# EcoCube
# RWH SYSTEM

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# EcoCube System Applications

## Designed to provide filtered rainwater in a variety of applications

**Toilets and Urinals**
**Laundry Washing**
**Irrigation and Agricultural**
**Vehicle Washdown and Cleaning**
**Manufacturing**

## PRODUCT OVERVIEW

The EcoCube is a self-contained, pre-assembled rainwater harvesting system that is available in three different sizes; 2000 litres, 3375 litres and 4500 litres with a range of larger options available upon request. The EcoCube can be installed as both a permanent installation or portable for use at different sites.

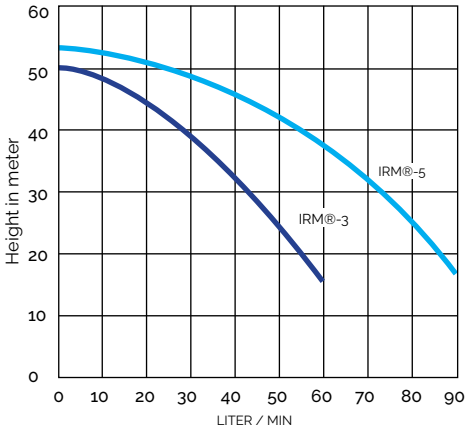
The EcoCube comes with all pumps, filters, and and controls in one unit. This allows for a simple and straightforward installation with true 'plug and play' functionality.

Our EcoCube system can be used across various vertical markets and multiple building types. The system is perfectly suited for both new builds and existing retrofit sites.

## PRODUCT FEATURES

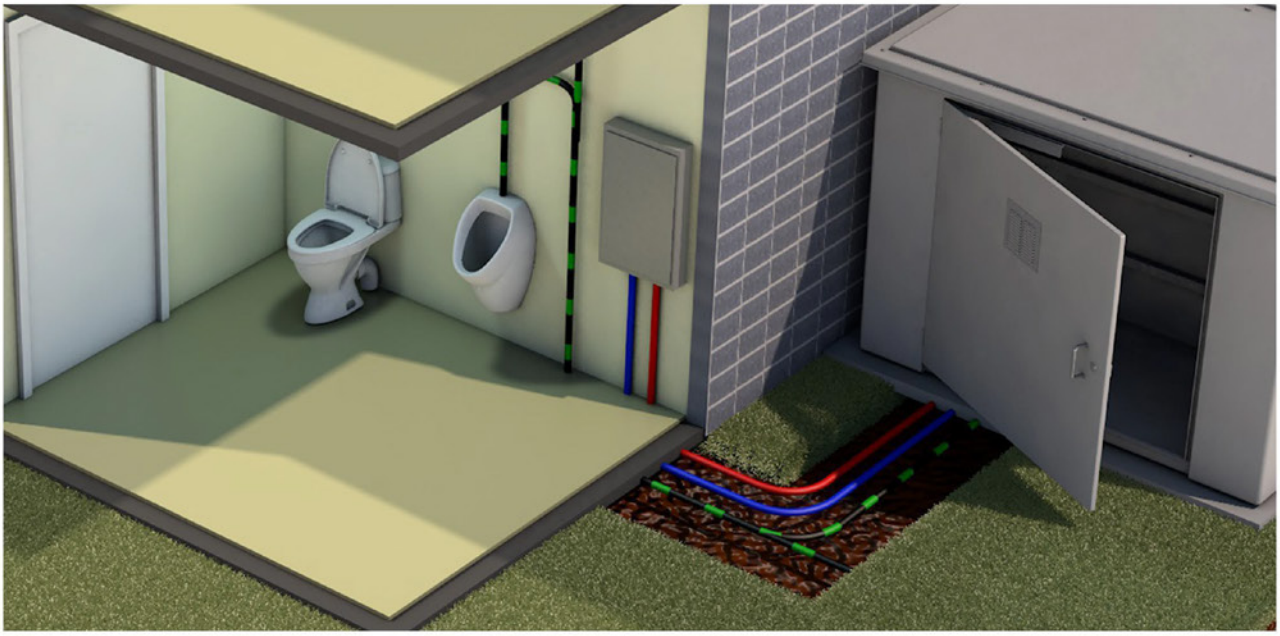
- Equipped with anti-odour siphon
- Auto checking of valves every 24 hours
- Auto changing of water every week
- Wall mount bracket
- Water level sensor with 20m cable
- Rainwater is used as priority over mains
- Pressure and flow control
- Designated terminal area
- Full "start-stop" system
- LCD panel with fault reporting

## PUMP CURVE




## SYSTEM DETAILS

| Capacity (L) | 2000 |
|---|---|
| Dimensions (mm) | 1343 H x 1410 W x 2610 L |
| Weight (kg) | 600 |
| Colour | Grey |
| Rainwater Inlet Size | 110mm |
| Rainwater Overflow Size | 110mm |
| Pump Discharge | 1" |
| Power | 1.1kW / 1.3kW |
| Voltage | 220 - 240v |
| Pump Type | IRM 3 / IRM 5 |



## PRODUCT LOCATION

The EcoCube should be installed externally and within close proximity to your chosen building. Ideally the EcoCube should be close to all down pipes so that water from the roof area can be easily collected.

The EcoCube should be installed on a level concrete foundation which is capable of holding the full weight of the system when full with water.

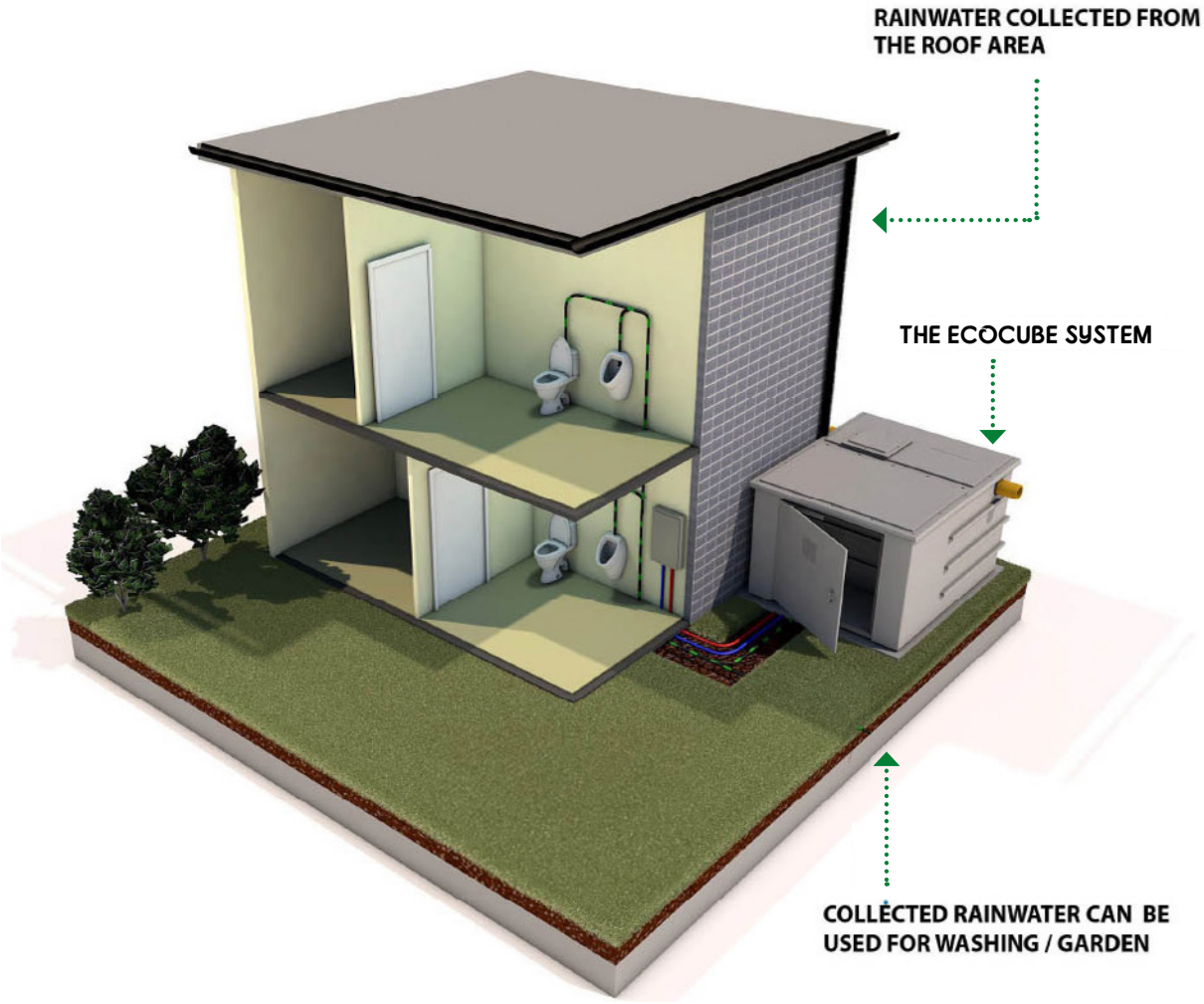
Ample room for different pump conifigurations

## EcoCube SERVICES

The EcoCube system has been designed to supply direct, pressurised water to your installed appliances through the use of a single pump which is mounted away from the stored water container. The EcoCube will require the following serves:

- Incoming rainwater supply from the roof
- The tank overflow should be fitted to a soak away or storm drain
- Mains electrical supply
- Mains water supply for system top-up in low rainfall periods.
- Pressurised rainwater from the system booster pump feed.
- Control unit emergency warning pipe should be fitted so overflows are visible

## EXAMPLE LAYOUT




## PIPEWORK AND CABLES

The above images shows a range of pipework and cables, the key for these is below:-

- Mains Water Supply for Top Up
- Power Supply Cable
- Pressurised Rainwater Supply

Disclaimer: This diagram is to be used as a general overview of a typical rainwater harvesting system layout. It is not site specific and should'nt be relied upon for technical submittal or guidance.

## INTELLIGENT PUMP CONTROLLER

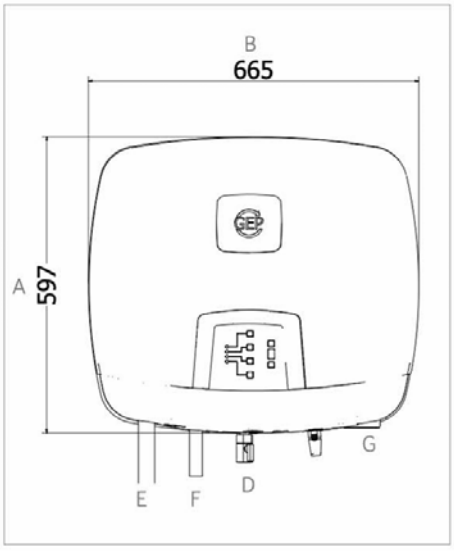
The control unit is desinged as a plug-in, compact system for use in the EcoCube. It is ideally suited to commercial applications.

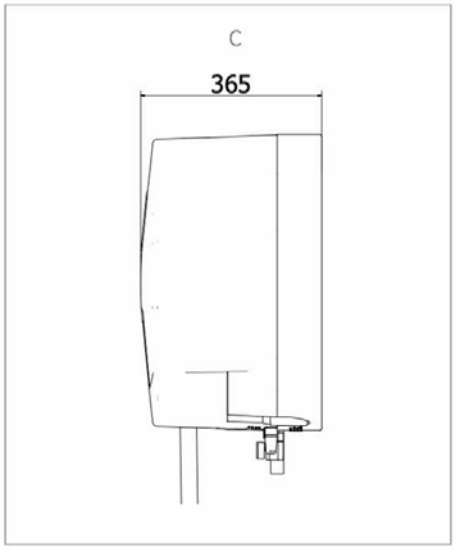
The control unit has an integrated 7 litre break tank which is in accordance with EN1717 standards.

The system comes with an integrated, self-priming pump with automatic pressure control and motor controlled ball valve that switches between the rainwater and drinking water operation.

The system is compact and whisper quiet thanks to the sound-proof EPP housing.

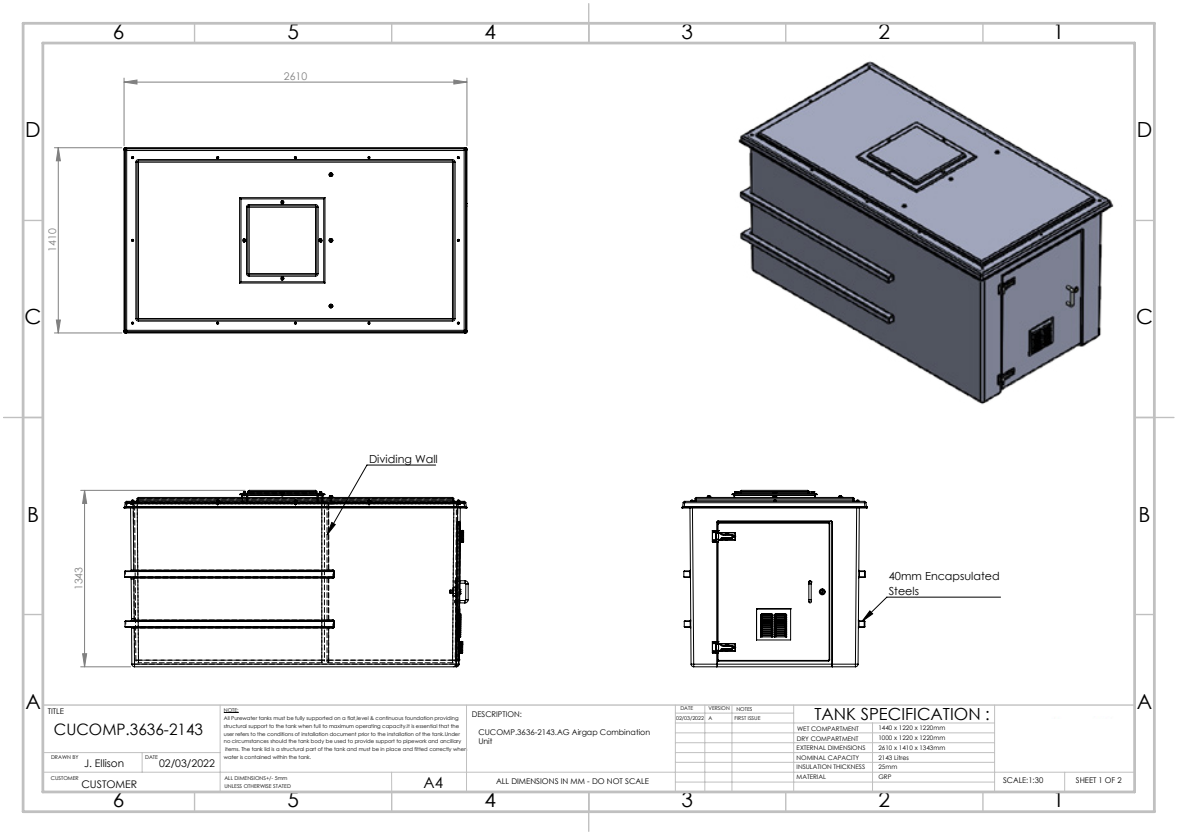
The system is fully Kiwa certified as standard.



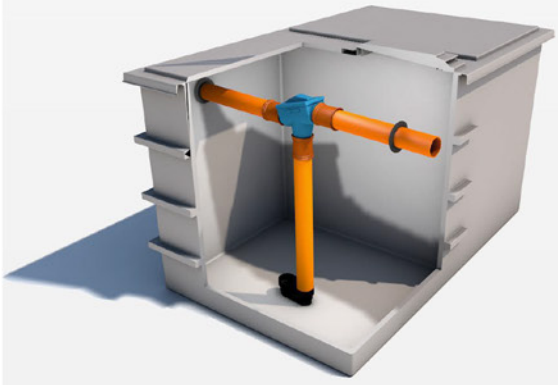




| Technical Data | | Technical Data | IRM-3 | IRM-5 | Material | L |
|---|---|---|---|---|---|---|
| Height A in mm | 596 | Voltage in V | 135 | 135 | Insulating Hood | EPP |
| Width B in mm | 662 | Power in Watt | 1100 | 1350 | Breaktank | HDPE |
| Depth C in mm | 365 | Max flow in litres per min | 60 | 90 | Impellers | RVS |
| Drinking Water Connection D | 3/4" | Max Pumping Height in m | 50 | 53 | Pump Housing | RVS |
| Suction Pipe E | 1" | Weight in kg | 33 | 33 | Motor Housing | RVS |
| Pressure Line F | 1" | Number Fans | 5 | 5 | Air Separator | PPO |
| Emergency Overflow G in mm | 75 | Condensator in UF | 20 | 25 | | |
| Breaktank Volume in Litres | 7 | | | | | |

## UNIT DRAWING 2000L



## EcoCube RENDERINGS



view of integrated Patronen filter.

# To find out more

**Visit our website**
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