

WATER AND WASTEWATER TREATMENT

www.balmoraltanks.com

Wastewater treatment plant



Rainwater harvesting systems



Water storage



Septic tanks

A septic tank is designed to provide what is known as primary treatment to crude wastewater produced in a normal domestic environment. It retains solids and allows them to settle out, where they can be partially broken down by biological action so that only the remaining liquor is left to flow down the outlet drain. This liquor (normally called effluent) is then sufficiently treated to soak into the ground in an underground soakaway system.



Specifications	BST27 BST27-WLID-NN	BST38 BST38-WLID-NN	BST45 BST45-WLID-NN	BST60 BST60-WLID-NN
Population served	1-4	5-10	11-14	15-22
Max hydraulic load (l/day)	800	2000	2800	4400
Organic load (g BODs/day)	n/a	n/a	n/a	n/a
NH ₃ (g/per day)	n/a	n/a	n/a	n/a
Total capacity (litres)	2700	3800	4500	6000
Diameter (mm)	1840	2045	2165	2365
Overall height (mm)	2515	2755	2885	3120
Empty plant weight (kg)	197	240	275	335
Energy usage (kWh/day)	0	0	0	0
Desludging interval (months)	12	12	12	12

Balmoral CAP

Balmoral's best selling sewage treatment plant is universally popular across the UK and the Republic of Ireland and provides full treatment to crude sewage produced in normal domestic situations.

Balmoral CAP effluent can be discharged directly into a watercourse without having to pass through a soakaway.



Specifications	CAP6 BCAP-6-NN	CAP6 low invert BCAP-6-NN-LINV	CAP12 BCAP-12-NN	CAP12 low invert BCAP-12-NN-LINV
Population served	1-6	1-6	7-12	7-12
Max hydraulic load (l/day)	1200	1200	2400	2400
Organic load (g BODs/day)	360	360	720	720
NH ₃ (g/per day)	48	48	96	96
Total capacity (litres)	3800	3800	6000	6000
Diameter (mm)	2045	2045	2365	2365
Overall height (mm)	2785	2515	3150	2880
Empty plant weight (kg)	250	250	345	345
Energy usage (kWh/day)	1.4	1.4	1.8	1.8
Desludging interval (months)	12	12	12	12

Balmoral HydroClear™

With a market-leading pollutant removal level of 97%, the CE-marked HydroClear is easy to install and cost effective to maintain.

Balmoral HydroClear effluent can be discharged directly into a watercourse without having to pass through a soakaway.



Specifications	HC6 BHYD-6	HC12 BHYD-12	HC20 BHYD-20	HC30 BHYD-30	HC40 BHYD-40	HC50 BHYD-50
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 BODs/day)	360	720	1200	1800	2400	3000
NH ₃ (g/per day)	48	96	160	240	320	400
Total capacity (litres)	4440	5950	7960	11410	14920	18400
Length (mm)	3400	4500	5680	9600 _{min}	10780 _{min}	14780 _{min}
Width (mm)	1250	1400	1400	1400	1400	1400
Height (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

Balmoral SBR

A flexible high-end product the Sequential Batch Reactor is designed to provide full biological treatment to wastewater of variable flows from commercial sources. Highly adaptable, the SBR can be optimised to provide customised solutions to a variety of non-domestic requirements.

Balmoral SBR effluent can be discharged directly into a watercourse without having to pass through a soakaway.



Specifications	SBR6 BSBR6	SBR12 BSBR12	SBR18 BSBR18	SBR24 BSBR24	SBR36 BSBR36	SBR48 BSBR48
Population served	1-6	7-12	13-18	19-24	25-36	37-48
Max hydraulic load (l/day)	1200	2400	3600	4800	7200	9600
Organic load (g BODs/day)	360	720	1080	1440	2160	2880
NH ₃ (g/per day)	48	96	144	192	288	384
Total capacity (litres)	3800	6000	12000	12000	14000	16000
Length (mm)	2045	2365	5030 _{min}	5030 _{min}	5785 _{min}	6403 _{min}
Width (mm)	2045	2365	Ø2365	Ø2365	2365	2275
Height (mm)	3005	3175	3005	3005	3005	2824
Empty plant weight (kg)	352	439	587	587	747	906
Energy usage (kWh/day)	2.16	2.16	13.3	13.3	13.3	13.3
Desludging interval (months)	12	12	6	6	6	6

For larger Balmoral SBR wastewater treatment plants please contact Balmoral Tanks or visit www.balmoraltanks.com

Balmoral Rainwater Harvesting Systems™

Save up to 50% of your metered water costs

Balmoral rainwater harvesting systems herald a new level of quality and performance in domestic rainwater recycling.

Designed for easy installation and reliable operation, each system provides the highest quality non-potable rainwater for toilet flushing, washing machines, garden irrigation and vehicle washing purposes.



Home-Harvest Rainwater System	BST-27-HH	BST-38-HH	BST-45-HH	BST-60-HH
Population served	1	2	3	4+
Total capacity (litres)	2700	3800	4500	6000
Diameter (mm)	1840	2045	2165	2365
Overall height (mm)	2515	2755	2885	3120
Footprint (mm)	Ø1275	Ø1275	Ø1275	Ø1275
Empty plant weight (kg)	180	220	250	300
Energy usage* (kWh/day)	0.25	0.25	0.25	0.25
Filter check interval (months)	2	2	2	2

Garden-Harvest Rainwater System	BST-27-GH	BST-38-GH	BST-45-GH	BST-60-GH
Population served	1	2	3	4+
Total capacity (litres)	2700	3800	4500	6000
Diameter (mm)	1840	2045	2165	2365
Overall height (mm)	2515	2755	2885	3120
Footprint (mm)	Ø1275	Ø1275	Ø1275	Ø1275
Empty plant weight (kg)	180	220	250	300
Energy usage* (kWh/day)	1	1	1	1
Filter check interval (months)	12	12	12	12

*Based on one-person average usage



Water storage tanks

Balmoral's rotationally moulded water tanks comply fully with United Kingdom water regulations.

The above ground tanks can be used for mains supplied potable water. The underground models should only be specified for non-mains supplied water or indirect mains supplied water.



Above ground tanks	Capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Product code
LP1250	1250	1800	1320	915	BWST-LP1250
V1365	1365	1300	1300	1320	BWST-V1365
V1800	1800	1400	1400	1500	BWST-V1800
V2600	2600	1580	1580	1665	BWST-V2600
H3500	3500	2800	1700	1326	BWST-H3500
V3635	3635	1800	1800	1778	BWST-V3635
V5455	5455	2000	2000	2100	BWST-V5455
V7270	7270	2085	2085	2426	BWST-V7270
V10000	10000	2330	2330	2920	BWST-V10000

Underground tanks	Capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Product code
UG1370	1370	1900	1150	1969	BWST-UG1370-B1
UG2410	2410	2350	1350	2171	BWST-UG2410-B2
UG3090	3090	3200	1350	2171	BWST-UG3090-B3

Balmoral Hydrostack

The Balmoral Hydrostack has been specifically designed for the supply of water in emergency situations. These tanks are ideally suited for use in situations such as water shortages due to summer droughts, burst water pipes or Water Authority maintenance periods where supply is temporarily "cut-off".



Balmoral Tanks Ltd

Balmoral Tanks Ltd, a division of Balmoral Group Holdings Ltd, is a leading European engineering design and manufacturing company.

As a result of significant investment in people and plant, the company produces what is believed to be the most comprehensive range of tank products available from a single source in the EU.

Civil engineering, wastewater treatment, drainage, fuel oil containment, bulk liquid and potable water storage sectors are all key sectors for the company.

Visit balmoraltanks.com for a comprehensive overview of the company and its products.

Other Balmoral Tanks products

- ▶ Wastewater treatment plant
- ▶ Rainwater harvesting systems
- ▶ Bulk liquid storage
- ▶ Chemical storage
- ▶ Potable/non-potable water storage
- ▶ Fuel oil storage and dispensing
- ▶ Trade moulding
- ▶ GRP sectional water storage
- ▶ Steel sectional water storage

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