

# Water Management Solutions

From the leaders within the industry

# Rainwater Harvesting

Eco-Vat Rainwater Harvesting from Polypipe providing long term sustainable solutions.



## Rainwater Harvesting

Rainwater harvesting solutions collect water where it falls (rather than forcing it to drain away where it can add to flooding problems) and also reduces the demand for treated mains water by re-using the harvested water for activities such as garden watering, toilet flushing and clothes washing.

## Eco-Vat

The Eco-Vat solution features a large tank (or battery of tanks) which stores rainwater collected from roof areas ready for re-use in non-potable applications, reducing the volume of surface water run-off on new developments on both green and brown field sites.

## Applications

Polypipe WMS are able to offer economical Eco-Vat systems to suit both the housing and Commercial, Industrial Retail sectors. Standard 3,000 and 5,000 litre package systems are manufactured for the individual housing market with higher capacity, bespoke systems available to suit both multiple property developments and Commercial, Industrial Retail projects.

# Rainwater Harvesting

Eco-Vat solutions for the residential and commercial, industrial and retail markets

## Installation

All internal tank plumbing and electrical connections are factory fitted on a convenient lift-out service plate which may be supplied separately for a second phase of installation to reduce site damage and spread the cost.

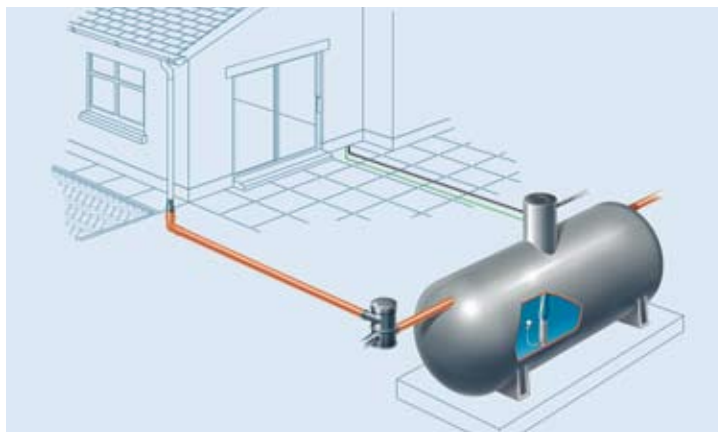
## Maintenance

Eco-Vat pumps and control systems are guaranteed for two years. The system requires minimal maintenance consisting of cleaning the easily accessible filters every six to twelve months under normal conditions. It incorporates an automatic changeover to mains water when the supply of rainwater is exhausted, and an optional duty/stand-by pump set. Polypipe Water Management Solutions offers on-site training for the maintenance engineer during the commissioning visit and/or appropriate maintenance packages.

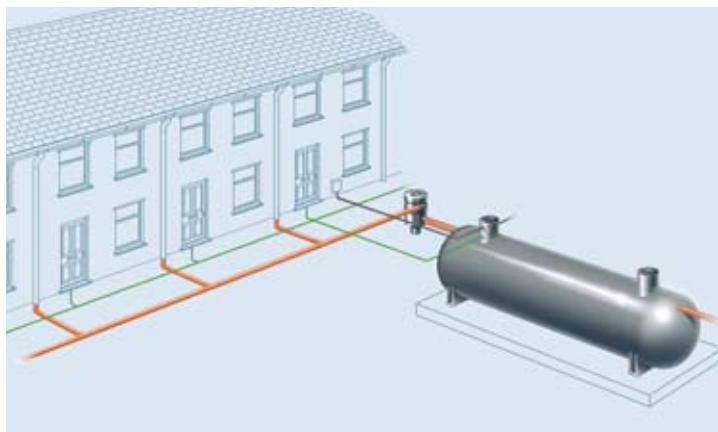
## Safety

If the supply of rainwater should run out, the Eco-Vat system automatically switches over to mains backup. However the Eco-Vat system is the only system on the market to incorporate two safety devices to ensure that the tank only fills up to the bare minimum. Therefore eliminating any problems with overflow of tank from mains water.

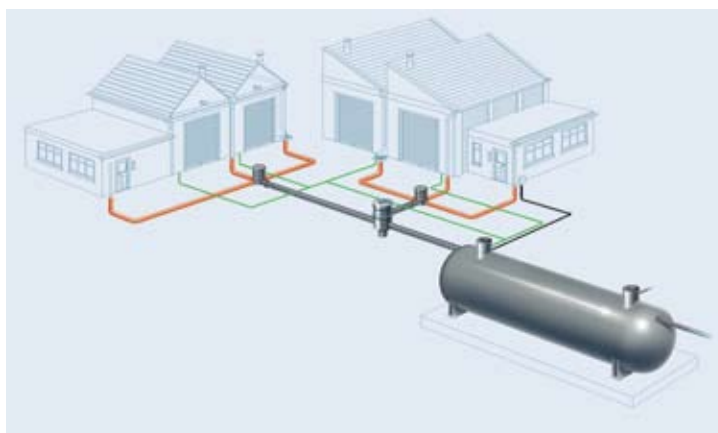
### On-Plot Residential Rainwater Harvesting Solution



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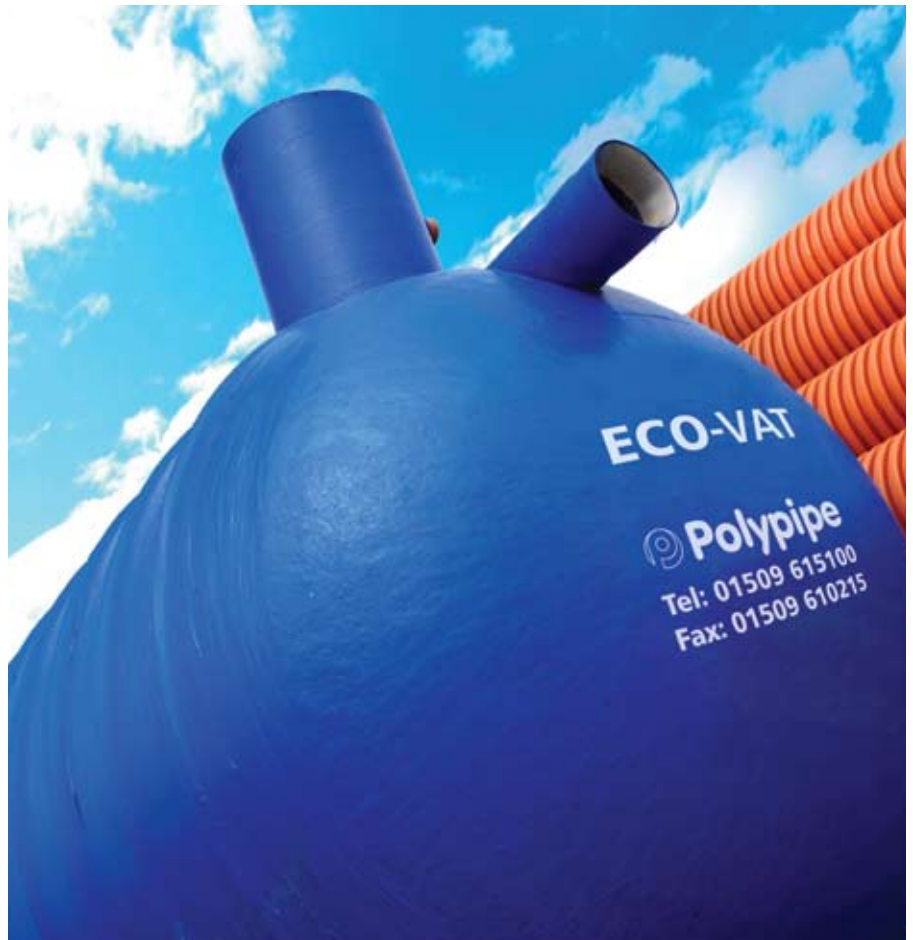
### Commercial / Industrial / Retail Rainwater Harvesting Solution




# Rainwater Harvesting

## System Selection

Eco-Vat systems are manufactured to precise specifications, assured by our comprehensive quality management system, Eco-Vat was the first rainwater harvesting system to be certified by the British Board of Agrément. This independent third party accreditation allows developers to gain a NHBC certificate on the product.



### Key Benefits of Eco-Vat

- BBA certified allowing developers to gain NHBC on the product. 
- Tank supplied complete with filters, pump, valves, and factory fitted inlet and outlet connections.
- Full range of tank sizes, manifold systems and overflow management systems to serve individual or multiple properties.
- Can be integrated into Building Management Systems for control/alarm.
- Eco-Vat tanks are available from 1500 litre to 120,000 litre capacity. Please consult our technical team who will be pleased to discuss your requirements in detail.
- Eco-Vat systems can be designed to incorporate stormwater attenuation as individual stand alone systems or in conjunction with other devices such as Polystorm cells and Ridgistorm attenuation tanks to drastically reduce peak discharges.
- Reduction in domestic mains usage by as much as 50% with running costs typically 3p per cubic metre of water supplied.
- Savings on industrial and commercial developments are typically much greater than domestic applications due to increased use of water combined with larger roof catchment areas.
- Polypipe Water Management Solutions offer full maintenance and training packages.

# Rainwater Harvesting

## System Selection

### STANDARD LEAF FILTERS

| Code      | Description   |
|-----------|---|
| ECVLFV1CH | Maintenance-free Leaf Filter in chamber for roof areas up to 450m <sup>2</sup>  |
| ECVLFV2CH | Maintenance-free Leaf Filter in chamber for roof areas up to 1150m <sup>2</sup> |
| ECVLFV3CH | Maintenance-free Leaf Filter in chamber for roof areas up to 1500m <sup>2</sup> |
| ECVLFV4CH | Maintenance-free Leaf Filter in chamber for roof areas up to 2300m <sup>2</sup> |
| ECVLFV6CH | Maintenance-free Leaf Filter in chamber for roof areas up to 3000m <sup>2</sup> |

### LOW HEAD LOSS LEAF FILTERS

| Code    | Description  |
|---------|--|
| ECVLFPP | Maintenance-free Leaf Filter in chamber for low head loss situations |

1 filter equals a roof area of 150m<sup>2</sup>, please order the correct number of filters to meet the required roof area. Please contact our Technical department for further details.

### ABOVE GROUND LEAF FILTERS

| Code     | Description   |
|----------|---|
| ECVLF100 | Above Ground Leaf Filter for roof areas up to 200m <sup>2</sup> |
| ECVLF150 | Above Ground Leaf Filter for roof areas up to 500m <sup>2</sup> |

### TANKS

| Code     | Description                         |
|----------|-------------------------------------|
| ECVT1.5  | 1500 litre below ground tank        |
| ECVT3    | 3000 litre below ground tank        |
| ECVT5    | 5000 litre below ground tank        |
| ECVT12   | 12000 litre GRP below ground tank   |
| ECVT13.6 | 13600 litre GRP below ground tank   |
| ECVT15   | 15000 litre GRP below ground tank   |
| ECVT18   | 18000 litre GRP below ground tank   |
| ECVT22.5 | 22500 litre GRP below ground tank   |
| ECVT27   | 27000 litre GRP below ground tank   |
| ECVT36   | 36000 litre GRP below ground tank   |
| ECVT45   | 45000 litre GRP below ground tank   |
| ECVT54   | 54000 litre GRP below ground tank   |
| ECVT80   | 80000 litre GRP below ground tank   |
| WST3A    | 100,000 litre GRP below ground tank |
| WST5A    | 120,000 litre GRP below ground tank |
| ECVT100  | 3000 litre Water above ground tank  |
| ECVT120  | 5000 litre Water above ground tank  |

### COMPONENT SETS

| Code       | Description           |
|------------|-----------------------|
| ECVG-A     | Gravity Component     |
| ECVP-A     | Pressurised Component |
| ECV1/18/80 | Irrigation Component  |

### UV FILTERS

| Code       | Description                                |
|------------|--|
| ECVUVIP15N | PVC UV Filter 8 litres/minute              |
| ECVUVIP30N | PVC UV Filter 19 litres/minute             |
| ECVUVIP55N | PVC UV Filter 54 litres/minute             |
| ECVUVIS55N | Stainless Steel UV Filter 54 litres/minute |

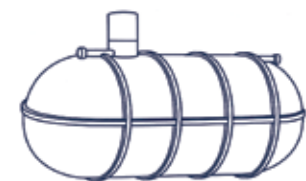
### ACCESSORIES

| Code      | Description                             |
|-----------|---|
| ECVMT     | Marker Tape for recycled water pipework |
| 10033     | 120 Micron inline filter                |
| 10005A    | 220 Micron floating filter              |
| ECV/OMS/3 | Overflow Management System              |

### System Selection

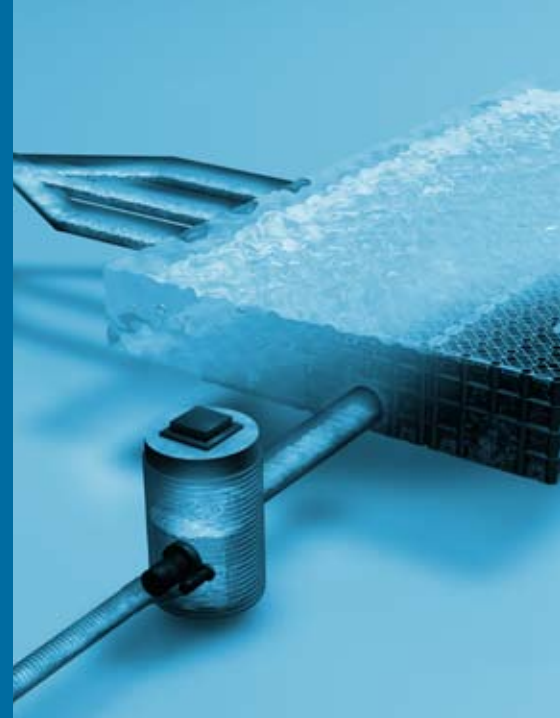
A complete system will include the following items:

- Leaf filter appropriate for roof area.
- Tank, sized appropriately.
- Components to suit, depending on application.
  - Gravity system
  - Pressurised system
  - Irrigation system
- Optional UV Filter for use where additional treatment is required.



1500 litre systems and above.

A full range of risers and header tanks are available upon request, please contact our technical team on 01509 615100



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# Water Management Solutions

The solutions, technology, service, support, technical expertise, the leaders within the industry

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