ECHO Instruments
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DRI RESPIROMETER

Technology of DRI Respirometer determines the current rate of aerobic microbial activity of solid recovered fuels using the real dynamic respiration index (DRI). The current rate of aerobic microbial activity measures the biological stability under the actual chemical and physical properties of solid recovered fuels.

Principles

DRI Respirometer measures O_2 to determine the activity of microorganisms in degradable organic matter under defined continuous airflow and adiabatic conditions. The samples are measured in hermetically sealed vessels (adiabatic), which create controlled conditions determined by EU and other norms.

Applications:

- **UNI 11184** - Determination of biological stability by DRI;
- **EN 15590** - Determination of the current rate of aerobic microbial activity using DRI;
- Other applications for waste degradation.

DRI Respirometer

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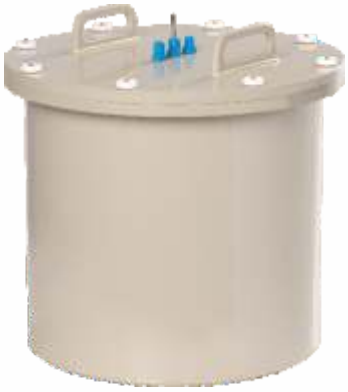
Advantages

- Multi - channel system: 3, 6 or 12;
- Plug & Play design (easy to install, use and maintain);
- Temperature sensor in each vessel;
- Automatic condensate removal system;
- Temperature, flow, pressure, humidity measurements;
- Sensor O_2: Range 0-25%, Accuracy: 2%;
- Various sizes of vessels: 2l, 10l, 20l, 30l;
- User friendly software with excel export files;
- Remote desktop control;
- Air pump;
- No special connections required;
- Suitable for various applications in different fields;
- Rack (stand) for vessels, control unit and PC.



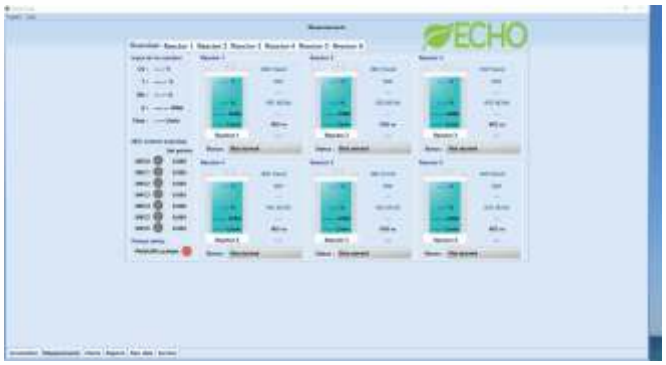
Adiabatic vessel 10l

Adiabatic vessel 2l

Technical specifications

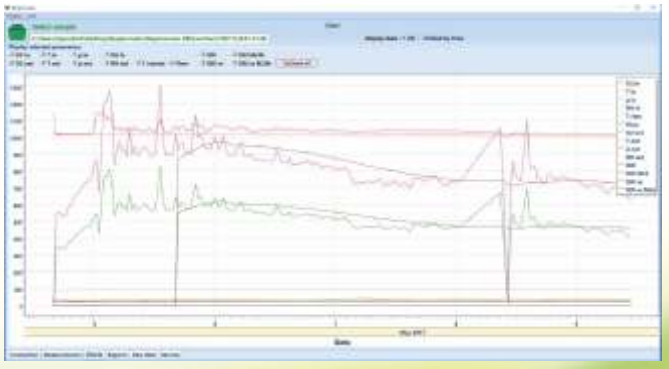
- Dimensions - Control unit: 48 x 40 x 28 cm; Weight: 17kg;
- Dimensions - Rack for vessels: 140 x 60 x 150 cm; Weight: 50kg;
- Dimensions - 10l vessel: 42 x 42 x 45 cm; Weight: 9kg;
- Dimensions - 2l vessel: 33 x 33 x 28 cm; Weight: 5,5 kg.

ECHO Respirometer DRI software

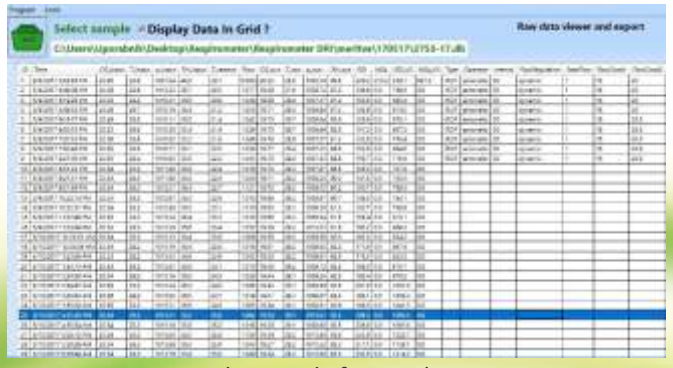


Start screen

Data set up in each vessel



Measured parameters charts



Raw data ready for Excel export

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