

Terrafors

The solid, value-for-money model with refinement



- ▶ Versatile
- ▶ Controllable
- ▶ Proven
- ▶ Laboratory-scale



Bringing standardisation to solid state fermentation

► Versatile

Terrafors can be used for a range of applications including soil remediation, agro-waste and even liquids/slurries.

► Controllable

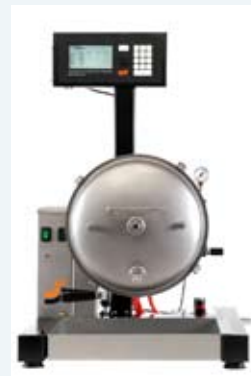
Temperature, mixing and gas flow are catered for, along with measurement of exit gases and data-logging/control by computer.

► Laboratory Scale

Terrafors has a 15L total volume drum and is compact enough to have multiple units on a single laboratory bench.

► Proven

A range of applications have been tested in partnership with MADEP, who have long experience in the field of bioremediation.



Hardware specifications

| | |
|----------------------------|---|
| Reactor Type | Rotating Drum |
| Volume | 15L |
| Material | 316L (acid and base resistant) |
| Aeration | 0,04 to 25 NI/min |
| Aeration regulation | Rotameter & auto.ON/OFF control of inlet/exhaust valve |
| T° regulation | Water jacket Range approx. 5°C above coolant to 99 °C |
| Gas diffusion | Steel sparger |
| Usefull pressure range | Atmospheric up to 0.5 bar overpressure |
| Agitation | 0,1 to 10 rpm, programmable speed, direction & duration |
| Exhaust gas O2 | 0,1 to 95% Oxygen partial pressure measurement |
| Exhaust gas CO2 | 0 to 10% Spectrometric absorption method |
| Automatic Data logging and | Off-line Analysis Data |

Field of application

- Biodegradation studies and method development
- Bioremediation studies and method development
- Fundamental and applied soil ecology

Example of potential use

- Anaerobic process dev.
- Treatment of semi, solid or liquid waste
- Soil priming with pollutant degrading microorganisms
- Enzyme production on solid substrates
- Microbial ecology
- Biological or chemical pest control

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