



**raintech**<sup>®</sup> Rainwater Harvesting Systems  
for Agriculture & Horticulture

Quality systems combining British know-how   
with German technology 





# Rainwater Harvesting — filtered water for livestock, irrigation or wash-down

## Evolved System Design

- Class-leading filtration technology
  - Intelligent control systems
  - Unique 4-step water cleaning:
1. **Vortex fine filter** - the finest rainwater filter available, self-cleaning and oxygen enriching
  2. **Calmed inlet** - provides stable sedimentation and further oxygenation
  3. **Floating suction extraction** - takes water from the cleanest level of the tank, avoiding sediments
  4. **'Multisiphon' overflow** - horizontal outlet provides effective surface skimming. Deep U-bend prevents drain odour. Unique anti-backflow device built in

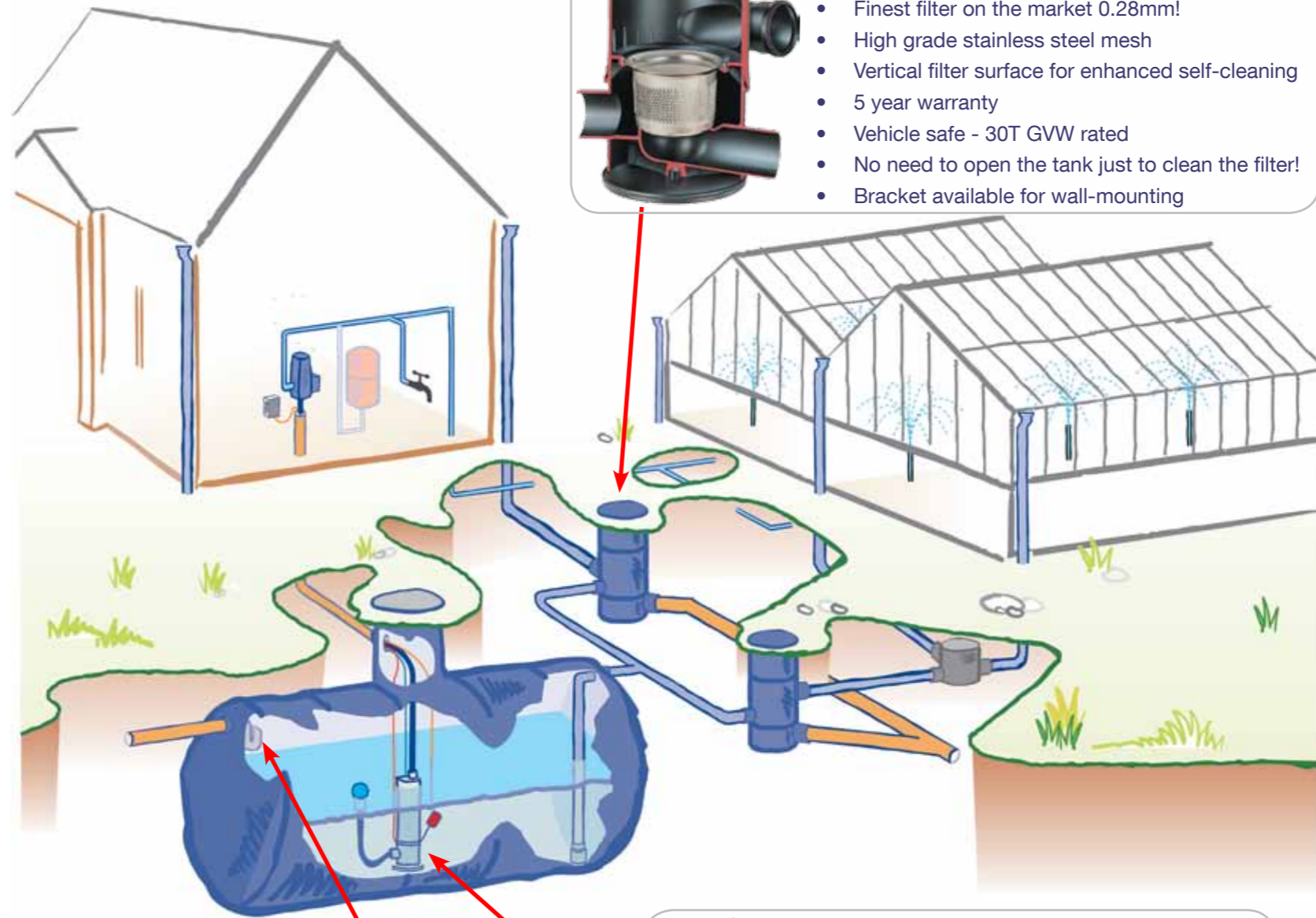
Rainwater is a rather unpredictable commodity; - we either have too much of it when we don't need it or not enough when we do. So, by collecting and filtering it when available and storing it until required, we can make good use of this resource.

Rainwater is naturally soft, so is good news for anyone in a hard water area, meaning less limescale build-up in irrigation or spray equipment. Rainwater is also free from chlorine so is more palatable to livestock, and better for certain plants that are lime-intolerant.

Almost any situation where there are large roof areas combined with a high demand for water, is suitable for collecting rainwater. Modern buildings with metal roofs are especially good, providing rapid run-off during rainfall events.

However, bear in mind that it is much easier to implement when erecting a new building, by making the installation part of the associated groundwork and infrastructure.

It is of course also possible to site tanks at ground level, providing adequate frost protection measures are implemented.



**Wisy® Vortex Fine Filter (WFF)**  
The Original and Unique Vortex filter.

- Finest filter on the market 0.28mm!
- High grade stainless steel mesh
- Vertical filter surface for enhanced self-cleaning
- 5 year warranty
- Vehicle safe - 30T GVW rated
- No need to open the tank just to clean the filter!
- Bracket available for wall-mounting



**High quality submersible multi-stage pressure pumps**

- Stainless steel housing
- Low-noise, high performance
- Water-cooled motor
- Fitted with floating suction filter & float switch
- Supplied complete with rubber base mounts and polypropylene lifting rope



**Unique Wisy® Multisiphon overflow unit**

- Effective and efficient skimming overflow removes surface debris
- Deep water trap prevents odours from the drains entering the tank
- Built-in anti-backflow device prevents dirty water flowing back into the tank (necessary to comply with British Standard BS 8515)

### Case Study: Lower Stanbridge Farm

This West Country dairy farm decided to expand their herd in 2015 which required construction of a new building. This was an ideal opportunity to install a rainwater system whilst construction equipment was on site. A 50,000-litre underground tank was installed to collect water from the new barn and an adjacent existing building, in order to provide a supply of drinking water for 300 cows. In the first 3 years of operation, the system has saved over 2,400 cubic metres of water and done much to reduce the run-off to the surrounding ground.



Filtered rainwater has many uses:

- Livestock water
- Sprayer filling
- Irrigation
- Yard washing
- Machinery cleaning
- Dairy cleaning
- Dairy cooling
- Sprouted fodder
- Hydroponics
- Stables



Filtered rainwater is safe, clean and freely available.

- Chlorine-free
- Limescale-free
- Palatable to livestock

### Financial Assistance

It may be possible to obtain some funding from DEFRA through the Countryside Stewardship Grant scheme. Some water companies also offer grants to assist in capital outlay - e.g. STEPS (Severn Trent Environmental Protection Scheme)





RAINWATER HARVESTING  
SYSTEMS FOR AGRICULTURAL,  
HORTICULTURAL, COMMERCIAL  
& INDUSTRIAL APPLICATIONS.



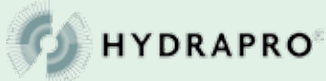
Founder member

UK Sole Agent and  
Main Distributor for



Advanced German  
filter technology &  
rainwater engineering

UK Agent & Distributor for



Rainwater Filters &  
SMART Control Panels



HYDRAPRO® industrial  
filters are suited to larger  
projects with roof areas in  
excess of 1000m<sup>2</sup>

## Rainwater Harvesting Solutions For Any Installation

Harvesting rainwater is not a new idea; the Romans were certainly doing it and there are many other examples from the ancient world. What has changed is the technology; modern materials and production techniques enable high performance products to be manufactured cost-effectively.

Our wide range of specialist components provides us with great scope to find the right solution for any situation. Using industry-leading filter units and control systems we can design a system that best fits the application, based on site requirements.



*Naturally soft rainwater is perfect for irrigating plants*



Rainwater harvesting helps by reducing demand on mains water supplies by intercepting rainfall, which would otherwise be unrecoverable, and using it for applications that do not require potable water. Many agricultural and horticultural sites can benefit greatly from using rainwater, so farms, stables and plant nurseries can reduce water bills and alleviate stormwater run-off. Most roof surfaces are suitable as long as there is an efficient guttering system, and for many purposes simply filtering leaves and other debris is sufficient. Where necessary, rainwater can be further filtered and sterilised for safe use in more sensitive areas e.g. dairy or other foodstuffs.



*UV disinfection units are available for use  
where a sterilised water supply is required*

With over 20 years experience we combine great technical knowledge together with proven high quality products to provide safe, reliable and efficient systems tailored to your requirements.

Call to speak to one of our technical sales team.



*Above ground tanks are ideal for retro-fitting  
on existing buildings*

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