



A WCS Environmental
Engineering Company



English

Technicalzone



The Diamond Range

BSEN12566-32014 approval, UK and European patent granted (below ground) Diamond package wastewater (sewage) treatment range, is designed for properties (domestic and commercial) where mains drainage is unavailable.

Fully type tested and certificated in accordance with the mandatory European standard BSEN12566-32014 (<https://wpldiamond.com/wpl-diamond-certification/>) for small wastewater treatment systems.

Additional published test results:

- Total Phosphorous 3.8mg/l mean average
- Total Nitrogen 25mg/l mean average

Compact Diamond range has the flexibility to be configured to meet for various population sizes. The DMStank is 1 up to 20 population equivalent (PE) and the DMC tank is 21 up to 55 population equivalent (PE), which can be installed in 'wet' or 'dry' ground conditions, discharging safely to drainage field or watercourses.

The standard package includes a Diamond tank, kiosk, alarm beacon, blower (housed in a kiosk) and 10 metres air hose. Flexible options mentioned later on this page.

Installation

Installation manual

A comprehensive **installation manual** (<https://wpldiamond.com/useful-documents/>) is always supplied with each Diamond plant, explaining the installation process in detail and should be read thoroughly prior to installation. We recommend this should be undertaken by a qualified and experienced installer of package wastewater treatment plants.

We recommend that the installer and all sub-contractors should read the installation manual before commencing the installation to avoid loss of warranty.

Find my local installer

(<http://wpldiamond.com/find-your-local-professional/>)

Work with WCSEE

(<http://wpldiamond.com/work-with-wpl/>)



Key features

- ≡ 25 year tank warranty
- ≡ CEmark, EN12566-3 approval
- ≡ Effluent standard; as a minimum: 20mg/l BOD; 30mg/l SS; 20mg/l NH₃
- ≡ Load tested and water tight
- ≡ Tank sizes to meet individual requirements

- ≡ Part H2 UK building regs compliant
- ≡ LABC registered
- ≡ Meets General Binding rules
- ≡ Designed using British Water Code of practice flows & Loads
- ≡ Compact design, minimal excavation
- ≡ Installed in 'wet' or 'dry' ground conditions
- ≡ Flushes lid to the ground
- ≡ No moving parts within the tank
- ≡ Up to 3 years de-sludge intervals
- ≡ No odour
- ≡ Alarm beacon included
- ≡ Original WPL Diamond, patent granted
- ≡ Robust design, UK manufacture

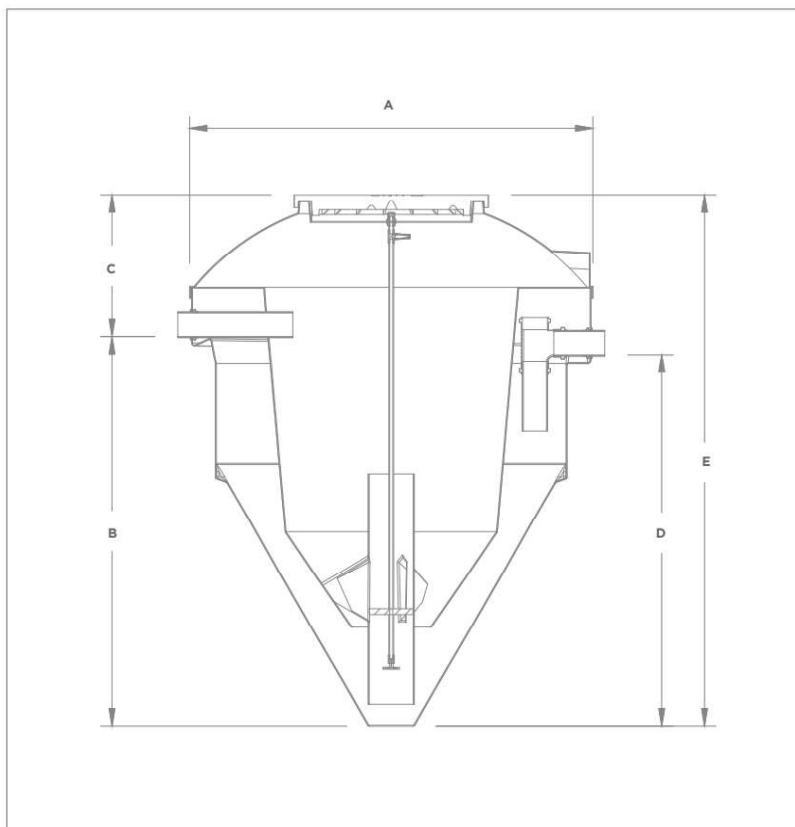
— Diamond DMS- 1 up to 20 PE —

Our reliable DMS range caters for properties housing 1 up to 20 people. Typical uses include domestic homes and small commercial businesses such as farm shops, B&Bs and glamping sites. The standard tank models come supplied with a weather proof kiosk and low air pressure alarm beacon and blower inside.

Dimensions:

Model	Population	Max Outside Diameter	Height to Inlet	Inlet Invert Depth	Height to Outlet	Max Height/ In Ground Depth	Weight Empty	Total Capacity
		(A)	(B)	(C)	(D)	(E)	(KG)	(L)
DMS2	1-6	1740	1700	630	1610	2330	155	2270
DMS3	5-11	1960	1830	760	1730	2590	192	3030
DMS4	10-15	1990	2000	780	1930	2780	210	3975
DMS5	14-20	1990	2000	780	1930	2780	210	3975
• Dimensions above shown in mm • Deeper inverts can be accommodated with our range of standard invert extensions. • Indicative technical drawing only								





Loadings:

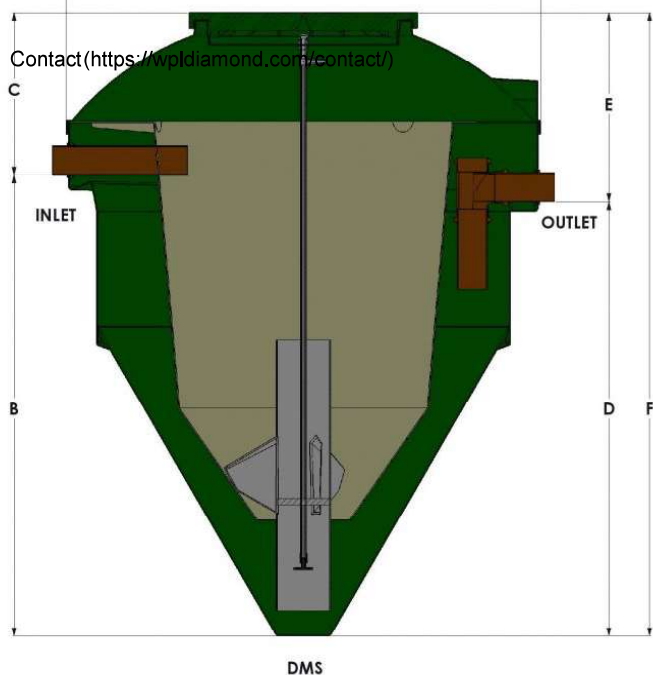
DMS kiosk power consumption					
Model	Blower Type	Power per blower (kW)	No. of Blowers	Min Power Consumption (kW)	Max Power Consumption (kW)
DMS2	ET100	0.08	1	0.08	
DMS3	ET120	0.09	1	0.09	
DMS4	ET150	0.16	1	0.16	
DMS5	ET200	0.23	1	0.23	

DMS Indicative technical drawing:





Support



Standard package- Diamond DMS

Standard tank models DMS2,DMS3,DMS4andDMS5come supplied with:

- Tank as specified x1.
- Tank lid with M10x 50mm stainless steel hex bolts x2.
- Weatherproof kiosk x1, comes with a low air pressure alarm beacon and blower inside.
- 10m of 3/4 inch hose with hose clips x2, for the blower.

(<https://wpltd.s3.eu-west-1.amazonaws.com/wp-content/uploads/2020/12/09102846/DMS-Lo-Res-1024x683.jpg>)





(<https://wpltd.s3.eu-west-1.amazonaws.com/wp-content/uploads/2020/12/09103028/DMS-kiosk-blower-and-hose-lo-res-1024x683.jpg>)





Kiosk for the Diamond DMS:

The kiosk with a small footprint and lid opening, comes complete with alarm mounted beacon and reliable blowers as standard. Additional blower options available on request.

The kiosk can be installed above or below ground dependent on site conditions.

(<https://wpltd.s3.eu-west-1.amazonaws.com/wp-content/uploads/2017/01/08100556/WPL-Diamond-DMS-and-WPL-Kiosk-installation-at-a-house-UK.jpg>)



