



CAP9 Wastewater Treatment Plant

The Harlequin CAP9 is a compact sewage treatment plant designed specifically for domestic installations of up to 9 inhabitants (7 bedrooms).

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 combating 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 pedestrian duty, flush fitting manhole cover complies 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 on a gravity tank or 1 riser 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%	64.4 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%	12.3 mg/l
Nominal hydraulic daily load	1,350 Litres / day		
Nominal organic daily load	465g BOD ₅ / day		
Inhabitants served	6 - 9		
Desludging interval	12 months *		
Electrical consumption	1.1 kWh / day		
Power requirements	230V 76W 1.0A (start-up current)		
Volumes (at operational height)	Primary settlement – 1800 Litres Aeration chamber – 900 Litres Final settlement – 900 Litres		
Overall dimensions	Dia. 1840 mm H 2180 mm		
Standard inlet depth	550 mm		
Standard outlet depth	625 mm		
Depth from invert to base	1630 mm		
Depth from base to ground	2180 mm		
Pipe diameter	110 mm		
Net Weight	350 kg		

Issued By:

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