



CAP25 Wastewater Treatment Plant

The Harlequin CAP25 is a compact sewage treatment plant designed specifically for larger domestic or small commercial installations of up to 25 people.

It is a continuous aeration plant which operates using a unique bio-media system and delivers a pollutant removal level of 96.2% whilst also combatting common problems associated with small packaged domestic plants.



Standard Features:

- ◆ Moulded from durable medium density polyethylene material
- ◆ 110mm inlet and outlet connections
- ◆ 110mm services duct
- ◆ Integrated lifting eyes for ease of handling and installation
- ◆ Fully secured 450mm diameter pedestrian duty, flush fitting manhole covers comply with statutory regulations
- ◆ Above ground air blower housing delivers more reliable and efficient operation, and allows easy access for maintenance
- ◆ Easy access to the bubble diffuser within the tank
- ◆ A MBBR system - there is no fixed media, eliminating blockages
- ◆ Virtually silent operation
- ◆ Compact size and light weight reduces installation costs
- ◆ Mechanically reliable with no moving parts or electrics within the tank
- ◆ Certified to EN12566-3



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Optional Equipment:

- ◆ Air blower function alarm
- ◆ Pumped outlet
- ◆ 300mm manhole riser(s). Max 2 risers (550mm) on a gravity tank or 1 riser (300mm) on a pumped outlet*

* Maximum invert level 2m. Use 1200mm concrete rings to achieve inverts below max. number of risers.

Technical Data:

Treatment Efficiency		Efficiency	Effluent
	COD	92.6%	64.0 mg/l
	BOD ₅	96.2%	13.0 mg/l
	NH ₄ -N	71.9%	11.2 mg/l
	N _{TOT}	58.2%	22.6 mg/l
	Phosphorus	41.0%	4.3 mg/l
	SS	96.8%	12.0 mg/l
Nominal hydraulic daily load	3,750 Litres / day		
Nominal organic daily load	1,335g BOD ₅ / day		
Inhabitants served	19 - 25		
Desludging interval	6 months *		
Electrical consumption	2.7 kWh / day		
Power requirements	230V 112W 1.0A (start-up current)		
Volumes (at operational height)	Primary settlement – 3700 Litres Aeration chamber – 2400 Litres Final settlement – 2280 Litres		
Overall dimensions	L 5680 W 1400 H 2560 mm		
Standard inlet depth	1090 mm		
Standard outlet depth	1140 mm		
Depth from invert to base	1470 mm		
Pipe diameter	110 mm		
Net Weight	700 kg		

* de-sludge interval up to 6 months depending on the number of inhabitants

Issued By:

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