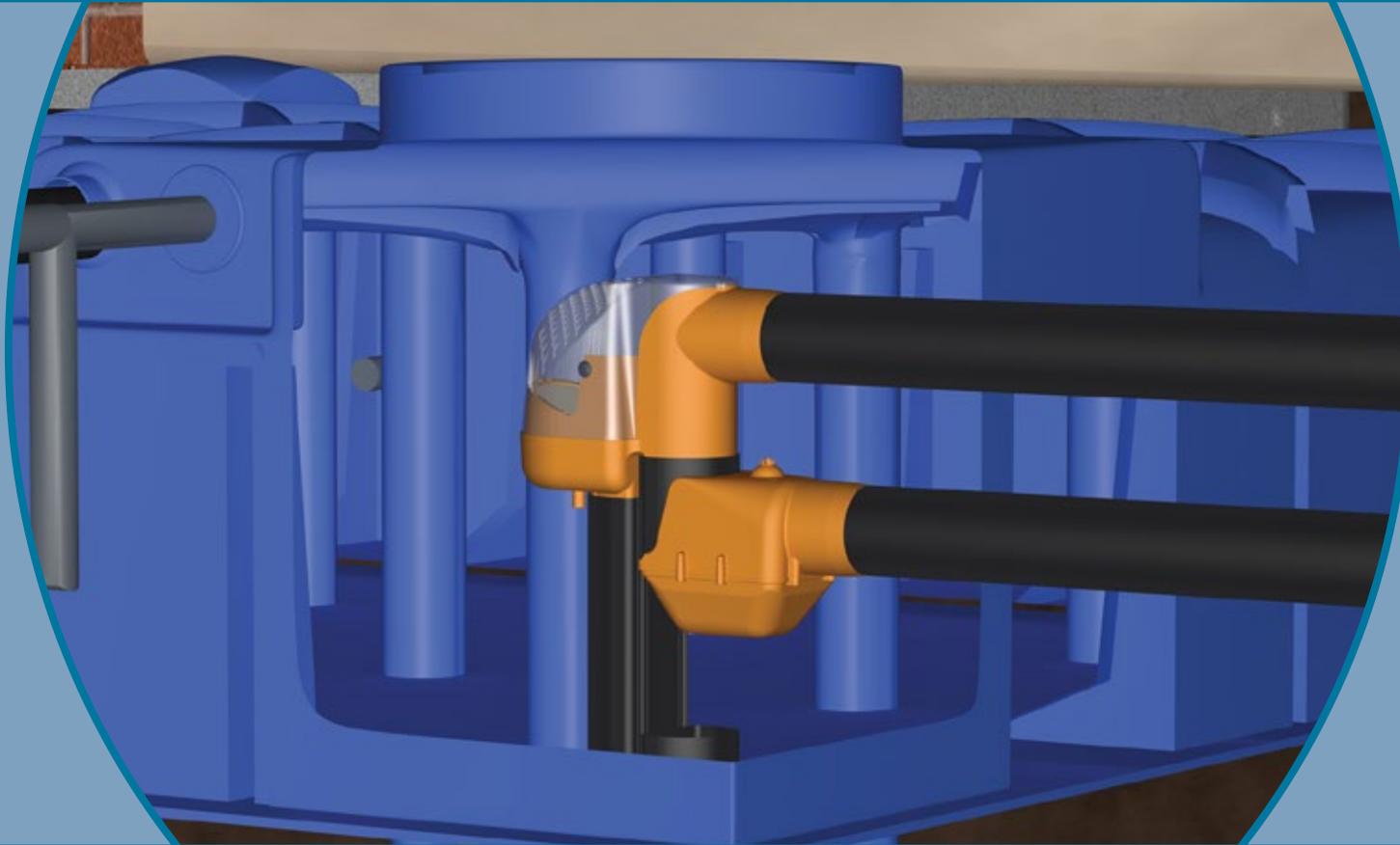




Rain Activ SuDS Solution



Ultra Low Discharge SuDS Device Manufactured By RainWater Harvesting Limited

Who We Are...

At RainWater Harvesting Ltd, we are proud to be one of the UK's leading manufacturers and suppliers of rainwater harvesting equipment.

During the last decade, our name has become synonymous within the industry for high quality, technologically advanced, British made products.

Our products have always differentiated themselves within the industry, with intelligent design and high quality manufacture. Because we engineer an original concept, develop it through CAD, tooling, build and take the end product to market, nobody understands our products better than we do.

Our advancements such as the **Rain Director**[®] and easy to install shallow dig tanks have made rainwater harvesting an even better idea than before. Making systems easier and more cost effective to install, smarter and vastly more energy efficient to use.

Following on from our success in the rainwater harvesting market we are now able to offer a revolutionary device which allows you to have a SuDS solution with incredibly low discharge rates.

We have designed a solution for new build projects, both for the domestic and light commercial use.

We listen to the market, establish the requirements and then provide the solution.

Why Rain Activ?

Rain Activ is an exciting opportunity, both to large developers and self builders alike.

The system has succeeded in reducing SuDS costs during planning, purchase and installation.

As well as simply reducing costs, Rain Activ far outperforms its competitors in numerous key areas:

- Industry leading, ultra low storm water discharge rates.
- Professional calibration with full Micro Drainage calculations provided.
- Arrives to site fully assembled and ready to install.
- No moving or consumable parts, and fully self-cleaning.
- Add rainwater harvesting for very little extra cost.
- Designed and manufactured in the UK.



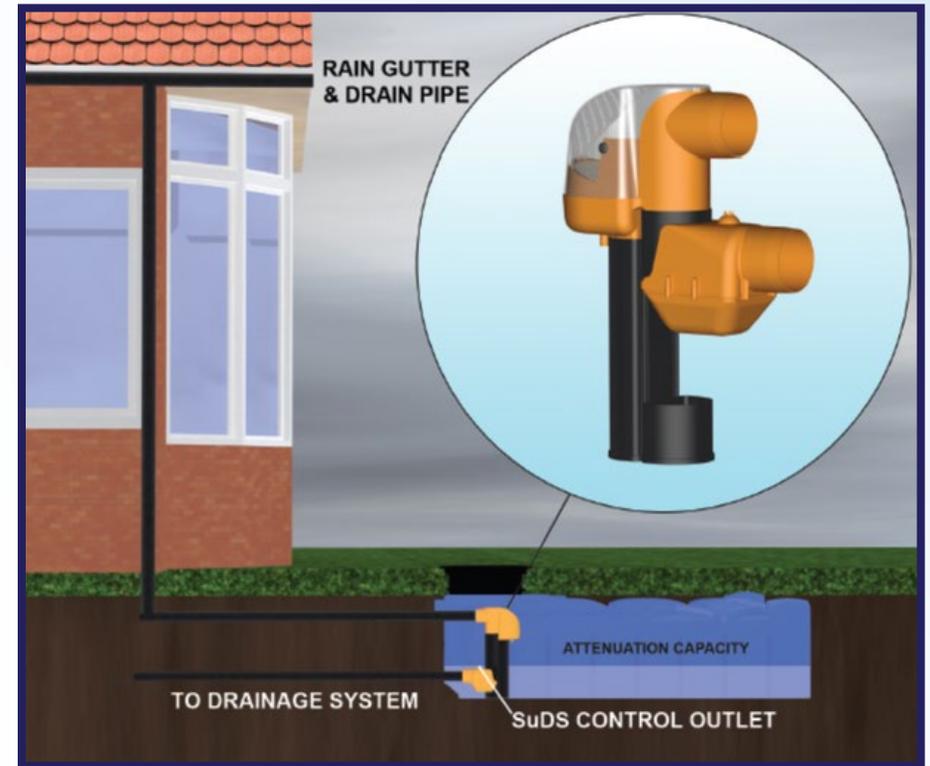
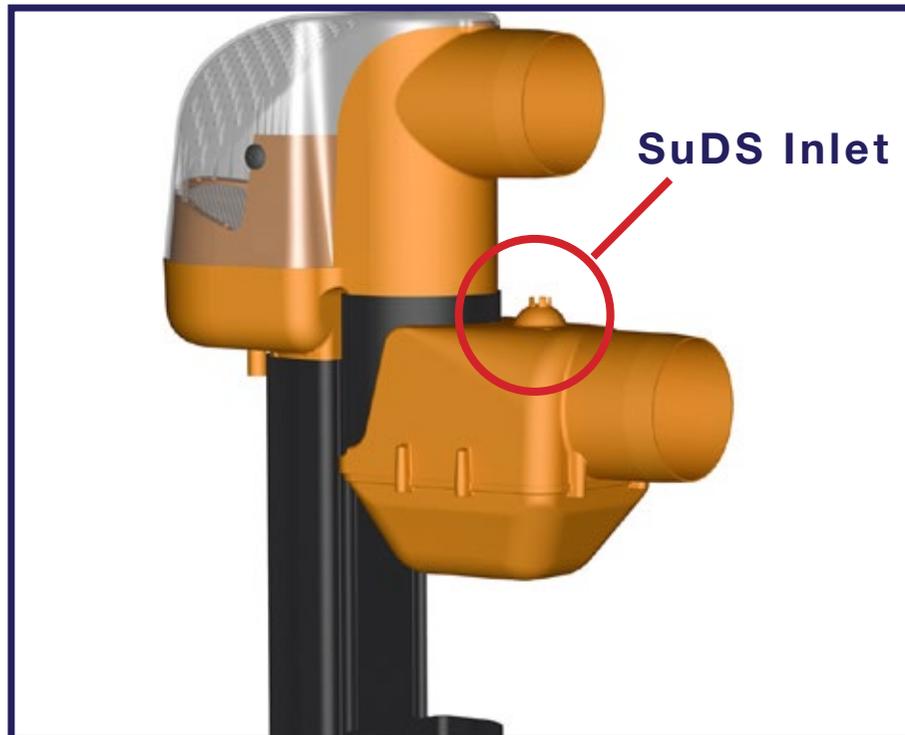
Due to recent flooding incidents, planners are putting a high emphasis on new developments to include an effective drainage strategy.

Rain Activ provides a new, higher performing, lower cost alternative to traditional storm attenuation systems.

How Rain Activ Works

Rain Activ utilises a simple to install, pre-assembled, shallow dig rainwater storage tank, along with a self-cleaning filter and a controlled discharge valve.

Rainwater from the roof is heavily filtered as it enters the tank, removing any particles larger than 1mm. Once the rainwater reaches a set level within the tank it is discharged at a controlled rate. Due to the quality of filtration involved, a very small orifice can be used without the risk of blockage. For this reason, Rain Activ can provide industry-leading rates of discharge as low as 0.05 litres per second.

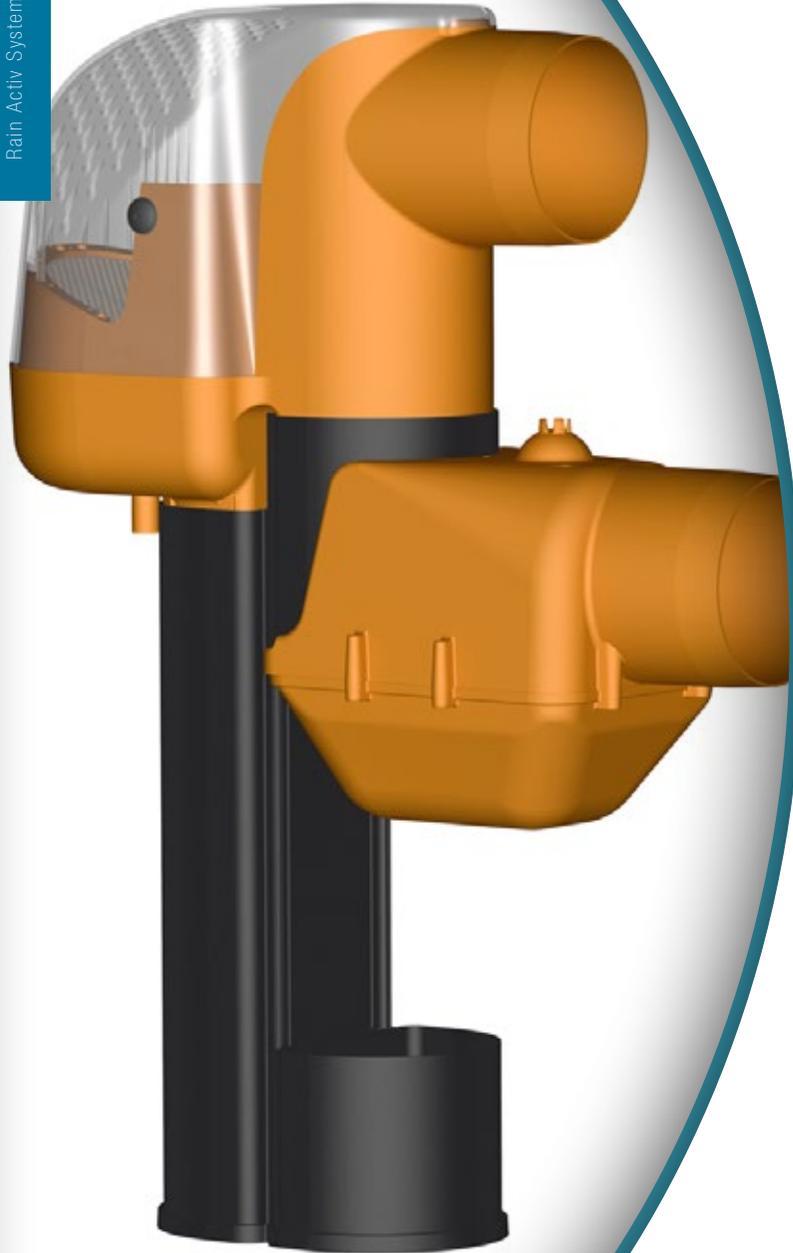


Every system we sell is bespoke, and calibrated to each site's requirements. Our engineers use Micro Drainage™ hydraulic modelling software to ensure the system discharges at the desired peak rate during a storm event.

As the system already contains various key components, such as the tank and high quality filtration, the addition of a submersible pump and management system turns the system into a full domestic rainwater harvesting system.

Typical Tank Installation





Ultra Low Discharge Rates

Rain Activ delivers new industry low levels of storm water attenuation. The systems can be calibrated to provide a calculated discharge value as low as 0.05 litre per second, up to 2 litres per second, dependant on site requirement.

With discharge levels this low, Rain Activ provides a solution for sites that have previously found meeting storm attenuation criteria difficult or impossible. These include:

- Smaller developments (1-10 homes) where the rate of storm water is not great enough for effective use of vortex flow control.
- Greenfield sites.
- Sites with very low discharge rates stipulated by planning.
- Contaminated sites.

**Fully enclosed system with a max excavation depth of 1.5m*

Rain Activ produces a much flatter discharge curve than other storm attenuation systems. This means the system can help reduce stress on the drainage network over a greater range of storm events, rather than being calibrated to one specific event.

Calibrating Rain Activ

Our design team calibrates every Rain Activ bespoke to site requirement.

Our extensive hydraulic modelling, lab testing and field testing provides academically supported data in order to calibrate the system correctly.

- Storm event to be catered for.
- % Climate change.
- Required run off rate.
- Roof size.
- Geographical location.
- Potential water usage (if combining with Rainwater Harvesting.)

Using the data provided above, our experts use Micro Drainage™ hydraulic modelling software to test the system and provide documentation ready for immediate submission to planning authorities.





How Rain Activ Reduces Costs



Planning - Rain Activ provides developers with a new tool to maximise building area and reduce SuDS costs. By controlling the discharge rate at source, expensive and “space intensive” secondary storm attenuation devices, such as balancing ponds and wetlands, can be minimised or even excluded from plans.



Installation - Rain Activ arrives fully assembled and ready to fit. The use of a single piece, shallow dig tank means even a large tank (7500L) will require only 1.5m of excavation. Costs are further reduced as no concrete or specialist training is required.



Maintenance - Rain Activ contains no moving parts and is fully self cleaning. Once installed, all maintenance (typically one annual visual check) can be the responsibility of the homeowner.

Smart Planning Options

Use of Rain Activ on a development can significantly reduce the space required and long term running costs of traditional SuDS elements such as wetlands and ponds.

When used in conjunction with our industry leading rainwater harvesting systems, homes will also see a significant increase in environmental credentials, and a decrease in water charges.



Easy Maintenance

Maintenance is vital for any storm attenuation system to work effectively. Rain Activ's self cleaning design has no moving or consumable parts making maintenance simple, quick and safe.

The system utilises tried and tested self cleaning technology, removing and discarding all leaves and debris retaining 98% of collected water.

Maintenance frequency can be as low as once every 12 months with each check taking around 5 minutes.



How is Rain Activ maintained?

Remove the manhole cover.

Visually inspect filter. If no major debris is present then replace the cover.

If large or non moving debris is present, remove the filter head and wash under a tap.

Replace the filter head.

Replace the manhole cover.

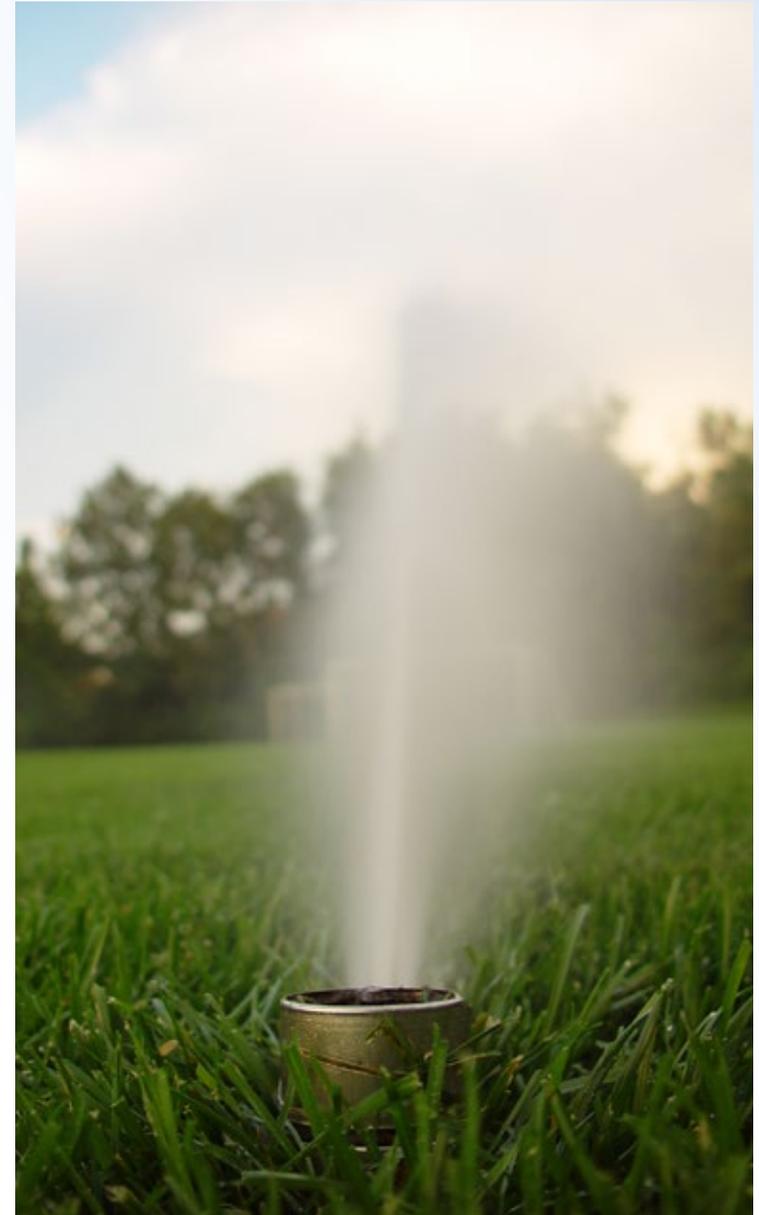
Dual Purpose System

Excellent storm attenuation combined with all the benefits of rainwater harvesting.

Why simply let rainwater drain away? Rain Activ provides all the benefits of a traditional SuDS system whilst providing free water for gardens, toilets and washing machines.

As major parts of the infrastructure, such as the tanks and filtration system, are already in place, adding rainwater harvesting is as simple as including a pump and management unit.

Over the last 10 years we have become industry leaders in low energy, smart rainwater harvesting systems. The latest generation systems can save 50% from a water bill, whilst running costs are less than 1p per person per day.



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