



Rainwater harvesting
The complete system

The convenient solution
for the family home

OPTIMA rainwater unit

- With automatic mains water top-up
- Numerous individual devices combined to form a single coordinated package
- Reliable, user-friendly, cost-saving system
- Innovative, hydromechanical operating principle
- Supplied ready to connect
- Energy-efficient technology, consumes less than 0.2 watts in standby operation



Indoors...

- Pump for generating pressure for rainwater distribution network
- Optional: pneumatic level indicator
- Fully automatic mains water top-up when required



Optima with cover

...in the storage tank

- Loading pump with float switch
- Floating fine suction filter



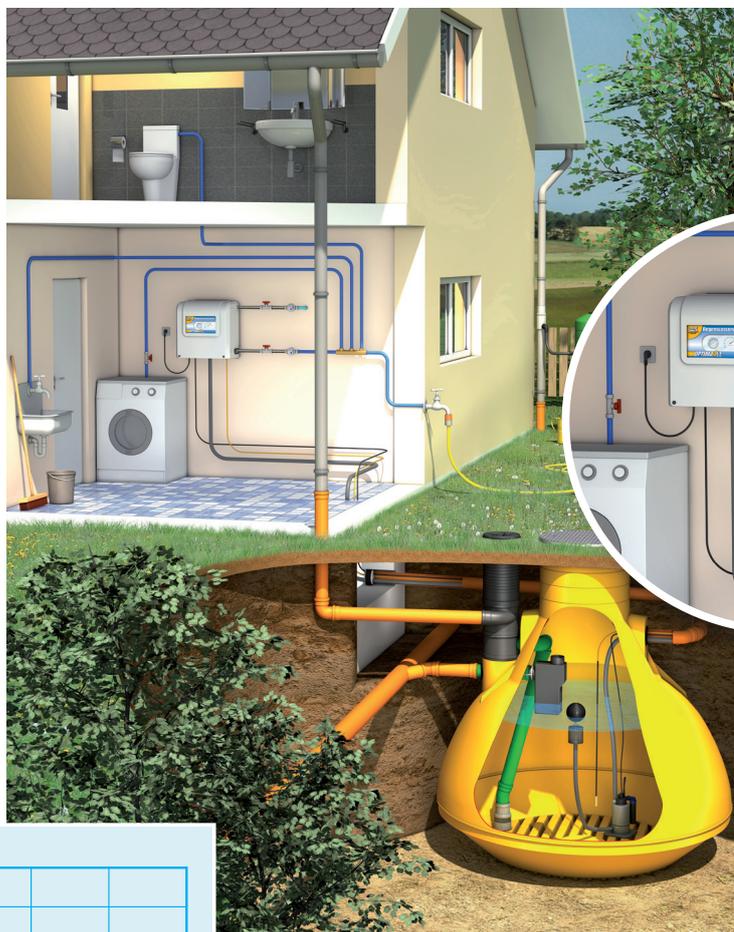
Fully automatic rainwater unit for supplying a family home with rainwater.

The unit draws rainwater from a storage tank and feeds it under pressure into the rainwater supply circuit. The unit controls the entire rainwater supply system, checks the fill level of the storage tank and automatically switches over to mains water operation when required.

Supplied ready to connect. Complies with DIN 1989 and DIN EN 1717

The full Optima package includes the following:

- Non-self-priming, multi-stage centrifugal pump and automatic switch, available in two different versions (4 or 5 bar), with or without level indicator
- Pressure gauge (pressure indicator)
- DIN-compliant mains water top-up function, integral 9-litre tank, safety emergency overflow
- Cover
- Submersible feed pump for the storage tank with floating fine suction filter
- Supplied ready to connect, complies with DIN 1989 and DIN EN 1717



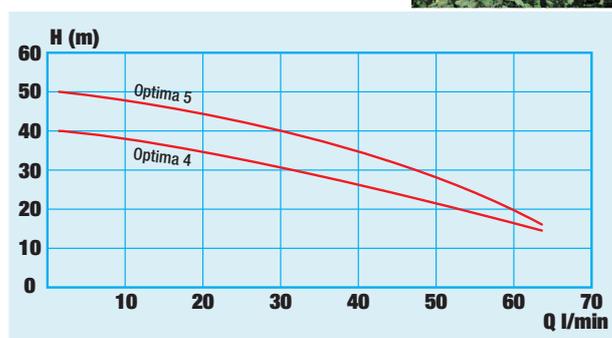
The utility room or basement is the ideal installation location for the Optima rainwater unit. The simple, rugged system components require minimal maintenance.



Dimensions:
W x H x D / mm
500 x 510 x 315

Mounting location:
Wall mounted above
the backflow level

Optima 4 / 5



Operating characteristic
at 2850 rpm, 50 Hz

Operating principle

Hydromechanical control system

The hydromechanical control system combines „traditional“ control by automatic switch with the utilization of mechanical flow effects in order to ensure a high level of operational reliability. The Optima system operates with two pressure pumps.

Loading pump

The Optima's (submersible) loading pump is installed in the storage tank. It pumps the rainwater to the non-self-priming centrifugal pump in the Optima wall unit. As a result of the admission pressure, the centrifugal pump is required only to pump and the mains water top-up inlet pipe remains closed.

Two-pump system

Thanks to the two-pump system, the Optima is the ideal solution for difficult installation conditions, for example, when there are long distances or large height differentials between the storage tank and the wall unit inside the house. If a valve at an appliance is opened, the automatic switch responds and both pumps work together to supply the maximum volumetric flow of around 70 litres/min.

Mains water top-up

If the storage tank is empty, the Optima system automatically switches over to mains water supply. The system can be manually switched over at any time by disconnection of the mains plug of the loading pump. The internal 9-litre top-up tank is equipped with an additional emergency overflow. The mains water top-up system is implemented as an open outlet in accordance with DIN EN 1717

Level indicator / pressure gauge

A pressure gauge indicates the current system pressure of the rainwater unit. The level indicator works according to a pneumatic measuring principle.



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