

visit our warehouse :

galway 30 mins	monivea 5 mins colmanstown	headford 40 mins
loughrea 20 mins	athenry 10 mins	ballinasloe 30 mins



winter/spring 2015



Price - any quote beaten or we match price and offer better products, better warranty and better service

US importers - Clack full product stockists we are the largest importers direct from U.S.

Quality products - NSF and WQA Gold from the leading US & European firms

Water specialists - WQA CWS VI the highest certified in Europe

Best kitted vans in Ireland - commercial quality installations

No salesy talk - no nonsense talk to owner direct - get the facts

Low service costs - low running € lowest costs for filters and lamps in galway

Best warranty - lifetime parts and labour options 7 day a week support - 365 day service back-up

colmanstown, co. galway www.gws.ie / www.galwaywater.ie

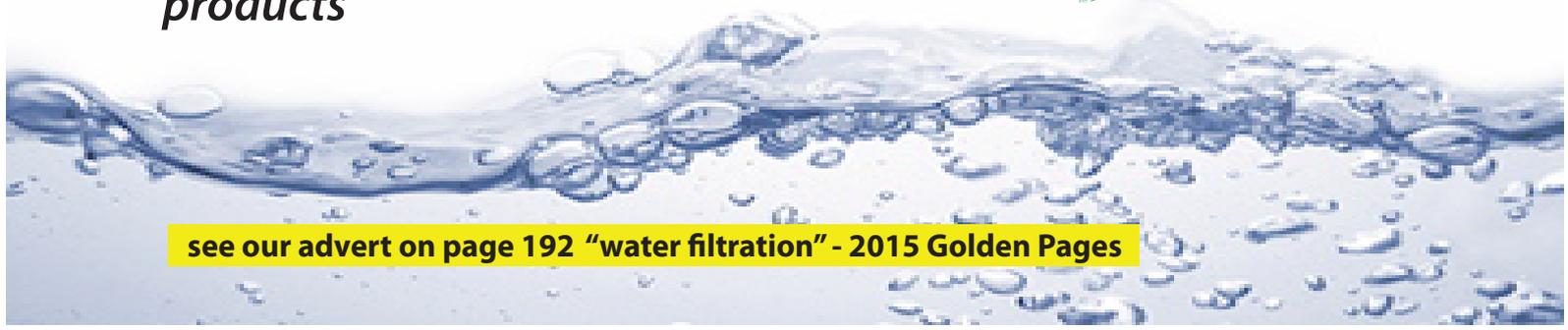
10-call : 1890 222 000 / mobile : 087 333 0333

Water / electric / salt usage - our ultra efficient RO filter systems - as low as €2 per year water usage
 Clack water softeners = €4 per year water use + €1 per year electric use + €7 per year per person salt use

watergroup
products



see our advert on page 192 "water filtration" - 2015 Golden Pages



ultimate quality service

Galway Water guarantee to offer superb quality and value for water treatment. By offering top value and best brands, unbeatable aftersales care and the lowest running and service costs, clients are left delighted.

Most of our sales are gained by client recommendation - we offer the best value and best quality products imported from the US and Europe. see: www.galwaywater.ie



ultimate quality products

Clack Corp. based in the U.S. for 68 years, build the most advanced control valves on the world market. Designed to optimise salt use and monitor water use, they automatically adjust regeneration cycles. see: www.clackcorp.com

Clack WS1 v's
Autotrol 255,
Fleck/Ionics,
Hague,
Canature*
Runxin*



WS1 valves have the best warranty and build quality.

No exposed metal parts - lifetime of rust free service.

Soft water brining - no blocked valves or dirty tanks.

Anti-shear sensor, avoids valve destruction; grit/frost.

Best diagnostics of water use plus full system history.

Euro programming for Euro laboratory analysis data.

Mercedes Benz class electric motor for lifetime reliability.

Clack Corp have been established for nearly 70 years.

Clack easily have the highest reliability of any valve.

Clack	Auto*	Ionics	Hague	Can*	Run*
✓	✗	✗	✗	✗	✗
✓	✗	✗	✓	✗	✗
✓	✗	✗	✗	✗	✗
✓	✗	✗	✗	✗	✗
✓	✗	✗	✓	✓	✓
✓	✗	✗	✗	✗	✗
✓	✗	✗	✗	✗	✗
✓	✗	✗	✗	✗	✗

the best quality assurance

WQA are a "not for profit" water quality body setting the highest industry standards and ethics. NSF are the leading global water product testing organisation. see: www.nsf.com

We were the first WQA Certified Water Specialists in Ireland (level VI) also the highest ranked business in Europe to gain top level WQA Certifications. see: www.wqa.org



the best quality water

It is important for well water testing, that only INAB (Irish National Accreditation Board) laboratories are used and those adhering to EU Drinking Water Directives and Irish EPA guidelines. INAB is the body responsible for Good Laboratory Practice and Euro Audit Schemes. More than often the best value for money. see: www.inab.ie

the best value for money

If clients are able to find any other firms in Galway that compete with our premium quality of service, quality of products, value for money and lowest running costs - we will offer our products for free ...

- 1) best price guaranteed for size / specification of products,
- 2) best product certifications,
- 3) WQA water certifications,
- 4) American factory direct importers and US factory trained staff,
- 5) the most professionally equipped installation vehicles,
- 6) no sales people, no commissions, no contracts, no deposits,
- 7) lowest service costs,
- 8) longest duration of warranty,
- 9) the best quality installations,
- 10) the most efficient system operation and lowest running costs.

These factors will save €1,000's - avoiding inferior products with high running, service and replacement costs. Lowest cost DIY €99 RO and €199 water softeners are available, but cost a massive amount to run and service.

world's best soft water



2,900 to 6,700 ltr per regen

10 x 24
10 x 26
10 x 30

When budget or space is tight use a high capacity compact meter system - up to 90% the efficiency and capacity of taller systems from only **€799**.

ultraviolet



€499 6gpm (package deal)

€799 12gpm (package deal)



world's best RO filter



€299 Aq DIY

€599 Aq *S.E.



see aquaphor.ie

Clack advanced variable regeneration meter control water softeners are designed for all sizes of family house, the widest range of family water use + any water hardness. Commercial grade build quality allows 40 years of domestic use. (20 years commercial).

Using 10 times less water, 1/4 the salt - one bag per person per year, lasting 25 yrs longer, Clack savings are hundred's of euros per year.

(A) €799 Clack WS1Cl control water softener - (5 yr wty)
standard resin, standard salt bin, standard pressure vessel

(B) €849 Lanxess resin, Clack 70 litre salt bin - (10 yr wty)

(C) €899 Lanxess resin, Clack 150 litre salt bin - (10 yr wty)

(D) €999 LX resin, Clk 150 L salt bin, Clack vessel - (20 yr wty)

*massive discounts on top level packages + service spares when pipe / electric / drain is provided to specification

3,750 to 11,200 ltr per regen

10 x 35
10 x 44
10 x 54



clack ws1 : meter valve designed : 2000's

- 1> most advanced 2> long life 3> quietest
4> low cost salt use 5> 10 yearly servicing



the latest technology

cost
€25+
/year

salt

cost
€5+
/year

water

cost
€0
/year

service

inefficient : timer valve designed : 1950's

- 1> least advanced 2> short life 3> noisiest
4> high cost salt use 5> €high annual service



no change from 1950's

cost
€100
/year

cost
€30+
/year

cost
€100
/year

most advanced control ever developed
highest diagnostics, jam/freeze protection



most economic control ever developed
80% less water and service, 70% less salt, €1 electric



most reliable, longest life control valve
5/10 year US manufacturer warranty, over 35 year life



uses 4% to 8% of annual household water
very high efficiency, long predicted regenerations



lithium battery back-up and eprom chip
fully automatic time back up, eliminating callouts



clean water brine circuit technology
10 yearly service, clean brine injector & brine tank



over 50% more silent during backwash
uses anti-cavitation air intake during backwash



fast service, 1 spanner, modular design
modular design with no metal nuts or bolts to rust



Save €200+ per year compared to timer valve

Save €300 per year (cleaning / plumbing bills*)

* allowing for €33 / year running costs - salt, water, electric

a copy of a basic 1950's time based valve
dumb timer unit, designed to eat salt, and die early



the most expensive valve to run and service
500% more water use, 400% more salt use



very low reliability, much shorter system life
possible 1 year warranty, factory location unknown



uses 40% of the annual household water
very low efficiency, short interval timed regenerations



no time backup of mechanical clock timer
frequent re-setting of timer needed after power cuts



dirty water brining design 1950's style
annual service, dirty brine injector, dirty brine tank



very noisy backwashing with no silencer
no anti-cavitation air intake, noisier backwash



difficult to service, spanners / screw driver
ancient design using nuts and bolts prone to rusting



Pay €200+ more per yr. compared to clack valve

Save €50 per year (cleaning / plumbing bills*)

* allow for €250 / yr running costs - salt, water, electric, service

Savings: 1/4 salt use - 4% water use, (€1 electric)



Costs: 4 times salt - 40% water use, (€5 electric)



visit : www.clackcorp.com



no more: clogged shower heads, **no more:** scaled kettles, **no more:** scaled pipework, copper cylinders
much less: hot water heating costs, cleaning & plumber callouts for new electric showers & copper cylinders.

morion : high capacity filter system : 2014

1-3> 5mic-silv/carb/aqualen 4-6> 3mic-silv/carb/aqualen
7> RO 8/9/10> 0.8m silv/carb/aqualen + (0.1mic UF option)

save €490 / yr on bottled water



annual € costs

cost €50 /year	filters	cost €100+ /year
cost €10+ /year	water	cost €20+ /year
cost €0 /year	electric	cost €30+ /year

rrp €400



the most advanced filtering ever developed
highest water quality - double the filtration of any RO



the most economic RO filter ever developed
50% less water, 50% less filter wear, no electric costs



the most reliable, longest life filter system
5 year European manuf. warranty, over 10 year life



no air tank saves 50% water v's old systems
no tank back pressure = very high efficiency



the most compact size "all-in-one" system
dimensions: 8" wide x 17" high x 17" deep



the most consistent flow of any filter system
as water tank empties no loss of flow is noticed



the quietest / silent RO system ever designed
the quietest wide pressure RO system available



fastest filter service, no spanners required
no loss of warranty if you go DIY, save on service calls



Save €90 per year compared to air tank type filter

Save €460 per year (v' bottled water @ €10 /wk *)

* allowing for running costs - with two yearly filter change

Half: filter use - space use - water use, (zero electric)

standard level of basic RO filter water quality
tanks may foul and pumps fail after 3 to 5 year



a much poorer economy of water filtration
double water use, high electric use, high filter cost



lower reliability, usually shorter system life
one year factory warranty, short life filter cartridges



air tank loses "ten-to-one" water to waste
tank back pressure = much lower efficiency



very old / ancient 1970's filter system design
very large, bulky and messy, exposed pipes / wires



declining tap flow as the water tank empties
gradual loss of flow as water is used, litre by litre



noisy electrical pumps, expensive to run
also high cost pump service, also high electric cost



difficult filter service, spanners are needed
possible loss of warranty if you attempt to DIY service



Pay €90 more per year than aquaphor morion

Save €370 per year (v' bottled water @ €10 /wk *)

* allowing for running costs - based on annual filter service call

Double: filter use - space use - water use, (+electric)

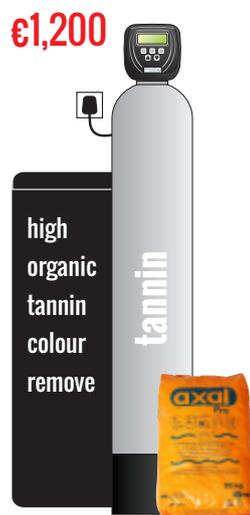
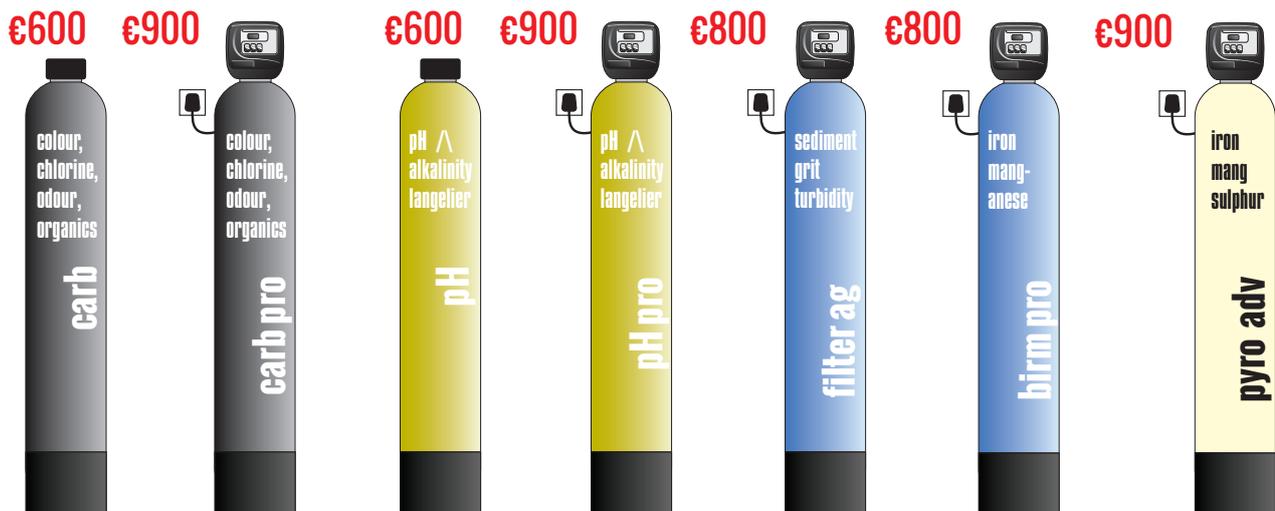


visit : www.aquaphor.ie



no more : scum on tea and coffee, **no more** : bottled water, **no more** : brita filters, **no more** : fridge filters.
no more : chlorine, fluoride, odour, colour, limescale, heavy metals, nitrate, nitrite, tannin, pesticide & bacteria.

specialist systems - wells / springs / rivers / lakes / rain tanks, etc



ultra violet



€499 to €799

hyper filtration

€299 to €599



All systems need to be based on certified water testing to comply with warranty requirements.

sulphur removal

€200 to €2,000



Aeration tanks gas off the rotten egg smell of hydrogen sulphide also allowing oxygen into the water improving precipitation of iron.

Ideal for rebooting poor well pump pressure and effective settlement for iron, sediment and grit reduction. (Sulphide reduction 95%).

Tanks of 300 to 1,000 litres can be used. An air pump fed to a membrane diffuser will effectively gas off the sulphide.

Once vented, the water pressure is lost so a 1 HP water booster pump is needed to re-boost the water pressure.

Raw sulphide levels are often low (<1ppm). For higher levels up to 5ppm, - aeration, Pyrox, KDF and carbon can be used.

Raw sulphide levels are seasonally variable so caution is required diagnosing system needs. Carbon alone is not a solution for sulphur removal and can have high service costs.

faq's



hard water costs ?

Hard water will allow limescale to form in pipes, tanks, heater elements, cylinders, immersions, showers and many kitchen appliances, causing thousands of euros of financial damage throughout the household especially with very hard water.

Calgon, Punch, Cillit Bang, higher use of shampoo, soap powder, detergents and domestic cleaning add greatly to household running costs and the effort of extra cleaning. Quality of life is less, with poor wash results, high wear and tear on clothes and itchy skin.

how does a softener work ?

Hard water passes via a pressure vessel where "hard" calcium ions cling to oppositely charged polymer beads. Soft water then passes out of the vessel. Every few weeks an automatic valve diverts brine via the beads to remove lime.

Excess brine and lime wash out to a drain. Only 0.05% of the sodium and 0% chloride are left in the softened water, so zero "salt" and zero taste are left and so the softening cycle continues.

Existing limescale in the household dissolves over a period of time with combined savings paying for a softener many times over. A scaled kettle used on soft water will go back to clean metal in a matter of weeks.

A larger water softener has a higher capacity, life span and salt storage capacity. Softeners can be fitted in garages, boiler rooms and utilities or outdoors in modern sealed cabinets, sited on external walls near to the incoming mains.

what is R.O. hyperfiltration ?

RO / HF systems are the best performing mini drinking filter systems domestically available. A mini faucet is fitted to the sink linked to the RO with a mini tank and mains/waste tube.

Water molecules, some minerals and air can pass through filter micropores but without chlorine, odour, colour, taste, lead, heavy metals, nitrates, bacteria, grit, sediment, pesticides and sodium.

Calcium minerals can be adjusted above bottled spring water mineral levels if required. Eitherway all E.U. water limits are strictly addressed. No other filter system provides as safe a quality water.

what if I have a private well ?

Well water may sometimes appear to be clear but often has various contaminants such as lime, iron, heavy metals, turbidity, bacterially produced gases and bacteria. Clear and odourless water could have all of these.

It is essential to have well water tested before choosing a filtration system for particular water issues. Never assume a standard water softener or basic filter can be used on well water. Never assume well water is okay by looks alone.

Uncertain water testing could easily lead to filter equipment incorrectly chosen, sized and calibrated - voiding warranties. Firms that fail to mention INAB certified professional water testing could over sell equipment by thousands of €€.

Any known water issue can be corrected using a selection of properly specified equipment after a full chemical and bacterial water test. Usually a backwashable filter, UV and RO are required.

**For more info please visit our website - galwaywater.ie

	ionic and molecular range (domestic systems)				micro	macro	visible
microns :	0.0001 <small>proven</small>	0.001 <small>unproven</small>	0.01 <small>proven</small>	0.1 <small>proven</small>	1 <small>proven</small>	10 <small>proven</small>	
process	hyperfiltration RO HF	nanofiltration NF	ultrafiltration UF	microfiltration MF	sediment filtration	grit filtration 100+	
products	membrane crossflow filtration			ceramic	fibre	washable s/s	
particle size ranges	metal ions soluble salts atom level	organic colour	turbidity virus	asbestos	algae bacteria crypto	giardia	sand 300 hair 70
products	membrane filters / softening / backwashable media systems				ultraviolet	grid / mesh	

high capacity ion exchange water softeners

Every model of the Clack 20 litre plus volumetric / meter controlled water softener range can cope with any number of occupants from 1 to 50 people even on the hardest water in Ireland, built with all US made Clack, 10 year warranty, NSF certified components. Any size covers any size of household.

Because no single day of domestic water use is exactly the same, often with many variations in usage, metered water softeners save up to 80% water and 70% salt use compared to smaller out dated timer based water softeners, many being Asian manufacture copies of old 1960 style timer valves. The best softeners are U.S. made Clack commercial grade quality for domestic use.

Clack easily outrank brands like Autotrol, Culligan, Hague, Eerie, Kinetico, Ionics, Siata, Canature and Runxin and of course the Eastern manufactured copies of 1960 style timer valves at the bottom end of the caravan and apartment market.

We offer 30 to 40 year system longevity, using only top level Clack WS1CI meter control valves, also food grade Lanxess S1567 high performance monospheric, low oxidative, co-polymer resin - the highest performing ion exchange media available on the market.

Water flow is controlled by the Clack valve into the Lanxess media where positive ions such as calcium and other ions cling to negatively charged Lanxess media leaving water free of lime, magnesium also reducing : iron, manganese, heavy metals, radium, aluminium, ammonium, dirt, sediment and organics. Additional Lanxess MP500 tannin removal options are available.

Clack systems automatically measure water use with a roll-on diagnostic water use history, predicting a backwash on a calculated day to regenerate plus on-demand override incase of a high daily water use. Using up to 28 day range, with variable self correction based on super accurate water metering, Clack's astonishing, reliable, proven, microprocessor controls will save you €1000's.

You have probably heard the benefits of perfectly soft water - "squeaky clean, silky soft", the sales patter about no scum on baths or scale on showers, energy, plumbing, detergent savings. All brands of ion exchange water softener provide soft water, it is just a question of economy, efficiency, reliability and the long term performance.

The important reason systems perform well apart from brand quality is the quality of installation and calibration. We are Ireland's leading installers with professional kit-out vans, offering commercial grade installations also the only Clack factory trained staff and WQA Certified Water Specialists IV in Ireland.

System water use : up to 1/10th of mini timer units	<input checked="" type="checkbox"/>	Average salt use : €7 per person per year	<input checked="" type="checkbox"/>
No exposed metal parts - a lifetime of rust free use	<input checked="" type="checkbox"/>	Anti-shear sensor : in case of ice freezing	<input checked="" type="checkbox"/>
Soft water brining : clean valve and clean tanks	<input checked="" type="checkbox"/>	The best diagnostic controls on the market	<input checked="" type="checkbox"/>
Mercedes Benz quality electric motor, lasts for life	<input checked="" type="checkbox"/>	Best build quality, warranty and reliability	<input checked="" type="checkbox"/>
Estimated system life 30-40 years, for lifetime use	<input checked="" type="checkbox"/>	Health check and service : from 5-10 years	<input checked="" type="checkbox"/>
High resin capacity systems : 22 litres to 42 litres	<input checked="" type="checkbox"/>	Inlet water pressure : from 20 psi -125 psi	<input checked="" type="checkbox"/>

Average regeneration period 1 - 3 weeks based on family water use of 1,000 to 3,000 litres per week
10 inch diameter x 24, 30, 35, 44 and 54 inch high cylinders (2,350 to 7,500 litres per regeneration)

**For any size household, any size listed above will perform extremely well for up to 40 years.
Larger systems offer better economy, life span, water savings, less service, easier salt refills.**

**"Microcabinet" (4 to 8 ltr) or "Minicabinet" (10 to 14 ltr) systems cost a lot more to operate long term.
Mini systems are usually marketed via mail order or via hardware stores for caravan / small apartments.**

**We stock NSF certified meter controlled mini softeners - around half the cost of the old style timer units - (DIY only).
Not the best choice but used for bottle washers in pubs, landlords and builders looking for low cost options.**

Other uses for mini cabinet water softeners are for lower hardness waters, small apartments, caravans and holiday homes or you are purchasing a system but not paying for the long term running costs, builders selling houses or landlords offering soft water for tenants to keep properties scale free. Appears like a minor cost saving, but many times the cost of running high capacity softeners.

Servicing checklist ;

Drinking filter systems such as reverse osmosis units have many filter cartridges including : **a)** pre-filters + **b)** membrane + **c)** post filter. Their age, maintenance and incoming water conditions determine the quality and safety of filtered water provided.

Pre-filter service is required every 1 to 2 years depending on the feed water quality and volume of usage. One year after installation it can often be determined if either a 1 or 2 year service schedule is best.

After 3 years on hard water or 5 years on soft water, membranes need service. A new low cost RO system upgrade may be offered for improvements in water quality, warranty and more efficient running costs.

- a) pre-filter callout and service - €100 (1-2 years)
- a, b, c) full cartridge call/service - €200 (3-5 years)
- a) pre-filter DIY self service - €70 (1-2 years)
- a, b, c) full cartridge - DIY svc - €150 (3-5 yrs)

**** Avoiding manufacturer advised filter servicing is likely to compromise drinking water quality and invalidate your system warranty.**

Don't postpone pre-filter service beyond 1-2 yrs.

Ultraviolet systems have UV lamps which have an effective life of 9000 hours or one year, beyond which the UV effectiveness begins to reduce.

The UV lamp needs changing each year along with a 5 micron filter cartridge. This is not an easy DIY job for some, but can be easily managed by many a keen DIYer. UV lamp and filter callout / service - €75 to €100.

**** A lack of servicing will compromise your drinking water quality, water flow + warranty.**

Don't postpone UV lamp service beyond one year.

water softener servicing

Our range of Clack high capacity water softeners have an extremely long service life so basic health checks are usually all that is required after the first 10 years of installation. Mini and Commercial = 5 years warranty.

From 10 to 20 years, some higher performing softener systems may need a low cost resin refill or comprehensive control valve service.

Things to watch out for ;

1) **Leaks.** Few householders realise the often high potential for household water loss. We have tracked down many silent leaks over the years often saving home owners collectively, millions of litres, usually the cause of leaking toilets.

Leaks are a potential killer for well water systems so we offer a range of water metering and leak detection methods to track down big leaks or just the nuisance ones to save you money.

2) **Salt.** Certain brands of salt can clog or "cake up" in salt tanks, preventing systems from working. Only use **Axal Pro tablet salt** as this brand has performed 100 % in the last 7 years.

Never allow salt to run low on well water systems especially the more problematic ones. A normal mains water softener won't feel the harm, but a well water system with iron may foul up.

3) **Water pressure.** Another system immobiliser are water pressure variations. Householders are not always aware of mains water pressure variations, usually the hope is pressure is steady all year round. **Warranty psi range = 22 min - 44 ideal - 66 max.**

Well water pumps should have a **40 - 60 psi** range. Water schemes can vary from under 20 to over 120 psi. Even some city water feeds can exceed 120 psi.

4) **Frost.** Minus 10 degrees may kill off many other water system brands, but we have rarely had a system issues at minus 5 to minus 10 C, except when sheds or garages are exposed to frost as low as minus 10 to 20 degrees C, which can cause water vessels to burst.

Either way, avoid potential system damage and make sure out-buildings are well insulated with closed doors and windows, maybe using a frost stat heater installed in cold and draughty areas.

warranty exclusions

1) leaks 2) wrong / low salt 3) <22 to 66> pressure 4) frost 5) consumables 6) misuse and neglect 7) damage 8) third party servicing 9) heat over 50C 10) fire, flood, storm, lightning, power outages.

Excluded : Engineer call out cost if there is no equipment fault. Keep equipment serviced, top up salt and check for toilet leaks and water pressure.

galway water installed water softeners



warranty

galway water installed well water systems



Products will be repaired or replaced free of charge if installed, run and serviced to manufacturer advised warranty terms. (Keep invoice, brochure, warranty, service information in case of warranty claim.)

This includes a **free same day call-out service** for urgent issues, within office hours (or out of office hours, work schedule permitting) if you call before noon on the same day if any major problem occurs.

Filters to be serviced **1-2 years**, membranes **3-5 years**, + UV lamps **each year**. A new RO system and a **5 year warranty** can be offered for the cost of full RO service, after 5 years from date of purchase.

Your water softener warranty can be extended for another **5 to 10 years** depending on size and type, if the service is conducted before warranty expires. A **1 year** warranty is offered for products correctly installed and serviced if not by **galway water**, - these should be returned for repair if valid under warranty.

Well water must be tested using HSE INAB certified laboratories - warranties from 5 years.
DIY installed well water systems are expressly excluded from warranty cover.

No warranty is given for defects or damage due to : accident, neglect, misuse, alteration, lightning, frost, condensation, stagnation, water temperature and water pressure extremes, exceeding system operating limits, exceeding service intervals, or third party servicing on any **galway water** installed systems.

No liability is given for all incidental or consequential damage or any other kinds of loss. All consumables including: salt, batteries, cartridges, resin, media, lamps and ballasts are excluded from warranty.

Do not extend treated water use to: livestock, garden or other houses, unless your system is designed for these purposes. Ongoing water use beyond daily system capacity may invalidate your warranty.

A service callout fee may be applicable where no fault of the equipment is found.

Important: Many water schemes have varying pressures (from 15 psi to 125 psi). The recommended limits are 22 psi to 66 psi. **Save €1000's - fit a pressure regulator : ideal pressure should be 44 to 66 psi.**

Important: Some types of salt brands are known to block up in salt tanks. Only use Axal Pro salt. Don't use granular salt. **Keep bin topped up with salt to save on potential service call outs.**

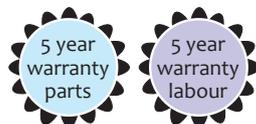
Important: Toilets are the main cause of undetected leaks multiplying water bills. Act quick to fix leaks. **Save €1000's on : water bills, softener salt, pumps, system damage, call outs or a void warranty.**

Heavy rainfall can cause source water to contain coloured or bog water like tannins periodically.
Tannin treatment systems are recommended if tannin colour occurs in water.

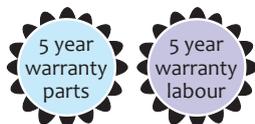
Carbon can reduce variable low colour. Sulphide is variable and can only be tested at source. Bacteria is variable - UV will kill bacteria. Reverse osmosis is the best technology to treat sodium, nitrates, nitrites, pesticides, all heavy metals and the widest range of toxins. Ask advice about copper stains or langelier testing if green or blue stains appear in the bathroom, or blond hair turns green.

Ultraviolet systems only perform best on water free of colour, turbidity, scale, iron, manganese and sulphide.

galway installed RO filters:



galway installed UV systems:



See servicing and warranty checklists, sign off to acknowledge all items listed.

signed : _____