



# SETIS™



SETIS™ bioreactor components

Standardized, yet flexible and efficient for many propagation processes.

## The ideal bioreactor for plant micro-propagation



# SETIS™ platform

TIS technology is based on immersing plant material into liquid growth media for short periods of time, at very low frequencies. These immersions are sufficient for plant nutrient uptake and desired in-vitro growth.

Large-scale plant micro-propagation can be as easy and efficient as you wish. Switching from traditional agar-based methods to **Temporary Immersion Systems (TIS)** can considerably reduce handling whilst increasing multiplication rate and plant quality.

## Advantages

- Higher production per square meter
- Higher multiplication rates
- Lower agar costs thanks to liquid medium
- Higher nutrient uptake
- Reduced handling and manual labour
- Active gas exchange environment
- Improved plant quality
- Automated



SETIS™ Bioreactor working cycles

SETIS™ is an advanced TIS platform, offering all necessary equipment, software, accessories and Know-How to fully setup a modern plant tissue culture lab using bioreactors.

Every component of the platform has been precisely designed and produced for a perfect interaction between them.

### Ready-to-use. Simple. Secure.

#### Air Source

- Oil-free piston compressor •
- Compressor flow of 150-300 litres/min •
- Tank capacity 50-200 litres •



#### Air Handling

- Bringing air from wet and dirty to dry and clean •
- Refrigerated air dryer + set of air filters up to 0,01 µm •



#### SETIS™ Control Unit

- Customized and Ready-to-use control panel •
- Operation software specifically designed for SETIS™ bioreactor •
- Automatic control of immersion and ventilation phases •
- Integrated lighting control •
- Flexible installation with unlimited bioreactors to control •
- Unique advanced functions •
- Simple software interface •
- Robust and secure equipment •



#### SETIS™ Rack

- Compact setup with maximum use of space •
- Up to 64 SETIS™ bioreactors per square meter •
- All pneumatic connections and accessories included •
- Two models: 32 and 64 SETIS™ bioreactors per rack •



#### SETIS™ Bioreactor

- State-of-the-art in temporary immersion bioreactors •
- Delivered with all its components •
- Separate vessels •
- (capacity of 6 litres plant culture and 4 litres growth media) •
- Assembled external dimensions (308x180x250 mm) •
- Fully autoclavable •
- Material PC, highly resistant and transparent •
- Plant material with maximum light exposure •
- Very low working pressure (0,1 BAR) •
- Self-drainage of growth media •
- Easy to handle •



#### Accessories

Specific processes can be improved by using our accessories, making production customized and efficient. A complete solution for every process .



#### Know-How

- Consultancy •
- Tech-Transfer •
- Protocols •

