirt builds up on windows over time, the speed of cleaning will usually be determined by how frequently windows are cleaned. Windows cleaned monthly will only have a chance to build up a light covering of dirt, and therefore are quick to clean even with cold, zero parts per million water.

However, windows that are cleaned less frequently have a heavier build-up of dirt and so take longer to clean. For cleans such as these, the extra dirt-dissolving power of hot water and zero parts per billion water can make all the difference to the speed of the clean.



Windows Cleaned Monthly - Light Dirt Build-Up

Windows cleaned frequently, typically residential properties away from major roads usually only have light build-up of dirt. These are the easiest and fastest to clean whatever system is used. Hot water and water purified to zero parts per billion will reduce the time needed to clean, but the difference is less noticeable.

Water Used

Cold water at zero parts per million
Hot water at zero parts per million
Cold water at zero parts per billion
Hot water at zero parts per billion

Speed of Cleaning



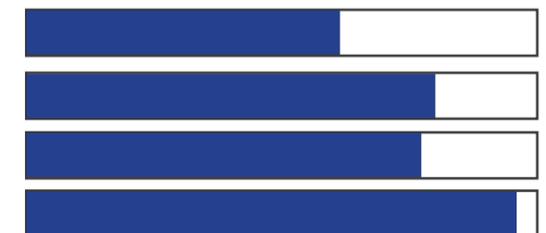
Windows Cleaned Three-Monthly - Moderate Dirt Build-Up

Windows cleaned every three to six months or those near major roads often have moderate build-up of dirt. Cold water at zero parts per-million will clean these windows effectively, but it will take time, especially with extra rinsing. Using hot water or zero parts per-billion water is noticeably faster. Using hot water at zero parts per-billion you will experience a significant time saving.

Water Used

Cold water at zero parts per million
Hot water at zero parts per million
Cold water at zero parts per billion
Hot water at zero parts per billion

Speed of Cleaning



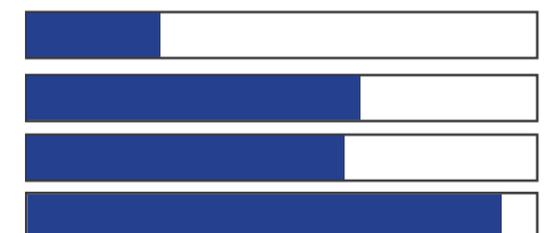
Windows Cleaned 12 Monthly - Heavy Dirt Build-Up

Windows cleaned infrequently or not at all, and those in close proximity to major roads suffer both heavy soiling and bonded pollution. It is on these type of cleans that the extra cleaning power of hot water and zero parts per-billion is most noticeable. Using either hot Zero PPM water or Zero PPB water will be approximately twice as fast. Heated Zero PPB water powers through the grime in a fraction of the time.

Water Used

Cold water at zero parts per million
Hot water at zero parts per million
Cold water at zero parts per billion
Hot water at zero parts per billion

Speed of Cleaning



VEHICLE MOUNTED SYSTEMS



EVERYTHING RIGHT WHERE YOU NEED IT

Window cleaning is one of those businesses where time really is money. The quicker the work can be completed for a competitive fixed price the sooner the next job can begin. The more windows that can be cleaned in a day the more money that can be earned.

It's simple really, but a fact of window cleaning life that's overlooked by suppliers who have never cleaned windows for a living!

Portable trolley systems have their uses and compliment a busy Window Cleaner's arsenal of equipment, but for the true professional nothing beats a van-mounted system.

In the old days a Window Cleaner would drive up and unload his ladders, carry them and his bucket to the first window and work begins.

Van-mounted Reach & Wash™ Systems work in the same way but instead the cleaner carries a waterfed pole and drags a hose. Unlike portable trolley systems that require the use of the customers water and electricity supply, the van-mount Reach & Wash™ operator is self sufficient so work can begin in seconds at any place, any time.

The time taken to source, and safely connect a suitable water and electricity could easily waste 30-40 minutes of working time.



Vehicle-mounted systems mean you have everything right where you need it, with no need to rely on anyone else for a supply of water.

FINANCING FOR YOUR SYSTEM

Although some choose to purchase their system outright, the majority of our customers choose to finance their system over a period of 3 or 5 years. There are several reasons why this is a good option.

By not having a large amount of capital tied up, cash is available to spend on other activities that will help to generate business, such as marketing. But as well as the obvious cash-flow benefits, there are several other reasons why lease financing is one of the best ways to purchase your equipment.

Lease payments are 100% tax deductible, meaning that you can claim the full expenditure against tax in any given year.

We're very experienced at helping businesses to acquire the equipment they need with a practical and affordable payment schedule. We can even arrange to finance a vehicle and Reach & Wash® system together in the same package.

Because of the high volume of business we place every year, we can secure the best interest rate in the industry. Don't compare on price until we have quoted the complete package including finance!



Heated Water
The Thermopure™ upgrade provides for heated pure water

Digital Flow Control
Auto-compensating digital flow control allows precise operation of the pumps.

Fully Automated Flush & Regen Cycle
The Zero™ automatically performs the RO flush before each fill, and on completion will regenerate the water softening filter.

Dual TDS Monitoring
The TDS of the water at critical stages is monitored.

Temperature Gauge
Accurately measures the temperature of water being delivered to the pole.

Mains Battery Charger
Integrated mains-powered CTEK battery charger.

The Zero offers the following benefits;

- Fully Automated - connect water supply, switch on and forget
- Automated Softener backwash
- Automated RO flushing
- Automated RO Optimisation
- New replaceable cartridge filter system
- Running costs reduced by up to 30%
- Digital control panel for fully automated operation
- LED Backlight
- Crash tested component chassis
- Stainless steel construction
- Dual delivery pumps
- 240v or 110v boost pump for rapid tank filling (Optional)
- 115 amp battery, split charger and mains charger
- Hours meter, Battery condition gauge, Dual TDS meter, Water pressure gauge
- 30" Activated Carbon filter, 5 Micron Sediment filter, Integrated Water Softener, Reverse Osmosis, De-Ionisation
- Remote Pump Activation

The Zero™ PPB System also has these features:

- UVGI with O3 Generator
- Perpetual NGDI
- 0ppb 18 MΩ Ultra pure water production



Easy Refillable Filters
The filter media cartridge is simply replaced when spent.



Digital Control Panel
The unique control panel manages dual pumps and the Zero's automated flush and regen cycle.



Remote Pump Activation
Each pump may be activated remotely, using the keyfob.



The stainless steel chassis, along with any stainless steel filters are covered by our 10-year warranty

Fully Baffled Tank
Black polypropylene tank with advanced baffling for increased vehicle stability.

Twin Pumps
The Zero™ has two independently controlled pumps allowing more than one pole to be used at the same time.

115 aH Battery
The Zero is powered by a high capacity lead-acid battery.

Tank Sight Gauge
Fast and accurate view of the water level in the tank.

THE BILLION DIFFERENCE

The Practical Benefits of Zero parts per Billion

Some may wonder about the need for water of such high purity, and what the real benefits are. Those who have actually used 0-PPB water for window cleaning see the difference immediately. The cleaning power of 0-PPB pure water has to be seen to be believed!

Superior Cleaning Power

When budgets are squeezed, window cleaning frequency is often hit. This means dirtier windows, but no additional budget to cover the extra time needed.

This is where the Zero™ PPB system will prove invaluable. The higher purity water slices through baked-on grime, even on less-frequently cleaned windows.

When combined with the Thermopure™ heated water upgrade, the Zero™ offers cleaning power that's second to none.

Give your business the edge with superior results on challenging cleans in less time.

Window cleaners who have used the Zero PPB system report time savings as great as 40% on less frequently cleaned windows.



ZERO™

The Zero™ represents the Ultimate in Pure water Window Cleaning Systems

The most advanced Reach & Wash® System ever, Ionic's new Zero™ produces ultra pure water at zero parts per billion (0ppb) and that represents the gold standard. Water at 0ppb is one thousand times purer than water at 0ppm and because pure water cleans by dissolving dirt ions, it follows that water at 0ppb is capable of dissolving much more dirt and grime than water of 0ppm. This means faster cleaning, especially on infrequent jobs.

Other systems remove only dissolved solids from the water supply, uniquely the Zero™ removes both dissolved solids and all organics as well as bacteria from the water supply. The result is not only water that is 1,000 times purer but also ultra pure water that is free from micro-organisms such as legionella bacteria and the organic matter that bacteria feeds upon. A significant benefit is that bio-film cannot form upon the surface of filter media or the RO membrane that means that filters maintain day one performance which in turn means lower running costs.

The Zero™ can be upgraded with high pressure stainless steel filter housings and a powerful booster pump, enabling even faster filling.

Note: A conventional zero parts per million version is also available.

PRICES & FINANCE

Zero™ PPM System	Machine Only	3-Year Finance	5-Year Finance
Zero parts per Million			
Zero™ PPM System 300 Litre	£7,795	£280.62	£187.08
Zero™ PPM System 400 Litre	£7,895	£284.22	£189.48
Zero™ PPM System 500 Litre	£8,395	£302.22	£201.48
Zero™ PPM System 600 Litre	£8,495	£305.82	£203.88
Zero™ PPM System 700 Litre	£8,595	£309.42	£206.28
Zero™ PPM System 800 Litre	£9,095	£327.42	£218.28
Zero™ PPM System 900 Litre	£9,195	£331.02	£220.68
Zero™ PPM System 1,000 Litre	£9,295	£334.62	£223.08

Upgrades

Thermopure™ Hot Water	+£3,750	+£135.00	+£90.00
Boosted Fill	+£1,250	+£45.00	+£30.00
Stainless Steel Filter Housings	+£500	+£18.00	+£12.00
Parts Per Billion (PPB)	+£1,200	+£43.20	+£28.80

WEIGHTS & REQUIRED PAYLOADS

Reach & Wash® ZERO™ System	Machine Only Weight	Machine Full Weight	Working Time Min	Working Time Max	Min Payload Required
300 Litre System	185 Kg	485 Kg	2 Hrs	5 Man Hrs	685 Kg
400 Litre System	190 Kg	590 Kg	2.5 Hrs	6 Man Hrs	810 Kg
500 Litre System	205 Kg	705 Kg	3 Hrs	8 Man Hrs	1,025 Kg
600 Litre System	210 Kg	810 Kg	3.5 Hrs	10 Man Hrs	1,130 Kg
700 Litre System	215 Kg	915 Kg	4 Hrs	11.5 Man Hrs	1,235 Kg
800 Litre System	225 Kg	1025 Kg	4.5 Hrs	13.5 Man Hrs	1,345 Kg
900 Litre System	230 Kg	1,130 Kg	5 Hrs	15 Man Hrs	1,450 Kg
1,000 Litre System	235 Kg	1,235 Kg	5.5 Hrs	16.5 Man Hrs	1,535 Kg



Digital Flow Control
Auto-compensating digital flow control allows precise operation of the pumps.

Dual TDS Monitoring
The TDS of the water at critical stages is monitored.

Mains Battery Charger
Integrated mains-powered CTEK battery charger.



Fully Baffled Tank
Black polypropylene tank with advanced baffling for increased vehicle stability.

Tank Sight Gauge
Fast and accurate view of the water level in the tank.

Twin Pumps Upgrade
The V4™ has a single pump as standard, but may be upgraded to two independently controlled pumps allowing more than one pole to be used at the same time.



Easy Refillable Filters
The filter media cartridge is simply replaced when spent.



Remote Pump Activation
Each pump may be activated remotely, using the keyfob.

V4 System includes;

- FMVSS-208 Compliant Crash-Tested Steel Component Chassis
- 4-Stage Water Treatment:
 1. Carbon Filter - Removes Chlorine, protects RO membrane.
 2. 5 Micron Filter - Removes impurities larger than 5 microns
 3. RO Filter - Mechanically filters water, rejects up to 98% of remaining impurities
 4. DI Filter - Polishes water to zero parts per million purity
- Water meter, Dual TDS meter, Water pressure gauge
- Automatic fill shut-off
- Auto-compensating flow controller(s)
- Remote Pump Activation

The V4 is also available as a DI only version, for use in soft-water areas or as a delivery system.



Simple Systems for Straightforward Cleaning

Since being introduced, the Reach & Wash® System has undergone a number of revisions. V4™ represents the latest, fourth generation of the Reach & Wash® vehicle-mount.

Having pure water on-board means that window cleaning starts within minutes of arriving at the job site with the minimum of set-up time.

V4™ uses Ionic's latest filter housings with replaceable filter cartridges mounted vertically on our trademark crash tested stainless steel frame. V4™ boasts the use of John Guest fittings throughout ensuring a neat and leak free design. The standard V4™ is available in a range of tank sizes from 300 to 1,000 litres to suit all types of commercial vans and only requires mains water pressure (min 60psi) to filter tap water down to zero parts per million purity.

If a water supply is available on site then the V4™ can process pure water into the tank whilst the 12volt pumps deliver pure water for cleaning. The standard V4™ features a 12volt pure water delivery pump operated by a variable pump speed controller, automatic tank-full shut off, and a water level indicator.

The V4™ can be upgraded to FastFill with a powerful mains powered pump that can increase the rate of pure water production significantly.

THE V4 ALLOWS YOU TO THE FLEXIBILITY TO CHOOSE THE FEATURES FOR YOUR SYSTEM

PRICES & FINANCE

V4™ System		Machine Only	3-Year Finance	5-Year Finance
V4™ System	300 Litre	£4,395	£158.22	£105.48
V4™ System	400 Litre	£4,495	£161.82	£107.88
V4™ System	500 Litre	£4,995	£179.82	£119.88
V4™ System	600 Litre	£5,195	£187.02	£124.68
V4™ System	700 Litre	£5,295	£190.62	£127.08
V4™ System	800 Litre	£5,795	£208.62	£139.08
V4™ System	900 Litre	£5,895	£212.22	£141.48
V4™ System	1,000 Litre	£5,995	£215.82	£143.88

Upgrades/Downgrades			
Boosted Fill Upgrade	+£1,250	+£45.00	+£30.00
Stainless Steel Filter Housings Upgrade	+£250	+£9.00	+£6.00
V4 Soft Water DI Only Downgrade	-£500	-£18.00	-£12.00

OPTIONAL UPGRADES



BOOSTED FILL

A powerful, mains-powered water pump boosts the pressure of the inlet water when filling, which dramatically improves the rate of pure-water production.

The boosted fill upgrade can enable filling up to three times faster than mains pressure alone.



STAINLESS STEEL HOUSINGS

Polymer filters are upgraded to high-pressure stainless steel. This enables the reverse osmosis system to operate at even higher pressures, further improving the rate at which pure water is produced.

The stainless steel housings are covered by our 10-year warranty.



WEIGHTS & REQUIRED PAYLOADS

Reach & Wash® ZERO™ System	Machine Only Weight	Machine Full Weight	Working Time Min	Working Time Max	Min Payload Required
300 Litre System	185 Kg	485 Kg	2 Hrs	5 Man Hrs	685 Kg
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600 Litre System	210 Kg	810 Kg	3.5 Hrs	10 Man Hrs	1,130 Kg
700 Litre System	215 Kg	915 Kg	4 Hrs	11.5 Man Hrs	1,235 Kg
800 Litre System	225 Kg	1025 Kg	4.5 Hrs	13.5 Man Hrs	1,345 Kg
900 Litre System	230 Kg	1,130 Kg	5 Hrs	15 Man Hrs	1,450 Kg
1,000 Litre System	235 Kg	1,235 Kg	5.5 Hrs	16.5 Man Hrs	1,535 Kg

UPGRADES

ZERO PARTS PER BILLION



The Zero™ system can be upgraded to include additional filter stages to purify the water to Zero parts per billion - a thousand times purer.

The cleaning power of 0PPB water has to be seen to be believed. With a much greater dissolving capacity, water this pure can cut through even baked on grime with ease.

As building owners' budgets are squeezed, window cleaning frequency is often hit. This means dirtier windows, but no additional budget to cover the extra time needed to clean them.

This is where the Zero PPB system will prove invaluable! The higher purity water slices through baked on grime, even on less frequently cleaned windows.

When combined with our Thermopure™ heated water upgrade, the Zero™ offers cleaning power second to none.

But that's not all...

Because the water is purified to a higher degree, even incorporating UV sterilisation to destroy any biological contamination, the other filters are kept algae and bio-sludge free. Not only does this greatly lengthen their lifespan, it also allows them to operate at peak efficiency.

No matter how you look at it, The Zero™ PPB system is the most advanced system available in the world today!

To see what impact the use of 0PPB water has on the speed of cleaning, please see the diagram on page 11

BOOSTED FILL



A powerful, mains-powered pump boosts the pressure of the incoming water when filling, which greatly improves the rate of pure-water production.

It's well known that all reverse osmosis systems are more efficient at greater pressures. This is because the process depends on the differential in pressure on either side of the membrane. The higher the pressure going in, the greater the pure water production will be.

The booster pump we use raises the pressure to 120 psi (180 psi when Stainless Steel filter housings are fitted), dramatically improving the rate at which pure water is produced.

The Boosted Fill upgrade is obviously essential in areas of low mains water pressure where the rate of production may not keep pace with the demand. But boosted fill is also very useful even if the mains water pressure is adequate simply to reduce fill times.

The boosted fill upgrade enables filling up to three times faster than mains pressure alone, and this can be a distinct advantage. For example, if you require more water than the vehicle tank can hold (such as for cleaning a large commercial contract), you can set your system to fill as you go. With boosted fill, you will be able to keep pace with demand even if (as may be the case with larger contracts) several pole operators are using the pure water at the same time.

The boosted fill upgrade is so useful, it's no wonder that over 70% of the machines we supply have this feature.

STAINLESS STEEL HOUSINGS



Standard polymer filters are upgraded to high-pressure stainless steel. This enables the reverse osmosis system to operate at even higher pressures, resulting in greater efficiency and faster pure water production.

All reverse osmosis systems perform better at higher pressures. This is because the process depends on a pressure differential on either side of the membrane.

In order to operate at peak efficiency, a high input of around 120psi is required.

The high-quality booster pump we use is capable of developing this pressure, but it requires the use of our high-pressure stainless-steel filter housings.

Designed specifically for use on our boosted RO systems, our stainless steel housings are able to withstand working pressures of up to 180 psi. They are second to none in terms of quality, robustness and strength.

We're so confident in the uncompromising quality of our stainless-steel housings that they are covered under a comprehensive 10-year warranty.



TURN UP THE HEAT



With the Thermopure™ upgrade, you unleash unbeatable cleaning power of Heated Pure Water!

Everyone knows that hot water cleans better than cold. Heated ultra pure water is less dense and so absorbs dirt more readily and dries more quickly to an incredible finish.

Breezes through initial cleans and shifts even the most stubborn residues. Great in Winter but equally useful in Summer when cold water would turn to steam on sun-baked glazing. If you demand the best then Thermopure™ is for you!

Thermopure™ heaters use diesel from either the vehicle's fuel tank or a separate remote tank that can be filled with red diesel for economy. The highly efficient heat exchanger lifts the temperature quickly up to 80 degrees. Water in the tank can be

preheated while on the move, or be heated at point of use.

In a "time is money" business a little snow and ice can freeze your assets and stop you earning. When cold waterfed pole systems freeze to a stand still, Ionic Systems' Thermopure™ delivers heated pure water and fantastic cleaning results. In Poland Thermopure™ customers routinely work in temperatures as low as -15°C.

The next time you try to use a waterfed pole in freezing conditions imagine the luxury of Thermopure™ heated water warming your hands.

Lost days mean lost income and falling behind on your program of work. During the summer months Thermopure™ outperforms on initial cleans, hot tinted glazing, cladding and fascia surfaces.

Hot Water Adds Cleaning Power and Cold-Weather Capability



Convert Your Cold System with The Thermopure™ HotBox™!

The Thermopure™ HotBox™ allows a cold water system to be upgraded to hot water. The HotBox™ uses the same diesel burners as our Thermopure™ systems, and are capable of supplying hot water within minutes of activation.

The 9kW HotBox™ has a winter/summer setting, and is powerful enough to provide piping hot water all year round.

The HotBox™ allows a Cold Water System to be Converted to Hot Water



The HotBox™ can be fitted to any cold-water system (as long as there is room in the vehicle) and can be fed from the vehicle's diesel tank, or a separate tank.

HotBox	Price
HotBox 3kW	£4,000
X5-S System	£4,750



STATIC & DELIVERY SYSTEMS

Static & Delivery Systems

For businesses that have (or plan to have) several window cleaning vehicles on the road, a fleet solution will be the right choice. This option separates the system into two distinct parts; The static system and the delivery system.

The static water treatment system is installed in a permanent location (usually an industrial unit, garage or outhouse) that continually fills one or more large tanks with pure water.

The stored pure water is then transferred into the tank of a "delivery system" which is installed in a van or trailer. Delivery systems are designed just to 'deliver' the pure water, i.e. they have little or no water treatment onboard, but have the same crash-tested chassis and control gear as our other systems.

The Thermopure™ delivery system can heat the water using a diesel burner before pumping it to the pole, and is our most popular delivery option.

THE IDEAL SOLUTION FOR THE MULTI-VEHICLE OPERATOR

BUILD YOUR OWN WATER TREATMENT SYSTEM

A SYSTEM TAILORED TO YOUR NEEDS

The modular design of our filters means that you can build your own wall-mounted static system, incorporating only the filters you need.

This modular, wall-mounted system allows a high degree of flexibility, allowing you to simply add filter stages as and when required.

Need more pure-water production? Simply add in another RO unit. Want more efficient production? Just add in a water-softening filter.

The modular nature of the system allows it to grow with your needs. You can even upgrade the plastic filters to high-pressure stainless steel to allow even greater production rates.



ZERO & V4 STATIC SYSTEMS

The advanced technology and features of the Zero are also available as a static system. With automated softener regeneration cycle, on-board salt reservoir and automated timed RO flush, the Zero static is both highly efficient and easy to use. Up to seven stages of water treatment and the capability of producing water to zero parts per billion, the Zero static is one of the most advanced static systems available anywhere.

The V4 Static system is simplicity itself. 4-stage water treatment comprises Carbon, Sediment, Reverse Osmosis and De-ionising filters. A workhorse static system capable of producing millions of litres of pure water economically.

Both Zero and V4 Static systems can be upgraded to fast-fill with booster pumps and high-pressure stainless-steel filter housings.

DELIVERY SYSTEMS

With no on-board water treatment, delivery systems are filled with pure water from a static system. Delivery systems are also ideal for those who live in soft-water areas and only require simple De-ionisation as water treatment.

The Thermopure™ delivery system uses a powerful 9kW diesel heater to heat the water as it's delivered to the pole.

The diesel heater can be fed from the vehicle's own tank or a separate remote tank.



Cold Water Delivery System



Thermopure™ Delivery System

Cold Water Delivery Systems	Machine Only	3-Year Finance	5-Year Finance
Cold Delivery 300 Litres	£2,395	£86.22	£57.48
Cold Delivery 400 Litres	£2,495	£89.82	£59.88
Cold Delivery 500 Litres	£2,995	£107.82	£71.88
Cold Delivery 600 Litres	£3,195	£115.02	£76.68
Cold Delivery 700 Litres	£3,295	£118.62	£79.08
Cold Delivery 800 Litres	£3,795	£136.62	£91.08
Cold Delivery 900 Litres	£3,895	£140.22	£93.48
Cold Delivery 1,000 Litres	£3,995	£143.82	£95.88

Thermopure™ Delivery Systems	Machine Only	3-Year Finance	5-Year Finance
Hot Delivery 500 Litres	£8,275	£297.90	£198.60
Hot Delivery 600 Litres	£8,395	£302.22	£201.48
Hot Delivery 700 Litres	£8,495	£305.82	£203.88
Hot Delivery 800 Litres	£8,995	£323.82	£215.88
Hot Delivery 900 Litres	£9,195	£331.02	£220.68
Hot Delivery 1,000 Litres	£9,295	£334.62	£223.08

TANK SAFETY

THE SAFETY STANDARDS WE ALL EXPECT

Waterfed pole systems require that a supply of pure-water be taken to the work-site, wherever that may be. The water is held in a large holding tank, often holding 600 or 1,000 litres of pure water - enough to last the window cleaner all day.

However, transporting this large tank of water is potentially very dangerous. Water is heavy, with 1,000 litres of water weighing one tonne. If the vehicle were to be involved in a traffic accident, there is a real danger that this very heavy water tank could break loose and cause severe injury to the driver and passengers of the vehicle.

It is for this reason that Ionic Systems commissioned an independent crash-testing programme at Thatcham Research, one of the UK's leading vehicle crash-testing centres.



Severe Front-End Damage
The severity of the test can be easily seen from the amount of damage to the front-end of the vehicle. When designing the steel chassis, it is essential that the energy of the moving tank is absorbed, not simply transmitted to the vehicle.

Immovable Barrier
To comply with the FMVSS-208 standard, the vehicle must be crashed at 30mph into a solid, immovable barrier.

Energy-Absorbing Chassis
It's not enough to simply make sure the tank stays anchored. It's also crucial to make sure that the energy is absorbed. As can be seen, the steel chassis is designed to deform and buckle on impact (just like the crumple-zone of a vehicle) in order to dissipate the energy.

Crash Test Dummy
A standard crash-test dummy was used to accurately assess the potential injuries to the driver.

Advanced Tank Baffling
At the time of the test, Ionic used white polyethylene tanks. Now we use black polypropylene as it inhibits the growth of algae in the water. It is also more thoroughly baffled to improve vehicle stability.

100% BARRIER IMPACT TEST AT 30MPH



REACHING THE STANDARD



HYPER-G SLED TESTS
As part of the programme of testing, we conducted four "development" tests using Thatcham's Hyper-G Sled, which simulates a crash impact. This is very useful for identifying weak points in a system and addressing them in preparation for the 100% barrier impact test.

While sled tests are useful, they only simulate a crash impact. The only real

way to know how a machine will actually perform in a crash is, not surprisingly, to crash it! That is why the FMVSS-208 standard requires a 100% barrier impact test for compliance, and not simply sled test crash simulations.

LEFT: Thatcham Research's Hyper-G Sled Ready for crash simulation testing.

RIGHT: Ionic's 4th Hyper-G Sled at 30mph. The chassis can clearly be seen absorbing the energy of the tank by deforming, exactly like a crumple-zone.



CRASH-TESTING



Taking your safety seriously

As a result of our crash-testing programme, we have developed our systems so that they will stay firmly anchored to the vehicle in the case of a crash. But simply 'staying put' is not enough.

The massive weight of the water has kinetic energy that must be dispersed safely. If the chassis were rigid steel, that energy would be transmitted through to the body of the vehicle, making any collision substantially more severe at the front-end. This, in turn, could cause severe injury to the driver and passengers.

The chassis of Reach & Wash systems is specifically designed to absorb that kinetic energy. It safely anchors the tank, but it also buckles and deforms, (exactly like the crumple-zone of a vehicle) thereby safely dissipating the energy.



OUR MACHINE SECURING CLAMPS HAVE BEEN INDEPENDENTLY TESTED TO WITHSTAND TEN TIMES THE FORCE THEY WOULD BE SUBJECTED TO IN A TYPICAL COLLISION.

Compliance with the FMVSS-208 Standard

Ionic Systems remains the ONLY supplier of this type of equipment to hold FMVSS-208 certification for our systems, both for our Reach & Wash® systems and our Pure2o brand.

Not only does this mean peace of mind, it also means you can stay on the right side of the law. Every year, hundreds of motorists are prosecuted because the load they are carrying invalidates their insurance.

We can provide you with documentary evidence that the installation is professional, safe, and in compliance to the Road Traffic Act and established safety standards.



IONIC SYSTEMS REMAINS THE ONLY SUPPLIER OF WATERFED POLE SYSTEMS TO COMPLY WITH THE FMVSS-208 STANDARD

QUATTRO™



High Pressure Stainless-Steel Housings
The Quattro-S has stainless housings to enable an even better production rate.

10 YEAR WARRANTY
Stainless Steel Chassis and Filter Housings are covered by our 10-Year Warranty

QUATTRO™ Electric

Mains Powered Pump
A powerful mains-powered pump enables an excellent production rate.

QUATTRO™-S

Quattro™ Specification

- 4-Stage Water Treatment:
 1. Carbon Filter - Removes Chlorine, protects RO membrane.
 2. 5 Micron Filter - Removes impurities larger than 5 microns
 3. RO Filter - Mechanically filters water, rejects up to 98% of remaining impurities.
 4. DI Filter - Polishes water to zero parts per million purity
- Shut-off Valve
- Automatic dry-run protection

Quattro™ Electric also has

- Mains powered Water Pump
- Automatic dry-run protection
- Pressure gauge

Quattro™-S also has

- High-Pressure Stainless Steel Filter Housings for increased RO Pressure and greater water-production.



Quattro™ Systems are ideal for use in abseiling and cradle cleaning.

Quattro™

Robust On-Demand System

The Quattro™ is the best point of use system for a wide variety of Window, Solar Panel and Hard Surface exterior cleaning applications. The tough, compact design and ease of use makes the Quattro the number one choice for work in any area where both mains water and electricity are available (a generator can also be used).

Window Cleaners make use of the Quattro™ to access remote parts of modern buildings such as court-yards and roof tops for atrium cleaning. High-rise buildings where suspended platforms are used as well as the abseiling technique also benefit from short waterfed pole cleaning from rooftop Quattro use. On-site building maintenance teams also use the Quattro for in-house window and façade cleaning duties as well as spot-free car washing.

The Quattro™ is available in three configurations. The standard Quattro works from water pressure alone (min 60psi), and is suitable for a single operator to use at lower levels.

The Quattro™ Electric uses a 240V (or 110V) pump to boost the water pressure, and can be used to clean to 80ft for a single operator, or lower heights for multiple operators.

The Quattro 'S' model is designed for high performance in the Worlds most demanding environments. Plastic filter housings may be prone UV degradation and to failure in temperatures above 30C. The 'S' model features high-pressure stainless steel filter housings that can withstand temperatures in direct sunlight of up to 50C. Because the pressure is boosted even further, the Quattro 'S' can be used by several operators up to 80ft.

- 1 Carbon Filter, Removes Chlorine, protects RO membrane.
- 2 5 Micron Filter - Removes impurities larger than 5 microns.
- 3 RO Filter- Mechanically filters water rejects up to 98% of remaining impurities.
- 4 DI Filter - Polishes water to zero parts per million purity.

* In hard water areas an in-line water softener is recommended to remove harmful calcium. If not removed from the water supply calcium causes poor performance and premature failure of the RO filter membrane.

Ordering & Prices	Price	3-Yr Lease
Quattro System	£1,875	£67.50 pcm
Quattro Electric System	£3,125	£112.50 pcm
Quattro-S Electric System	£4,375	£157.50 pcm

STAINLESS STEEL HOUSINGS FOR HIGHER PRESSURE



SUPERB WATER PRODUCTION NO MATTER HOW LOW THE MAINS PRESSURE

The standard Quattro™ has a powerful mains powered pump to boost the pressure to the RO membrane. This means it is capable of producing a good supply of pure water ready for use no matter what the local water pressure is. This is particularly useful for a mobile system as mains water pressure may vary greatly from one area to another.

The Quattro™-S is fitted with our high-pressure stainless steel filter housings, that enable the reverse osmosis membrane to operate at it's optimal pressure. The result is dramatically improved production rate.

The stainless steel housings of the Quattro™-S are so robust, they are covered by a 10-year warranty.

Both Quattro™ versions require mains power and a water supply.

THE QUATTRO RANGE IS THE PERFECT SOLUTION FOR SITES WHERE THERE IS ACCESS TO A WATER AND POWER SUPPLY



Stainless Steel Chassis and Filter Housings are covered by our 10-Year Warranty

X5™



Dual TDS Meter
Active monitoring of water purity after RO and DI filters

De-mountable System for On-Site Water Production

The X5™ is a de-mountable truck-mount Reach & Wash System. The tough, compact design can be installed and removed quickly and easily in any commercial vehicle fitted with tie-down points in the load area.

Ideal for exterior window cleaning, solar panel and façade cleaning at any site where there is ready access to both mains water and power. For sites without power, a 3.5kw generator may be used instead.

The X5™ features 4-stage water treatment

The X5™ is available in both 240v and 110v options. An hour's meter is fitted so that filter life can be monitored. Four filters are fitted to process mains water into pure water for cleaning.



X5™ Specification

- Mains Powered Pump
- 4-Stage Water Treatment:
 1. Carbon Filter - Removes Chlorine, protects RO membrane
 2. 5 Micron Filter - Removes impurities larger than 5 microns
 3. RO Filter - Mechanically filters water, rejects up to 98% of remaining impurities.
 4. DI Filter - Polishes water to zero parts per million purity.
- Pressure gauge.
- Automatic dry-run protection

X5-S also has

- High-Pressure Stainless Steel Filter Housings for increased RO Pressure and greater water-production.



The X5-S has high-pressure stainless steel filter housings, and is covered by a 10-year warranty.

Ordering & Prices	Price	3-Yr Lease
X5 System	£3,545	£127.62 pcm
X5-S System	£5,125	£184.50 pcm

STAINLESS STEEL FILTERS FOR HIGHER PRESSURE



SUPERB WATER PRODUCTION NO MATTER HOW LOW THE MAINS PRESSURE

The standard X5™ has a powerful mains powered pump to boost the pressure to the RO membrane. This means it is capable of producing a good supply of pure water ready for use no matter what the local water pressure is. The X5-S is fitted with our high-pressure stainless steel filter housings, that enable the

reverse osmosis membrane to operate at it's optimal pressure. The result is dramatically improved production rate.

The stainless steel housings of the X5-S are so robust, they are covered by a 10-year warranty.

Both X5™ versions require mains power and a water supply.

TASK™

Portable 75 or 95 Litre Mobile Trolley

The Task™ Trolley is perfect cleaning tasks in areas that have no access to water or hoses such as courtyards, atria and so on, or where trailing hoses cannot be used.

The Task™ is also extremely useful for areas with restricted parking such as residential properties, busy high streets, city centres etc.

With a generous 75 or 95 litre capacity (enough for 1½ to 2 hours of working time), the Task™ has an on-board battery and it's own 100 psi pump with auto-compensating flow controller.

We offer a fast-fill option to van-mount options.

It is easily filled with pure water and then wheeled to wherever its needed.

What could be simpler?

Task™ Trolley Specifications:

- 75 or 95 Litre integral pure-water tank
- 100psi Pump
- Auto-Compensating Flow Controller
- 12V Battery

All TASK™ trollis are supplied with a 12v mains battery charger.



Ordering & Prices	Price	3-Yr Lease
Tasker 75- Litre Trolley	£1,800 (introductory price)	£64.80pcm
Tasker 95- Litre Trolley	£2,000 (introductory price)	£72.00pcm

WATERFED POLES

SIMPLY THE
BEST POLES
YOU CAN BUY



THE RIGHT POLE FOR YOU

The waterfed pole is the business end of the Reach & Wash® system. It's the pole that you work with hour after hour, day in, day out.

For most comfortable use, the pole should be as light, as thin and as stiff as possible. For ease of use, it should also be as short as possible when collapsed.

We have produced three families of poles, each with their own characteristics and each suited to a certain type of work.

GRAFTER™ 17ft - 32ft (See page 34)
Carbon-glass fibre mix poles, ideal for residential work up to about 25ft, with the occasional need to reach a little higher. A very short collapsed length means ease of use at ground level.

GLYDER™ 25ft - 40ft (See page 35)
Carbon fibre poles with excellent rigidity and lightness, as well as a short collapsed length. Great for residential and low-rise commercial where a 30-40ft reach is needed regularly. A real workhorse, for use all day, every day. Now with high-modulus "Plus" version.

SWIFT™ 45ft - 80ft (See page 37)
Carbon poles with unsurpassed rigidity and lightness. With extremely closely engineered tolerances between sections, the Swifts are designed specifically for medium to high-level commercial work. Very narrow handle sections make this pole comfortable to use even for prolonged periods. Now with high-modulus "Plus" version.

Closed Lengths

SWIFT™
2.34 metres*

GLYDER™
1.99 metres

GRAFTER™
1.6 metres

*The 45-65ft Swift poles are 2.34m collapsed. The 80ft Swift is 3.4m when collapsed.



Mini Pole (9ft)
(perfect for abseiling & cradle work)



SWIFT™
45FT - 80FT

GLYDER™
25FT - 40FT

GRAFTER™
17FT - 32FT



GRAFTER™
17ft, 21ft, 24ft, 28ft and 32ft poles

GLYDER™
25ft, 30ft, 35ft and 40ft poles

SWIFT™
45ft, 55ft, 65ft and 80ft poles

“Simply the best poles available”

THE GRAFTER™

17FT TO 32FT REACH

- Ideal Residential Pole
- Glass-Carbon Mix
- Low Cost yet Highly Durable
- Very Short Collapsed Length

The Grafter™ pole family has been carefully designed with the residential window cleaner in mind. With an amazingly short closed length of just 1.6m, the Grafter will fit into even the smallest of window cleaning vehicles with ease.

But despite its compact dimensions, the Grafter™ can reach up to 32ft, and thanks to the glass- carbon mix, still remains remarkably rigid, even at this height. And because of the carbon content

Hard wearing, low cost and compact in size, the Grafter™ is simply the ideal residential pole!



9ft Mini Pole
2-section extendable pole. Ideal for ground floor windows, cradle and abseiling work. Extends to 5.3ft (1.6m) Reaches to 9ft (2.74m).

9ft Mini Pole
P0594 9ft Mini Pole

Residential Head
Non-curling monofilament nylon bristles and adjustable angle crank.

Non-Kinking Pole Hose
Hard wearing yet flexible, Ionic non-kinking pole hose reduces snagging and catching.

Transverse Clamps
Lighter and smaller, Ionic transverse clamps are fully adjustable and can be made left or right-handed

Carbon-Glass Mix
The carbon-glass mix is a good balance between rigidity and lightness, and the carbon gives added durability.

Short Collapsed Length
At just 1.6m when collapsed, the Grafter is easy to use at ground level, and is readily stored even in smaller vehicles.

Narrow Handle Sections
Easy to handle, even for all day use

Improved Finish
New improved hard-wearing surface finish

Plastic Butt Ring
To protect the foot of the pole against damage and prevent splintering.

GRAFTER™ Waterfed Poles	Reach Length		Sections	Extended Length		Collapsed Length		Approx Weight	Handle Diameter	Price	3-Year Lease
	ft	m		ft	m	ft	m				
Grafter-17	17ft	5.18m	3	13ft 5in	4.09m	5ft 3in	1.6m	1.44 Kg	29.6 mm	£125	£5.05 per month
Grafter-21	21ft	6.40m	4	17ft 5in	5.29m	5ft 3in	1.6m	1.80 Kg	32.6 mm	£150	£6.06 per month
Grafter-24	24ft	7.32m	5	21ft 1in	6.44m	5ft 3in	1.6m	2.19 Kg	35.5 mm	£175	£7.07 per month
Grafter-28	28ft	8.53m	6	24ft 9in	7.56m	5ft 3in	1.6m	2.58 Kg	38.6 mm	£215	£8.69 per month
Grafter-32	32ft	9.75m	7	28ft 4in	8.63m	5ft 3in	1.6m	3.01 Kg	41.6 mm	£250	£10.11 per month

Note: The minimum amount that can be financed on a 3-year lease is £250 (excl VAT). Although it is not possible to finance individual products costing less than this, several products may be grouped together. As long as the combined value is greater than £250, they can be financed as a bundle.

All pole weights and lengths include the brush-head, pole hose and angle-crank

Residential or Commercial Head
Either the adjustable residential head or the larger, commercial head can be supplied with the Glyder. Both have non-curling monofilament nylon bristles.

Non-Kinking Pole Hose
Hard wearing yet flexible, Ionic non-kinking pole hose reduces snagging and catching.

Transverse Clamps
Lighter and smaller, Ionic transverse clamps are fully adjustable and can be made left or right-handed

Carbon-Fibre
Full carbon pole for greater rigidity and durability, with high-modulus PLUS version.

Narrow Handle Sections
Easy to handle, even for all day use

THE GLYDER

25FT TO 40FT REACH

- Full Carbon for Superb Rigidity
- Lightweight and Durable
- Short Collapsed Length of 1.99m
- Residential or Commercial Head
- Tougher and Stiffer "PLUS" version

The Glyder is a best-selling pole for a simple reason; it is very rigid, lightweight and easy to use.

The excellent rigidity makes the Glyder the pole of choice for cleaning at awkward angles, easily reaching over obstacles while remaining fully controllable.

Like all Ionic poles, the Glyder is built to last, and the high-grade carbon fibre means the pole is extremely tough and robust.

The perfect balance between rigidity and lightness, the Glyder is the ideal pole for those who regularly work at 30-40 feet. Comfortable to use all day, every day.

The "PLUS" version has even higher grade carbon, for better rigidity and toughness.

All pole weights and lengths include the brush-head, pole hose and angle-crank

GLYDER™ Waterfed Poles	Reach Length		Sections	Extended Length		Collapsed Length		Approx Weight	Handle Diameter	Price	3-Year Lease
	ft	m		ft	m	ft	m				
Glyder-25	25ft	7.62m	4	21ft 8in	6.6m	6ft 2in	1.99m	2.02 Kg	32.6 mm	£310	£12.53 per month
Glyder-30	30ft	9.14m	5	26ft 7in	8.1m	6ft 2in	1.99m	2.45 Kg	35.5 mm	£375	£15.16 per month
Glyder-35	35ft	10.67m	6	31ft 2in	9.5m	6ft 2in	1.99m	2.96 Kg	38.5 mm	£425	£17.18 per month
Glyder-40	40ft	12.19m	7	35ft 9in	10.9m	6ft 2in	1.99m	3.39 Kg	41.6 mm	£500	£20.21 per month
Glyder PLUS 30	30ft	9.14m	5	26ft 7in	8.1m	6ft 2in	1.99m	2.45 Kg	35.5 mm	£550	£22.23 per month
Glyder PLUS 35	35ft	10.67m	6	31ft 2in	9.5m	6ft 2in	1.99m	2.96 Kg	38.5 mm	£635	£25.67 per month
Glyder PLUS 40	40ft	12.19m	7	35ft 9in	10.9m	6ft 2in	1.99m	3.39 Kg	41.6 mm	£750	£30.32 per month

Glyder™ poles are fitted with residential heads as standard, but can be upgraded to commercial heads for an additional £100. (The commercial head adds approximately 260g to the weight of the pole)

Plastic Butt Rings
To protect the foot of the pole against damage and prevent splintering.

Pole Rigidity Comparisons

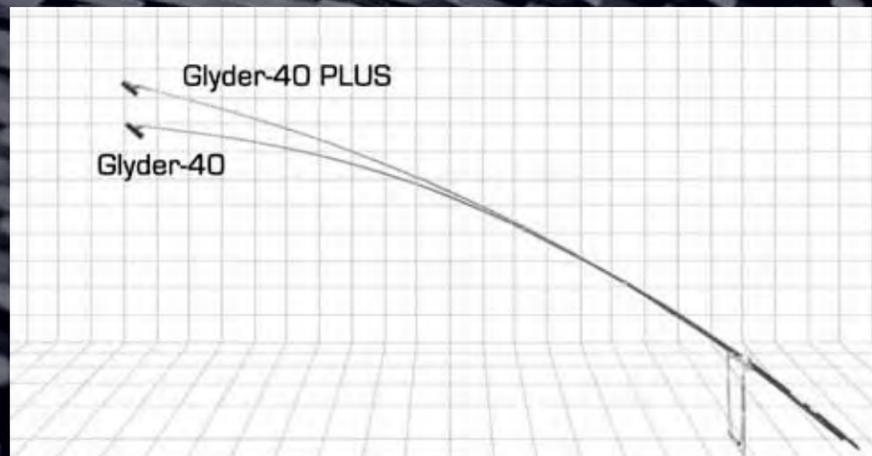
The more rigid a pole is, the easier it will be to use. To help show the differences between our pole range, we extended them next to one another and photographed the results.

The "PLUS" ranges have a higher grade of carbon fibre, and are therefore stiffer. This effect can clearly be seen in the images below.

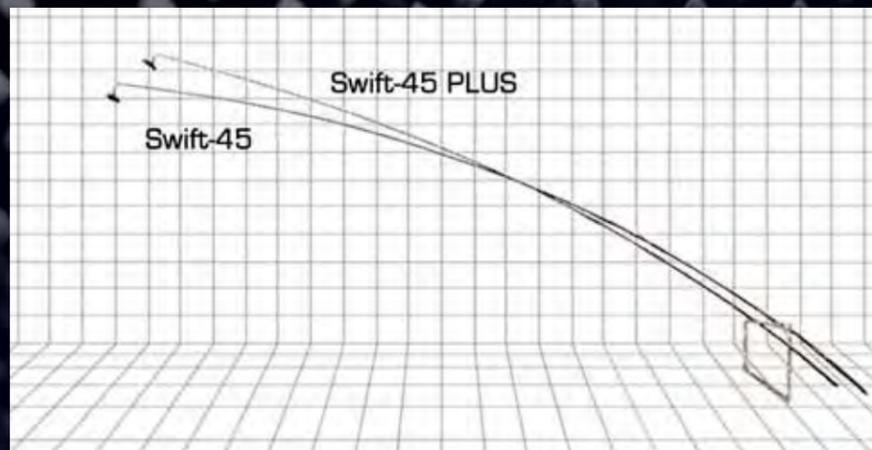
Grafter™ 32
vs
Glyder™ 30
vs
Glyder™ 30 PLUS



Glyder™ 40
vs
Glyder™ 40 PLUS



Swift™ 45
vs
Swift™ 45 PLUS



Commercial Head

The Ionic commercial head is extremely robust and optimized for commercial window cleaning. Available in 12", 18" or 24" widths and a variety of gooseneck lengths

Non-Kinking Pole Hose

Hard wearing yet flexible, Ionic non-kinking pole hose reduces snagging and catching.

Transverse Clamps

Lighter and smaller, Ionic transverse clamps are fully adjustable and can be made left or right-handed

Carbon-Fibre

Full carbon pole for greater rigidity and durability, with high-modulus PLUS version.

Narrow Handle Sections

Very comfortable to use, the narrowness of the handle sections means less ache on your forearms.

THE SWIFT™

45FT TO 80FT REACH

- Full Carbon for Superb Rigidity
- Lightweight and Durable
- Narrow Handle Diameter for Ease of Use
- Commercial Head
- Tougher and Stiffer "PLUS" version

To clean at heights of 50, 60 and even 80 feet, a very special pole is needed. The SWIFT range has been specially designed to meet the needs of cleaning at these heights.

The Swift™ pole has unrivalled rigidity, and is the only composite telescopic pole available that can clean to 80ft.

But this outstanding rigidity has not come at the cost of weight or size. Thanks to a specially developed thermoplastic toughened matrix system (TMS), the Swift range is remarkably light-weight for such long-reaching poles and have amazingly narrow handle sections.

It is no surprise then, that window cleaners all over the world are using Swift™ poles to clean where previously only hydraulic platforms and abseiling techniques could reach!

All pole weights and lengths include the brush-head, pole hose and gooseneck

Swift™ Waterfed Poles	Reach Length		Sections	Extended Length		Collapsed Length		Approx Weight	Handle Diameter	Price	3-Year Lease
	ft	m		ft	m	ft	m				
SWIFT-45	45ft	13.72m	7	40ft 8in	12.4m	7ft 7in	2.34m	4.20 Kg	32.6 mm	£750	£30.32 per month
SWIFT-55	55ft	16.76m	9	51ft 2in	15.6m	7ft 7in	2.34m	5.56 Kg	47.6 mm	£1,000	£40.42 per month
SWIFT-65	65ft	19.81m	11	60ft 8in	18.5m	7ft 7in	2.34m	6.72 Kg	55.0 mm	£1,250	£50.53 per month
SWIFT PLUS-45	45ft	13.72m	7	40ft 8in	12.4m	7ft 7in	2.34m	4.20 Kg	41.6 mm	£1,125	£45.47 per month
SWIFT PLUS-55	55ft	16.76m	9	51ft 2in	15.6m	7ft 7in	2.34m	5.56 Kg	47.6 mm	£1,500	£60.63 per month
SWIFT PLUS-65	65ft	19.81m	11	60ft 8in	18.5m	7ft 7in	2.34m	6.72 Kg	55.0 mm	£1,875	£75.79 per month
SWIFT PLUS-80	80ft	24.38m	10	76ft 1in	23.2m	11ft 2in	3.4m	8.49 Kg	47.0 mm	£3,125	£POA

Swift poles are fitted 18" commercial heads as standard, but can be fitted with either 12" or 24" heads instead. They can also be fitted with "SwapTop" heads, allowing residential brushes and even traditional tools to be attached.

Metal Butt Rings

To protect the foot of the pole against damage and prevent splintering.

QUALITY HOSE REELS



Stainless Steel
Ionic hose-reels are made from stainless steel. They do not rust, no matter if they are left outside.

High Capacity
The standard reel holds up to 100 metres of Ionic RX Hose (or other "microbore" type hose) or 50 metres of 1/2-inch hose. The larger reel holds twice as much.

Guide Bar
When placed in the horizontal position, the reel is very stable and the guide bar enables neat and tidy hose storage.

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.



Floor-mounted reels are perfect for efficient waterfed poling.

SIMPLY THE BEST HOSE REEL YOU CAN BUY

Hose reels used in the window cleaning industry have a demanding life. Not only are they used continuously, but they are usually exposed to the elements. Constant lifting, reeling and unreeling, moving in and out of vehicles, wheeling up and down kerbs and dramatic fluctuations in temperature. It's no wonder that most other hose reels commonly used by window cleaners rarely last even a year.

But unlike other reels, our hose reel has been specifically designed for this type of work, and incorporates several innovations to enable superior performance and reliable use.

It seems obvious that a metal reel that will be continually exposed to water, moisture and weather should be made of a material that doesn't rust. Plastic reels do not rust, but are simply not robust enough for window cleaning work. The only material suitable is Stainless Steel.

Incredibly strong and completely corrosion free, stainless steel is an expensive material and takes great skill to weld and form correctly. While the use of this remarkable metal pushes up the price of the product, we make no apologies for refusing to compromise on our use of stainless steel, and those who buy our reels quickly understand why.

We're so confident that our stainless steel hose reels will stand the test of time, we cover it with a comprehensive 10 year warranty.



STANDARD REEL

Holds up to 100 metres of Ionic RX hose (or a similar quantity of other microbore or minibore hose). Holds up to 50 metres of 1/2-inch hose. (Supplied without hose)



LARGE REEL

Holds up to 200 metres of Ionic RX hose (or a similar quantity of other microbore or minibore hose). Holds up to 100 metres of 1/2-inch hose. (Supplied without hose)



FLOOR MOUNT REEL

Holds up to 100 metres of Ionic RX hose (or a similar quantity of other microbore or minibore hose). Holds up to 500 metres of 1/2-inch hose. (Supplied without hose)

ATTENTION TO DETAIL



ROCK STEADY

When laid in the horizontal position, the reel offers unrivalled stability, preventing it falling over when the hose is pulled.

The drum stays well clear of the ground and a steel guide bar allows neat and tidy hose storage.



IN-LINE CONNECTOR

A robust connector joins the reel to the hosepipe, that is situated so that it complements (rather than interferes with) the hose storage on the spindle.

The connector itself is shaped so that the hose is not bent or stressed when connected, therefore improving water flow and reliability.



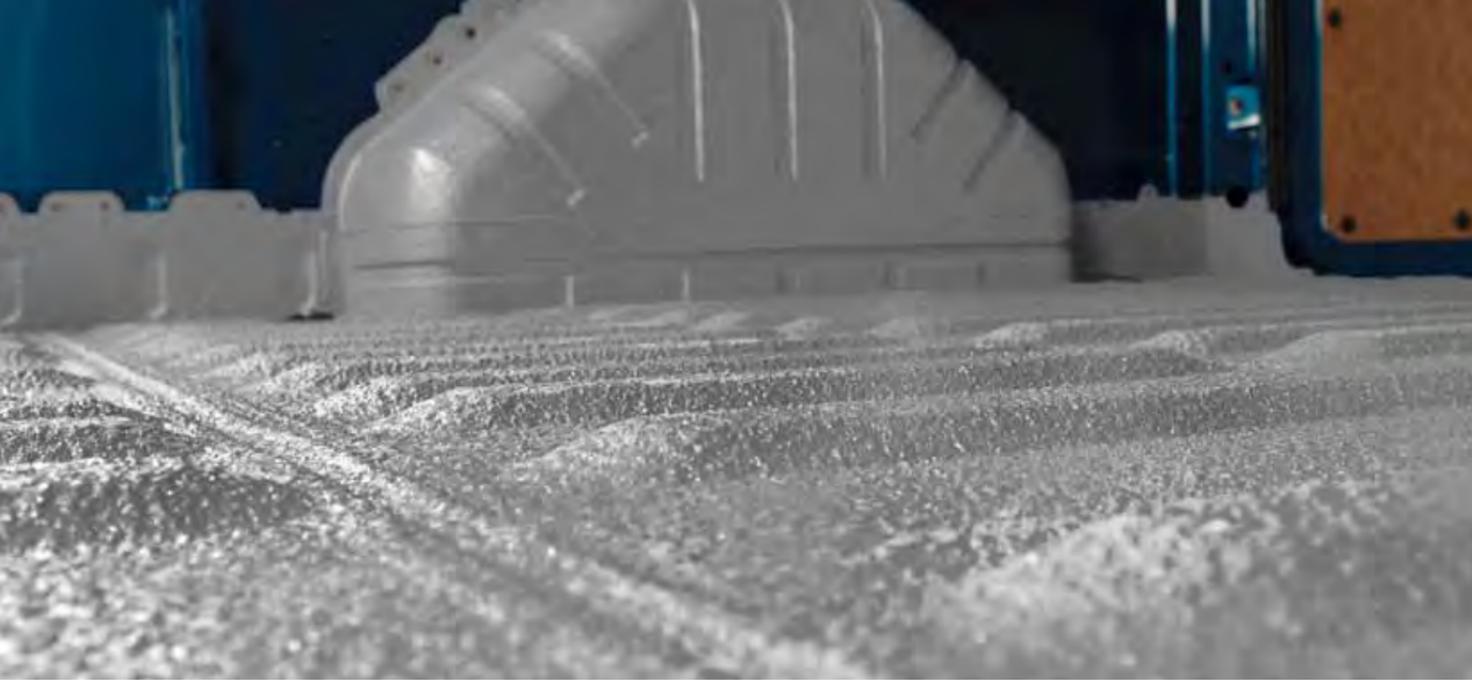
IONIC RX HOSE

With just 8mm internal diameter, Ionic RX hose is much lighter and easier to handle than 1/2-inch hose.

Heat-tested and suitable for hot water use.

Hoses and Hose Reels

	Price
Ionic Stainless Steel Standard Reel	£300.00
Ionic Stainless Steel Large Reel	£365.00
Ionic Stainless Steel Floor Mount Reel	£300.00
Ionic RX Hose 100 metres (8mm ID)	£75.00
Fitting for RX Hose to 1/2-inch QR	£16.25
Claber RX Female Hose Fitting	£7.25



Vehicle Floor Protection

Robust Vehicle Flooring

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.

Floor protection can be applied to almost any vehicle, and is so robust that it lasts for years.



CONTACT US

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 facebook.com/ionicsystems

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You can also purchase our products from one of our distributors (both in the UK and overseas) To find a distributor near you, go to www.ionicsystems.com or contact us on +44 (0) 1793 871 386

Terms & Conditions of Sale

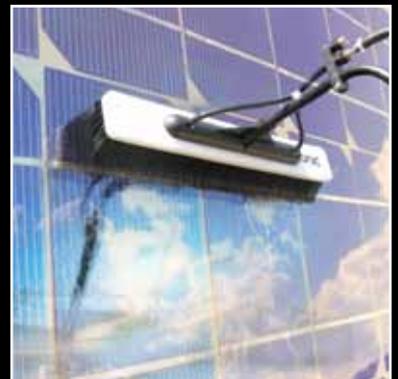
- 1 All prices are exclusive of VAT. VAT will be added to all orders at the standard rate.
- 2 Goods ordered by 2pm will usually be dispatched for overnight delivery.
- 3 Minimum order value for free delivery (mainland UK only) is £350 excluding VAT*
- 4 Customers are responsible for checking deliveries before signing for them. Claims for damaged or missing items will not be entertained after the delivery has been signed for.
- 5 For account customers, payment is due on the 30th day following the invoice date. If payment has not been received after 45 days the debt shall be automatically referred to an agency for recovery.
- 6 A restocking charge of a minimum of 15% will apply for unwanted goods that are returned in undamaged condition in the original packaging.
- 7 Goods remain the property of Ionic Systems Ltd until paid for in full.
- 8 Prices and specifications are subject to change without notice
- 9 Errors and omissions excepted.

*Reach & Wash systems and waterfed poles are excluded from the free delivery offer. The phrase "Reach and Wash" and the Reach & Wash symbol are registered trademarks of Ionic Systems Ltd
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Lease rates quoted are for indicative purposes only. Actual rates may vary and depend on your personal circumstances. Interest rates are subject to change.



Quality without compromise



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