



NC TECHNOLOGIES

Innovative Elemental μ -Analysis

RESPIROMETER

BIOMASS LINE

RESPIROMETER 3024B



Respirometer 3024B

✓ 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 3024B 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.

BIOMASS LINE

Technical parameters

DIMENSIONS	900 x 750 x 1000mm
WEIGHT	27kg
POWER SUPPLY	230 V – 50 Hz
MAX. ABSORPTION	2A
DATA TRANSMISSION	LAN RJ45, Eth. Cable cat.5
SOFTWARE	Respi-On-Line/Respi-Off-Line
UTILITIES	Dry, oil-less compressed air, 3Bars PC , with Internet connection

Measured Parameter	OXYGEN (%)	°C Temperature range	Air flow
Range of measure	0-25	0-100	10-500
Resolution	0.1% di O ₂	0.1	0.1 liter/hr
Precision	±0.3% , O ₂	±0.5	±1% f.s.
Sensor	Polarographic type	Digital Thermom.	MFC



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