

# WATER AND WASTEWATER TREATMENT



# Septic tanks

Harlequin Septic Tanks are fully compliant with EN-12566 Part 1 and are available for use where an effluent treatment plant is not required.

Harlequin Septic Tanks have been manufactured for over 20 years using premium durable polyethylene for ease of installation.

Previously Balmoral Septic Tanks, this range has an established reputation for the highest quality available on the market.

\* Actual product color may vary from color shown on this brochure.

Specifications	ST27	ST38	ST45	ST60
Population served	1-5	6-12	13-16	17-26
Max hydraulic load (l/day)	800	2000	2800	4400
Organic load (g BOD <sub>5</sub> /day)	n/a	n/a	n/a	n/a
NH <sub>3</sub> (g/per day)	n/a	n/a	n/a	n/a
Total capacity (litres)	2700	3800	4500	6000
Diameter (mm)	1840	2045	2165	2365
Height to ground level (mm)	2400	2640	2770	3005
Empty plant weight (kg)	197	240	275	335
Energy usage (kWh/day)	0	0	0	0
Desludging interval (months)	12	12	12	12



# Harlequin® HydroClear

## SEWAGE TREATMENT PLANT

HydroClear Waste Water Treatment Plants are fully compliant with EN-12566 Part 3 with a market leading pollutant removal level of 97%.

- Key benefits:
- Lower operating costs
  - Easy installation
  - Power failure default
  - Odour minimisation
  - 6-50-pop options
  - Virtually silent



Specifications	HC6	HC12	HC20	HC30	HC40	HC50
Population served	1-6	7-12	13-20	21-30	31-40	41-50
Max hydraulic load (l/day)	1200	2400	4000	6000	8000	10000
Organic load (g BOD <sub>5</sub> /day)	360	720	1200	1800	2400	3000
NH <sub>3</sub> (g/per day)	48	96	160	240	320	400
Total capacity (litres)	4440	5950	7960	11410	14920	18400
Length (mm)	3400	4500	5680	9600 <sub>min</sub>	10780 <sub>min</sub>	14780 <sub>min</sub>
Width (mm)	1250	1400	1400	1400	1400	1400
Height to ground level (mm)	2450	2450	2450	2450	2450	2450
Empty plant weight (kg)	450	550	700	1030	1190	1590
Energy usage (kWh/day)	1.8	2.5	2.7	3.6	5.2	5.7
Desludging interval (months)	12	9	6	6	6	6

# Aboveground Water Storage Tanks

Harlequin have provided a premium quality range of potable and non-potable for over 20 years.

The wide range of sizes available includes the popular larger tanks for commercial applications and small slimline tanks convenient for domestic applications.

All tanks are provided with a moulded-in 2" BSP (F) insert. 2" connections are sold separately.



WRAS  
APPROVED  
PRODUCT

Above ground tanks*	Capacity (litres)	Length (mm)	Width (mm)	Height (mm)
NP/PW920SL	865	1530	715	1165
NP/PW1100SL	1095	1650	690	1420
NP/PW1200LP	1250	1800	1320	915
NP/PW1400VT	1365	1300	1300	1320
NP/PW1800VT	1800	1400	1400	1500
NP/PW2700VT	2600	1580	1580	1665
NP/PW3800VT	3635	1800	1800	1778
NP/PW5700VT	5455	2000	2000	2100
NP/PW7500VT	7270	2085	2085	2426
NP/PW10000VT	10000	2330	2330	2920

\* Use code NP for non-potable water tanks; PW for potable water tanks.

# Underground Water Storage Tanks

Underground water tanks provide discreet storage of water. They are a popular option for small gardens and sensitive landscapes.

The underground water tanks are light weight and easy to maintain, low maintenance and corrosion resistant.

If you require a tank that doesn't occupy space in your garden, or have restricted space, then an underground tank is the natural choice.



Underground tanks	Capacity (litres)	Length (mm)	Width (mm)	Height (mm)
UG1370	1370	1900	1150	1969
UG2410	2410	2350	1350	2171
UG3090	3090	3200	1350	2171
UG4500	4500	2165	2165	2770
UG6000	6000	2365	2365	3005





Rainwater harvesting systems reduce the demand for mains water provision. Many springs and rivers are naturally fed by groundwater and are important for wetlands and their ecosystems. More than 25% of groundwater sources are at risk because of abstraction pressures.

By gathering and recycling rainwater, harvesting systems reduce the volume of discharged rainwater and contribute to reduced flood risks. The loading on combined sewer overflows is also lowered resulting in improved river water quality.

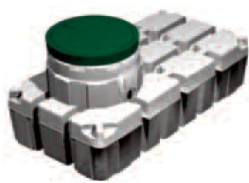
### Tank capacity options

Two tank sizes are currently available in the HydroStore range: 1500 and 2900 litres. If greater storage capacity is required the tanks are easily linked together. For instance the 1500 and 2900 tanks can be linked to provide a working capacity of 4400 litres.

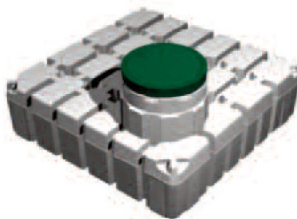
Using the linking option, only one tank needs to be fitted with inner components while the other(s) perform merely as holding vessels.

All tanks are produced as standard with 2" moulded-in outlets meaning that only a length of pipe and two threaded fittings are required to complete the link.

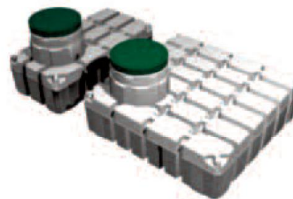
\* Actual product colour may vary from colour shown on this brochure.



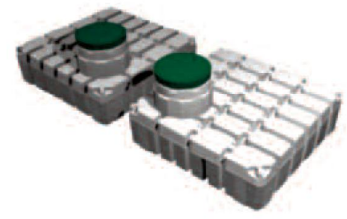
1500L tank



2900L tank



1500+2900L tanks



2900+2900L tanks

HydroStore	H1500	H2900
Capacity (litres)	1500	2900
Length (mm)	2400	2400
Width (mm)	1200	2400
Height (mm)	1250	1250
Empty tank weight (kg)	110	200
Inlet invert (mm)	500 (Can be extended)	500 (Can be extended)
Pipework fitting (mm)	Ø110	Ø110
Filter checking interval	12 months	12 months

Other rainwater storage products are available if installation does not permit the use of linked tanks. Available in two capacities, 4500L and 6000L, these tanks use the same internal components as the HydroStore and provide similar services, ie, Garden Harvest, Home Harvest Direct and Home Harvest Direct.



RWH-ST	H4500	H6000
Capacity (litres)	4546	6000
Diameter (mm)	Ø2165	Ø2365
Height (mm)	2770	3005
Footprint (mm)	Ø1275	Ø1275
Empty tank weight (kg)	260	310
Inlet invert (mm)	830 (Can be reduced)	830 (Can be reduced)
Pipework fitting (mm)	Ø110	Ø110
Filter checking interval	12 months	12 months

### Rainwater distribution

There are three options available for water distribution:



#### 1 Garden Harvest

A very simple system that allows the connection of a hose to the pump within the tank to provide water for irrigating lawns, gardens and car washing.

#### 2 Home Harvest Direct

When supply of rainwater is exhausted, the 'Backup in a Box' unit uses mains water to replenish the tank. The pump in the tank is then ensured of a constant supply of water to feed washing machines, toilets, garden taps, etc.



#### 3 Home Harvest Gravity

Using the Rain Director system, rainwater is pumped to a header tank where gravity distributes it to the required water appliances. This minimises pump on/off cycling, reducing electrical cost and wear on the pump. The system also ensures that the rainwater tank is replenished with mains water once the stored rainwater is exhausted.



## Harlequin

Harlequin Tanks, established in 1981, is today one of Europe's leading manufacturers of rotationally moulded storage products.

With a wide range of different models and capacities available, there is sure to be a tank to suit almost any agricultural, commercial, domestic or industrial installation.

Harlequin tanks are sold in more than 20 countries worldwide, complying with local and national regulations when relevant.

Visit [www.harlequinplastics.co.uk](http://www.harlequinplastics.co.uk) for a comprehensive overview of the company and its products.

### Other Harlequin Tanks products

- Bunded Oil Tanks & Fuel Dispensing Tanks
- Waste Oil Tanks
- Adblue Storage & Dispensing Tanks
- Bunker Storage
- Steel Tanks

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