

new

Rainwater Re-use Systems

Product Guide



FOR RESIDENTIAL AND LIGHT COMMERCIAL APPLICATIONS

Introduction to Rainwater Re-use Systems

Imagine the possibilities....

Installing a Rainwater Re-use System can save up to 50% of domestic water consumption. Whilst drinking water is still relatively inexpensive, it isn't always available and there are no guarantees that the price of water will remain low in the future. Climate change, government legislation and the desire by UK homeowners to use sustainable technologies are all contributing to a widespread interest in making the most of every drop of rainwater.

At a time when the building industry, from self-builders to national house builders, are actively seeking ways to improve water efficiency in the home, it is little wonder that the UK market for Rainwater Re-use Systems has been growing rapidly over the last few years.

There is little sense in the age old practice of using drinking quality water to flush lavatories, when filtered rainwater is available as an alternative.

Rainwater is naturally soft, using it to wash your cars and windows means it does not leave streaks like hard water. Plus, there couldn't be a more natural way to water your garden. In some parts of the UK, hosepipe bans have been a constant feature of recent times. Storing rainwater for outside use is the best way to beat the effects of prolonged dry weather without breaking a ban. Just think... a 2000 litre tank of water stored below ground is the equivalent to over 10 good sized water butts.

Key Features

- Robust, lightweight Polyethylene storage tanks
- Range of filter options available
- Virtually silent pumps
- Tanks can be connected together to increase overall capacity if required

Code for Sustainable Homes

- The Code for Sustainable Homes has been introduced to drive a step change in sustainable home building practice and is set to become the single national standard for sustainable homes
- Rainwater Re-use Systems provide a means to bring about a significant reduction in the use of potable water within the home, thereby making an important contribution towards achieving the needs of Category 2 - (Water), of the Code

New Rainwater Re-use systems

System Overview

Range of underground storage units for non-potable domestic and/or garden irrigation; plus a range of storage units for garden irrigation.

Non-potable Domestic Package

- Providing harvested rainwater for toilet flushing, laundry, garden watering and car washing
- Includes a Polyethylene (PE) storage tank with flow calming device and overflow siphon which incorporates a surface skimming feature and vermin-resistant grid
- Suitable for installing with sand, granular or concrete surround
- Choice of 3 types of filters – “in-tank”, buried and downpipe
- Multi-stage submersible pump with integrated pump control and supplied with a 15m cable
- Compact, encased control unit, incorporating “AA” type air gap for mains water top up
- 25m of 25mm MDPE delivery pipe
- Turret, with tamper-resistant option, suitable for pedestrian areas
- Tracer tape, hazard warning plate for outside taps and labels for marking internal pipework and appliances

Garden Irrigation Packages

- The garden systems include a range of below ground Polyethylene tanks in 2000, 3000 and 4000 litres, or an above ground Polyethylene cylinder 1400 litre tank and an above ground 750 litre Polyethylene wall tank
- The Below Ground tanks incorporate in-tank ‘basket’ style filters and the Above Ground tanks are connected to downpipe filters

Below Ground Garden Irrigation



Basket Filter

- Supplied with below ground garden irrigation systems
- Housing for filter basket, fitted within the turret, incorporates 110mm inlet and overflow connections
- Plastic filtration mesh down to 0.5mm
- Removable filter basket for carrying out routine maintenance



Overflow Siphon

- Buried tanks for both domestic and garden irrigation duties are supplied with a trapped overflow siphon, incorporating vermin-resistant grid
- Promotes skimming action to remove floating contaminants and safeguard water quality



Garden Pump

- Is designed to be used in submersible or surface applications
- Supplied with 10m of cable and 1m of 1" heavy duty hose
- Weight 11.5kg
- Maximum flow rate 3,100 Litres/hour
- Supplied with stainless steel filter screen



Above Ground Garden Irrigation



Above Ground Storage Unit

- For garden watering and car washing
- Ideal for retro-fitting
- Lightweight, robust Polyethylene (PE)
- For use with downpipe filter
- Supplied with garden pump (as above)



Wall Tank

- 750 litre capacity
- Ideal for homes and small businesses
- In-built filter collector provides enhanced water quality
- Optional pump
- Fits all UK down pipes from 65mm to 100mm
- Pleasing slimline appearance – measures 800mm (width) x 500mm (depth) x 175mm (height)



NEW PRODUCTS

Rainwater Re-use Systems

Key Benefits

- Can meet with the requirements of Code for Sustainable Homes
- Saves up to 50% domestic water use
- Easy to install, use and maintain
- Compatible with Wavin's total Rainwater and Drainage solutions

Turret and Cover

- Buried storage units are supplied with a turret incorporating a tamper resistant cover, which is suitable for non-trafficked locations
- The turret incorporates 4 x 110mm connections spaced at 90° intervals. Two are primarily intended for accommodating the "in-tank" filter, when fitted, with the others providing connection points for ducted services



Control Unit

- Compact one piece unit – with casing; incorporating an "AA" Type air gap, pressure gauge and water hammer absorber to prevent pump from hunting unnecessarily
- Dimensions – height 180mm, width 285mm, depth 130mm
- Requires single phase 220-240V power supply
- All settings necessary for the correct operation of the system are preset and managed by an integrated flow control function within the submersible pump



Domestic 'in-tank' Filter

- Serves roof area up to 150m²
- Located within the turret
- 85% efficiency
- Equipped with self-cleaning filtration system with calming device fitted at base of inlet stand pipe
- Removable lid for accessing the filter screen during routine maintenance



Buried Filter

- Serves roof area up to 450m²
- Incorporates removable filter, manufactured from high-grade stainless steel. Filtration mesh down to 0.35mm
- Special extendable handle for filter cartridge maintenance
- 90% efficiency
- Flexible installation depth
- Self-cleaning filter screen
- Maximum invert 1.2m when fitted with extension shaft
- Complete with non-load bearing cover



Submersible Pump

- Multi-stage submersible pump with single phase 220-240V motor – self priming and cooled by the pump liquid
- Integrated dry-run motor protection and flow control with electronic on/off switch mechanism
- Supplied complete with 15m of cable and floating inlet filter
- Delivery up to 5.7m³/hour @ 4.5bar
- Weight: 8kg



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Overflow Siphon

- Buried tanks for both domestic and garden irrigation duties are supplied with a trapped overflow siphon, incorporating vermin-resistant grid
- Promotes skimming action to remove any floating contaminants and safeguard water quality



Float Switch

- Float control switch supplied with 20m of cable, is installed separate to the pump
- Incorporates feature that enables easy setting and resetting of 'Mains Water Top Up' activation levels



Flow Calmer

- Essential in maintaining water quality
- Fitted as standard on all storage units used to supply harvested water for domestic internal applications



PE Buried Storage Unit

- Storage tanks are manufactured from Polyethylene (PE)
- Available in 2000, 3000, 4000 litre capacities
- PE tanks supplied with the Wavin system are designed for storing harvested rainwater and are equipped with everything necessary to achieve and retain excellent water quality with the minimum of maintenance
- Fitted calmed inlet and trapped over flow with vermin-resistant grid
- Supplied with turret and tamper resistant cover for use in pedestrian areas
- Suitable for installing with either sand, granular or concrete bed and surround



Product Details

Description	Part Number	Pack Qty	EAN No.
Domestic: Below Ground Systems			
2K L Re-use Kit & In-Tank Filter	2RU200	1	5011479210932
3K L Re-use Kit & In-Tank Filter	2RU300	1	5011479210949
4K L Re-use Kit & In-Tank Filter	2RU400	1	5011479210956
2K L Re-use Kit & D/Pipe Filter	2RU201	1	5011479210987
3K L Re-use Kit & D/Pipe Filter	2RU301	1	5011479210970
4K L Re-use Kit & D/Pipe Filter	2RU401	1	5011479210963
2K L Re-use Kit & Buried Filter	2RU202	1	5011479210994
3K L Re-use Kit & Buried Filter	2RU302	1	5011479211007
4K L Re-use Kit & Buried Filter	2RU402	1	5011479211014
2K L Below Ground Tank – (Spare)	2RU204	1	5011479211052
3K L Below Ground Tank – (Spare)	2RU304	1	5011479211069
4K L Below Ground Tank – (Spare)	2RU404	1	5011479211076
Tank Inter-Connection Seal	2RU002	1	5011479211083
Downpipe Filter Spare (Domestic)	2RU003	1	5011479211090

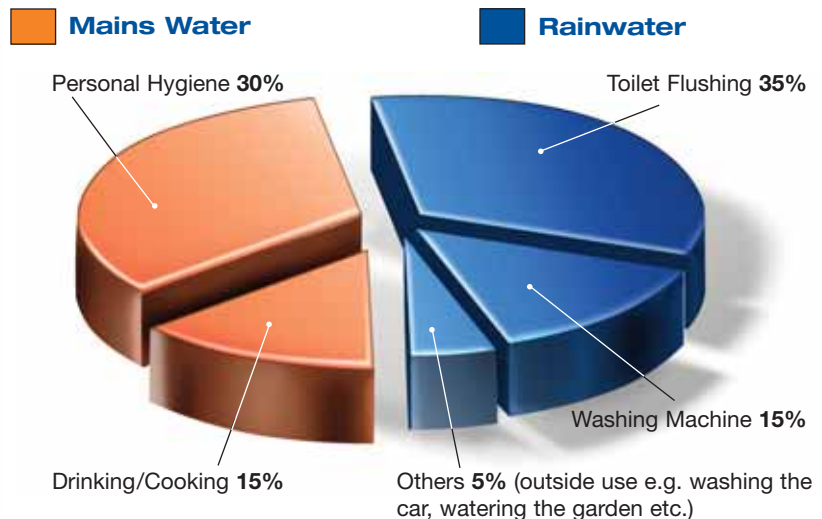
Garden Irrigation: Below Ground Systems

2K L Garden Re-use Kit & Filter	2RU203	1	5011479211021
3K L Garden Re-use Kit & Filter	2RU303	1	5011479211038
4K L Garden Re-use Kit & Filter	2RU403	1	5011479211045

Garden Irrigation: Above Ground Systems

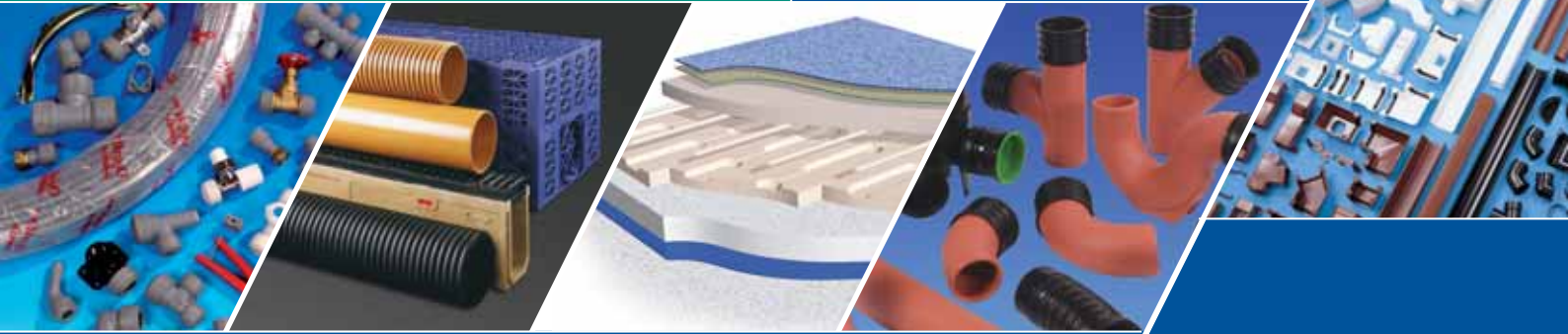
1.4K Garden Re-use Tank & Pump	2RU140	1	5011479210918
750L Wall Tank with Fixings (BLK)	2RU750B	1	5011479210826
750L Wall Tank with Fixings (GN)	2RU750GN	1	5011479210833
Downpipe/Diverter (BLK)	2RU004B	1	5011479210840
Downpipe/Diverter (GR)	2RU004G	1	5011479210864
Downpipe/Diverter (WHT)	2RU004W	1	5011479210857
Tank Connector Kit – 0.25m	2RU005	1	5011479210871
Tank Connector Kit – 1m	2RU006	1	5011479210888
Pump for Wall Tank Re-use System	2RU007	1	5011479210895
Pump Connection Kit	2RU008	1	5011479210901

Typical Household Water Usage



Rainwater Re-Use Systems

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Meeting your needs

Wavin offers a comprehensive range of plastic, clay and terracotta systems under the OSMA, Hepworth and Hep₂O brands that provide intelligent solutions for all Building & Installation, Civils & Infrastructure and Surface Heating & Cooling applications.

All OSMA and Hepworth systems are backed by full technical literature and project support.



Member of the UK
Rainwater Harvesting
Association



ISO 9001:2000

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