NC TECHNOLOGIES

Innovative Elemental µ-Analysis

RESPIROMETER

BIOMASS LINE

RESPIROMETER 3028

Respirometer 3028

✓ It is dedicated to the measurement of the biomass biological stability, by determining the Dynamic Respirometric Index (DRI), measured by a DI.PRO.VE (Department of Production Plant, Agricultural Sciences, University of Milan) Method (according to : UNI/TS 11184 –prEN 15590).

✓ The DRI measurement is based on the evaluation of the oxygen consumption rate needed on a hourly basis for the biochemical oxidation of easily biodegradable compounds contained in an organic matrix.

The measurement of O2 consumption is carried out in continuous ventilation, to ensure the maintenance of aerobic conditions for optimal development of microorganisms (O2> 14%) and to remove the produced CO2.

The Respirometer 3028 Model allows routine analysis and laboratory biostabilization processes testing, comparable to full-scale trials. The aim is to check biomasses, or to control the main process parameters, so to evaluate their progresses and the possibilities of modifying them during the compost process.

✓ The dedicated s/w, called “Respi-On-Line” is resident in the respirometer inside memory. It requires no installation on your PC. The analysis data are run through the software “Respi-Off-Line”. They can be stored in a database and then exported to .txt and.xtl format.

Technical parameters

DIMENSIONS	900 x 750 x 1000mm
WEIGHT	37kg
POWER SUPPLY	230 V – 50 Hz
MAX. ABSORPTION	2A
DATA TRANSMISSION	LAN RJ45, Eth. Cable cat.5
SOFTWARE	Respi-On-Line
UTILITIES	Dry, oil-less compressed air, 3Bars PC with Internet connection

Measured Parameter	OXYGEN (%)	°C Temperature range	Air flow Lites/h
Range of measure	0-25	0-100	10-500
Resolution	0.1% di O2	0.1	0.1 liter/h
Precision	±0.3% O2	±0.5	±1% f.s.
Sensor	Polarographic type	Digital Thermom.	MFC

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