



Benefits

- Ability to grow cell culture in 3D for prolonged time
- Simple to be operate using the designated tablet
- Monitoring of each bioreactor by build in cameras
- One unit can control 6 bioreactors
- Individual adjustment of each bioreactor
- Can rotate each bioreactor both clockwise and anticlockwise thereby allowing agitation.
- 6 cameras are for monitoring the bioreactor real time.
- The door has a push to open mechanism allowing the user to open the door with the elbow, so the hands of the user can be used for holding bioreactors.

CelVivo ApS

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<http://www.celvivo.com>

System Description

The unit consists of a chamber with the ability to have to 6 bioreactors with a volume 10 mL.

The environment in the chamber can be regulated with respect to CO₂ and temperature.

Each reactor has an associated motor which can spin the reactor slowly. The speed of the motor can be controlled individually using a tablet. The tablet can control multiple units.

A fan is installed in the chamber for ventilation purposes to ensure a uniform environment within the chamber.

For cleaning UV-LED's are placed in the chamber.

In the door of the unit 6 cameras are installed. These are used for monitoring the bioreactor real time visualized on the tablet.

The unit have a small footprint and can be stacked up to 3 units high.

Ordering Information

Temperature data	
Temperature range 6 °C above ambient temperature to	30 °C above ambient
Temperatur regulation accuracy	± 0.25°C
CO₂-data	
CO ₂ range [Vol.-% CO ₂]	0-10%
CO ₂ measurement	IR
Electrical data	
Rated Voltage [V]	110-230
Power frequency [Hz]	50/60 Hz
Nominal power [W]	30-65
Phase (Nominal voltage)	1~
Measures	
Internal diameter	305 mm
Internal depth	80 mm
Exterior dimensions	450 x 420 x 250 mm (w x h x d)
Door	

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Closing mechanism	Push to open mechanism
Monitoring	
Cameras	6 cameras are placed, one for each ClinoReactor
Camera resolution	5 Megapixel
Decontamination	
Incorporated method	UV-C LED (Only when door is closed) 30 mA
Axels	
Capacity	6 axels
Speed range (min⁻¹)	1.5 -100
Speed Accuracy	±1 %
Direction	Clockwise and anticlockwise
Control	The speed of each axel can be controlled individually
Controller	
Device	Tablet based
Communication method	Wi-Fi, Ethernet
Screen size	10,1
Screen resolution	1920x1080
Units to control	50
Safety	
high-power UV-C LED	Only when door is closed
Features	
Stack configurations	Up 3 stacked units
Connections	
Power-supply	230 V, 50 Hz
CO2 supply	
CO2 requirement pressure	max. 1 bar
CO2 connection hose	∅ 8 mm

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