

# COMMERCIAL RAINWATER HARVESTING SOLUTIONS



OVER  
**85%**

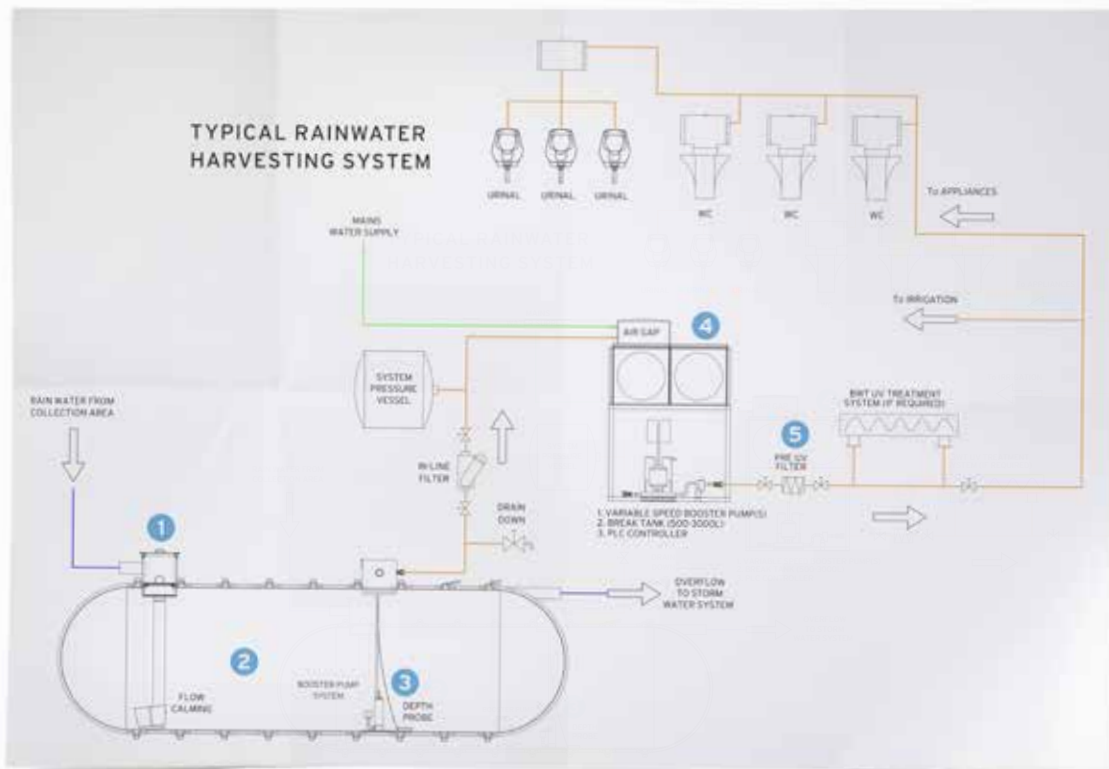
OF WATER FOR COMMERCIAL BUILDINGS  
CAN COME FROM RAINWATER

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One of the world's largest and most experienced providers of rainwater harvesting systems, we have a proven track record spanning more than 10 years and a range of solutions comprehensive enough to work within any roof area or application. They are easy to install and run and maintenance costs are low. The volumes are significant enough to make radical savings in most types and sizes of building, from courts to prisons, airports and hospitals, hotels, sports complexes and shopping centers, as well as farms and factories where it can be used for irrigation and washdowns. A combination of low water usage and harvesting enables these buildings to use less water and to minimize pressure on the water mains, reducing running costs.

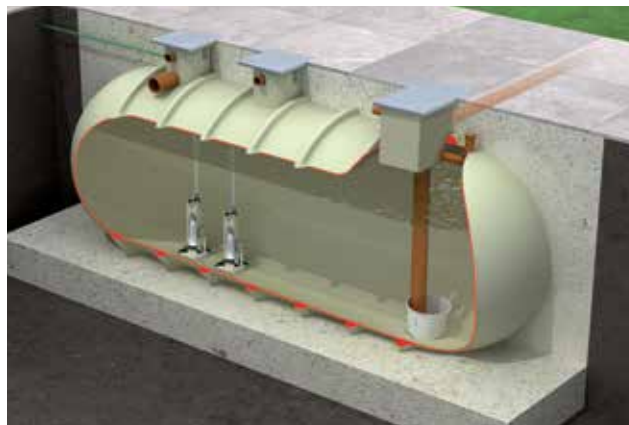
# THE COMPLETE SYSTEM

Designed to be as user-friendly as possible, the system utilizes much of the existing pipework within the building. The main requirement being the installation of a rainwater storage tank with internal pump, selected to meet the roof areas water catchment yield and building requirements.



## COMPONENTS

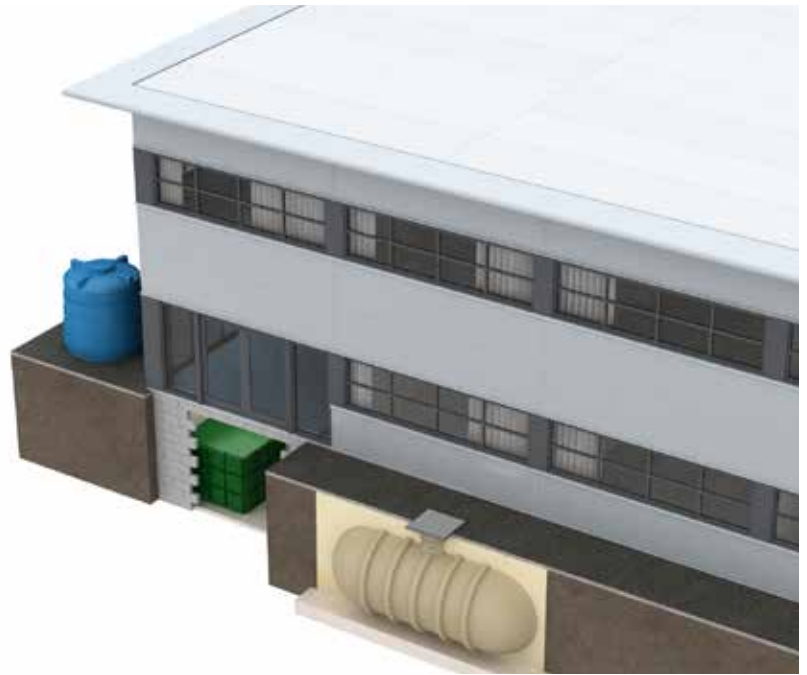
1. First Flush Debris Filter
2. GRP Water storage tank:  
C/W flow calming device  
and Submersible pump
3. Submersible pump and level probe
4. Skid Mounted Booster Pump  
System C/W Variable speed  
pumps, Day Tank & PLC Controller:
  - a. BACNet/Modbus Compatible
  - b. UL Listed
  - c. Data Logging
  - d. Compatible with 4-20mA  
Sensors 4-20mA sensors



## BENEFITS

- » Easy to install
- » Simple to maintain
- » Automatic in operation
- » Complete packaged units  
delivered directly to site
- » Multiple tanks can be joined to  
provide for larger volumes

# FULLY INTEGRATED TURN-KEY SYSTEM AND DESIGN



At Kingspan Water we aim not just to manufacture and supply high quality rainwater harvesting systems, but provide engineering, support and service that is second to none throughout your project – offering the ultimate, single-source rainwater harvesting solution.



## COMPLETE SIZING AND ENGINEERING SUPPORT

Our experienced design engineers are up to date with building regulations and can help you assemble a solution regardless of your onsite challenges:

- › Flexible systems with many options
- › No need to source individual components
- › Pre-engineered solutions to save time

## QUICK GUIDE

How much rainwater can you collect?

1 square foot of catchment area  
x 1 inch of rainfall =  
0.6 gallons of water

Source: ARCSA



# WHY RAINWATER HARVESTING?

Harvesting rainwater is one of the simplest of ways in which we can live sustainably with nature. A rainwater harvesting system works by taking the rain from roof gutters, filtering out leaves and debris and storing the water in an underground tank.

Here at Kingspan Environmental we have been designing and installing rainwater harvesting systems for over a decade. While we continue to follow the principles of rainwater harvesting, our systems have evolved through our knowledge, experience and the latest technology.

## USES OF KINGSPAN WATER SYSTEMS

- › Irrigating landscapes
- › Public fountains
- › Washing vehicles
- › Flushing toilets
- › Laundry systems
- › Onsite water storage for fire suppression
- › Commercial process water
- › Agricultural process water



## BENEFITS

- › The water is free
- › Reduces consumers' utility bills
- › The end use of harvested water is located close to the source, eliminating the need for complex and costly distribution systems
- › A water source when groundwater is unacceptable or unavailable
- › Reduces flow to stormwater drains

## BUSINESS CASE

- › Harvesting LEED points – A well designed rainwater harvesting system can help to receive one-third of points needed for LEED certification.

Our solutions are eligible for

- › Sustainable Sites Credits
- › Water Efficiency Credits
- › Innovation and Design Credits



- › Safeguard business operations – Ensure continuous operations during times of drought, water-use bans, or other restrictions
- › Lower water bills
- › Demonstrate commitment to sustainability



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