Tel: 0800 3288852

2 YEAR WARRANTY

Clenviro

environmental technology

MATRIX

Clenviro

environmental technology

Sewage Treatment Systems

CE

EN 12566-Pt 3.
Certified 96.2% average efficiency

FSB

BRITISH WATER
expertise worldwide

THE GUILD OF MASTER CRAFTSMEN

Efficient, realiable, sewage treatment systems for all residential, commercial and Industrial applications



MATRIX
Clenviro
environmental technology
Sewage Treatment Systems

For any application, residential, commercial, industrial, where there is no access to a mains sewer, the **MATRIX** sewage treatment plant provides an extremely efficient, reliable and cost effective solution to sewage disposal. The **MATRIX** system is a single tank unit up to 300 residential population equivalent and a modular system for larger applications.

Performance with Peace Of Mind

Recent changes in regulations mean that ONLY fully CE marked and certified treatment plants are acceptable for installation to comply with legislation. The **MATRIX** treatment plant has undergone extensive independent testing to BSEN12566-3 making it fully compliant with the European Standard. It is important to note that the new standard relates to ALL units in the range from 6 person (residential equivalent) to 50 person (residential equivalent) and to qualify for CE marking must include for both process and structural testing, including installation in groundwater conditions. Unlike many manufacturers, Clenviro Ltd have had all **MATRIX** treatment plants in the range to 50pe fully tested in all aspects of BSEN12566-3 with the achievement of market leading results and as such is fully CE compliant.

The **MATRIX** sewage treatment system is designed to achieve the minimum required effluent quality standard of 20mg/litre Biochemical Oxygen Demand (BOD) : 30mg/litre Suspended Solids (SS) : 20mg/litre Ammoniacal Nitrogen (NH4), which in European Standard performance testing relates to an efficiency of better than 94%, the certified performance of the **MATRIX** system is that it produces an average final effluent quality of 11mg/litre Biochemical Oxygen Demand (BOD) : 16mg/litre Suspended Solids (SS) and 6mg/litre Ammoniacal Nitrogen. This relates to an average efficiency ratio of 96.2%, better than most other manufacturers, with individual test efficiency results being as high as 98.8%. As part of the test procedure the **MATRIX** system was proven to have one of the lowest operating costs.

Process

The **MATRIX** treatment system is a three stage biological process contained within a single tank structure, based on the principles of a submerged bed reactor and designed in accordance with the requirements of BS6297. Careful configuration of the internal flowpath and the inclusion of non-mechanical recirculation systems ensures optimal process performance as demonstrated by the exceptional results obtained from the independent testing, providing complete peace of mind for the end user. There are NO electrical or mechanical components within the treatment plant thereby eliminating the need for any specialist servicing arrangements ensuring that any maintenance requirements on the **MATRIX** system are kept to an absolute minimum.



CLF1 - 6pe Fully Installed.



CLF1 - 6pe Treatment Plant ready for delivery.



CLF9 - 70pe Treatment Plant being Loaded.

Servicing & Maintenance

The **MATRIX** system has minimal mechanical components and therefore requires only simple maintenance procedures ensuring that, whether it is a 6 person unit or a 300 person unit, annual maintenance costs remain the least of your worries.

All MATRIX sewage treatment systems come with a comprehensive two year warranty.

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TECHNICAL DATA

Model Ref	PE	BOD/day Kg	Flow/day m3	Length mm	Width mm	Depth mm	Inlet Size mm	Weight kg	Blower Rating
CLF1	6	0.36	0.90	1500 diameter		1956	110	200	60w
CLF1A	9	0.54	1.35	1700 diameter		1959	110	250	60w
CLF2	12	0.72	1.80	1900 diameter		1959	110	300	80w
CLF3	18	1.08	2.70	2200 diameter		1962	110	400	120w
CLF4	25	1.50	3.75	2500 diameter		1912	160	750	120w
CLF5	30	1.80	4.50	4100	1624	1912	160	1200	200w
CLF6	40	2.40	6.00	4500	1624	1912	160	1400	0.37kw
CLF7	50	3.00	7.50	5100	2124	1912	160	1700	0.70kw
CLF8	60	3.60	9.00	5600	2124	1912	160	2000	0.70kw
CLF9	70	4.20	10.50	6000	2124	1912	160	2200	0.70kw
CLF10	80	4.80	12.00	6600	2124	1912	160	2400	0.70kw
CLF11	90	5.40	13.50	7500	2124	1912	160	2600	0.70kw
CLF12	100	6.00	15.00	7500	2524	1912	160	2900	0.70kw
CLF13	125	7.50	18.75	9000	2524	1912	160	3100	0.75kw
CLF14	150	9.00	22.50	10500	2524	1912	160	3300	1.10kw
CLF15	200	12.00	30.00	12000	2524	1912	160	3500	1.10kw
CLF16	250	15.00	37.50	12000	2524	2412	160	3700	1.50kw
CLF17	300	18.00	45.00	12000	2524	2612	160	3900	2.20kw

MATRIX Benefits

- Full technical back up and customer service support.
- Nationwide network of service engineers
- Supply only or full supply and installation through certified installers.
- Single tank installation to minimize costs
- Failure alarm systems as standard, not at additional cost
- GSM telemetry dial out alarm units available at small additional cost
- No mechanical or electrical parts within the unit.
- Robust Polypropylene construction for easy and cost effective installation
- No visual intrusion. Flat, flush ground level covers suitable for 1 tonne load.
- Simple installation in vehicular areas, up to D400 loading.
- Low running and maintenance costs
- Integral discharge pumps where required (all models) no additional tanks.
- Deep inlet inverts available to avoid pumping crude sewage to plant.

Direct Dial Sales & Technical helpline : 0800 32 888 52

Tel: 0800 3288852

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Pumping Stations, Grease Traps, Kiosk & Housings, Storage Tanks and Bespoke fabrications - if you can draw it, we can build it!

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