

Range leaflet | Grundfos Domestic water pressure boosting

# Pumps for rainwater harvesting solutions

**GRUNDFOS** 

Possibility in every drop

# Harvest rainwater. Like never before.

## Grundfos water pressure pumps for rainwater harvesting

Rainwater harvesting is a much more sustainable approach to domestic water use and can lead to significant savings on homeowner water bills. It's also essential for communities that rely on imported water or are subject to water usage regulations.

Although national rainwater harvesting legislation is limited globally, there's now growing support for its utilisation, especially with instable and extreme weather patterns emerging due to climate change.

Introducing the Grundfos range of water pressure pumps, designed specifically for rainwater harvesting systems. With these pumps, homeowners can replace some of their potable water with the rainwater they collect and store, feeding back into the household water supply for non-potable needs.

### **Benefit from the right solution**

When selecting a water pressure pump for a rainwater harvesting system, there are key features to consider, including system scale, intended use, local legalities, and environmental conditions.

By incorporating a silent, energy-efficient, and sustainable Grundfos pump into their rainwater harvesting system, homeowners can reduce their reliance on mains water, optimise consumption, and enjoy the possibility of saving significantly on their water bill.



At Grundfos, we offer a range of reliable, efficient pumps for various rainwater harvesting systems. Our range also includes feed pumps for system distance bridging and fully integrated, self-priming rainwater management systems.

## **When selecting a rainwater harvesting pump, consider these features:**

- Self-priming and capable of extracting water from depths of up to 8 metres, whilst also managing airfilled suction applications effectively.
- Energy-efficiency for lower operational costs, especially when used frequently or in the long-term.
- Variable speed control to adjust the pumping rate according to demand, thereby saving energy.
- Dry-running protection that deploys sensors or automatic shut-off capabilities to prevent damage from malfunction or low water levels, extending overall pump life.
- Low operational noise level to minimise disruptions and maximise comfort, especially when installed near living spaces.
- Smart monitoring and control capabilities to easily schedule operation times, particularly for irrigation.
- External input options, such as level switches for tank filling or dry run conditions for enhanced control.
- Compatibility with storage tanks, filters and other rainwater harvesting components for seamless integration and optimal performance.
- Automatic/manual switching between the rainwater source and mains water to ensure a sustainable water supply.

# A booster pump for all installation types

Before selecting a rainwater harvesting system, it's important to assess the pump's scale and intended use, as well as the local conditions. At Grundfos, we offer a range of reliable, efficient pumps for various rainwater harvesting systems.



## Dry installed solutions

Installed either horizontally or vertically above ground, dry pit solutions simplify piping and offer consistent suction flow, enhancing versatility and efficiency across various applications.



### SCALA2

Silent and energy-efficient, this variable-speed pump with a noise level as low as 44 dB(A) adapts to demand and self-primers up to 8 metres, making it perfect for diverse water sources.



### SCALA1

Compact, self-priming water booster pump (up to 8 metres), ideal for diverse water sources. Connects to Grundfos GO for smart commissioning and monitoring, can be externally controlled via a float switch or similar, and offers different modes for optimal performance.



### SCALA1 System

Space-efficient, self-priming rainwater solution with automatic/manual changeover and smart commissioning and monitoring via Grundfos GO app. Prepared for feed-pump operation, it tailors performance to specific customer requirements, and includes an overflow alarm to prevent freshwater loss.

## Submerged solutions

Noiseless submerged pumps designed to operate fully submerged in the pumped water, requiring no additional space.



### SB

Submersible multistage boosters for domestic applications. It requires an external control unit, such as the Grundfos PM1 or PM2, providing comprehensive pump control through a user-friendly interface.



### SBA

Complete, all-in-one submersible multistage booster solution for domestic applications, with an integrated control unit that eliminates the need for an external pump controller.

# Compare product features

	Dry installed solutions			Submerged solutions	
Features	 SCALA2	 SCALA1	 SCALA1 System	 SB	 SBA
Self-Priming Capabilities	✓	✓	✓		
Energy Efficiency	✓				
Variable Speed Control	✓				
Automatic / Manual switch of water source			✓		
Noise level	✓			✓	✓
Monitoring and Control			✓	✓*	✓*
External Input		✓	✓	✓	✓
Compatibility	✓	✓	✓	✓	✓

\* External Controller.

## Accessories

A range of attachable rainwater harvesting pump accessories, ready to optimise system performance and reliability, and ensure purity and peace of mind in every drop.



### Suction kit

Selectively draws water from the mid-layer of wells and storage tanks, which keeps the water supply pure and free from dirt and debris, and ensures peace of mind every time the tap is turned on.



### Flexible hoses

Flexible, kink-resistant and WRAS-approved, ensuring safe, uncontaminated conveyance of hot and cold potable water in commercial and domestic settings.



### Inlet filters

Reliably prevents sand, gravel and harmful particles from reaching the system, with a square mesh that allows a uniform water flow and minimises the possibility of clogging. RP1 and NPT1 compatible.



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