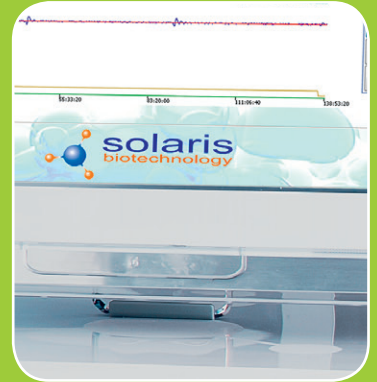
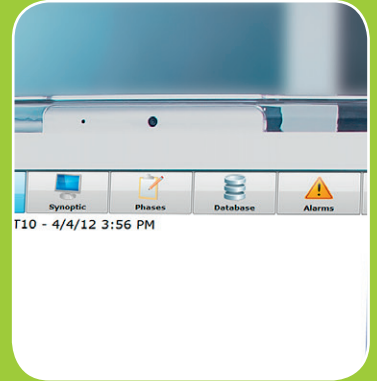


TAKE IT EASY!



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Single Use Bioreactor/Fermenter System



10 Single-Use, Stirred-Tank Bioreactor

an exclusive system fully configurable that meets any design request in a scalable platform ranging 1-25 litre Working-Volume (WV).

CellVessel™ series of Single-Use-Bioreactors (SUB) for batch and fed-batch cultivation of various cell lines in suspension applications are unique as they are fully configurable and meet any design request in a scalable platform ranging 1-25 litre Working-Volume (WV).

Fully configurable CellVessel™ may be created by selecting components from:

1. A range of impeller(s), any rotation or direction for up-flow / down-flow / axial / radial fluid circulation for any application.
2. Temperature controlled with electrical heating blankets and/or with waterborne heating/cooling blanket.
3. Various aeration methods; such as micro pore spargers, hole spargers, head space gas exchange.
4. Baffled stator for axial vortex mixing, donut shape flow pattern for improved mass transfer for increased productivity.
5. Brushless motors.

6. 7 different exhaust methods.



7. 5 different liquid In&Out methods.



8. A range of Single-Use-Sensor (SUS).

Basic specifications:

- PC (polycarbonate) vessel in 5 different diameters and 4 different height = 13 different sizes
- PC cover with a number of PG13.5 ports according to the diameter
- Rigid design for stable servo motor connection

Benefits

1. Reduced start up costs
2. Cut out downtime of cleaning and autoclaving
3. Reduced validation
4. Reliable scalability (stirred tanks design)

9. 1 TMFC in the entry model.
Gas mixing: up to 5 TMFC (Air, CO₂, N₂, O₂ and Overlay).

10. 18.5" touch display.

11. LEONARDO: smart controller designed to provide an high level of automated management of the fermentation processes.
Remote Control, 100% assistance from our office.

12. Up to 4 vessels managed with one station.

13. N.4 software assignable peristaltic pumps, **all speed controlled**.

14. Compact master control station.
Universal power supply 100-240 V.
Rear module with 3 removable technical trays (power, control, process) to facilitate the after sales service.



10 Single-Use, Stirred-Tank Fermenter

an exclusive system fully configurable that meets any design request in a scalable platform ranging 1-25 litre Working-Volume (WV).

BactoVessel™ series of Single-Use-Fermenters (SUF) for batch and fed-batch microbial applications are unique as they are fully configurable and meet any design request in a scalable platform ranging 1-25 litre Working-Volume (WV).

Benefits

1. Reduced start up costs
2. Cut out downtime of cleaning and autoclaving
3. Reduced validation
4. Reliable scalability (stirred tanks design)

Fully configurable BactoVessel™ may be created by selecting components from:

1. A range of impeller(s), any rotation or direction for up-flow / down-flow / axial / radial fluid circulation for any application.
2. Temperature controlled with electrical heating blankets and/or with waterborne heating/cooling blanket.
3. Various aeration methods; such as micro pore spargers, hole spargers, head space gas exchange.
4. Baffled stator for axial vortex mixing, donut shape flow pattern for improved mass transfer for increased productivity.
5. **Brushless motors**, from 1 to 2000 RPM.
6. 7 different exhaust methods.

Basic specifications:

- PC (polycarbonate) vessel in 5 different diameters and 4 different height = 13 different sizes
- PC cover with a number of PG13.5 ports according to the diameter
- Rigid design for stable servo motor connection



7. 5 different liquid In&Out methods.



8. A range of Single-Use-Sensor (SUS).



9. Compact master control station.
Universal power supply 100-240 V.
Rear module with 3 removable technical trays (power, control, process) to facilitate the after sales service.



10. 1 TMFC in the entry model.
Gas mixing: up to 5 TMFC (Air, CO₂, N₂, O₂ and Overlay).

11. 18.5" touch display.

12. LEONARDO: smart controller designed to provide an high level of automated management of the fermentation processes.
Remote Control, 100% assistance from our office.

13. Up to 4 vessels managed with one station.

14. N.4 software assignable peristaltic pumps, **all speed controlled**.

SET UP YOUR

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Ask for the Configurator Tool for your own SUB/SUF design!

CellVessel™ and BactoVessel™ frequently requested volumes

Vessel volume (ml)	OD110	OD130	OD150	OD200	OD250
N. of PG13.5 ports	6	7	9	10	12
245 mm height	2,100	3,000			
340 mm height		4,100	5,600	10,300	15,700
420 mm height		5,100	6,900	13,400	19,300
520 mm height			8,500	16,500	23,800
620 mm height			10,100	19,600	28,300

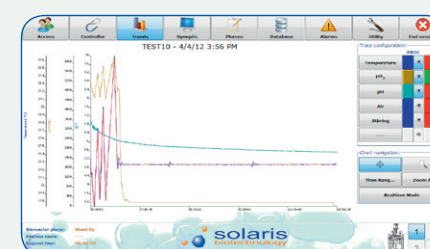
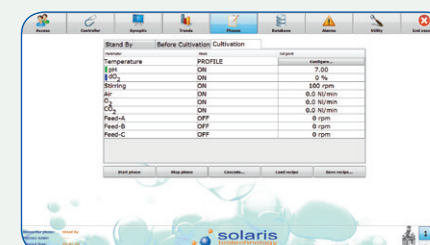
The smallest Cell/Bacto Vessel offers WV from 60 ml.

WITH

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your process is easily and efficiently managed by this innovative, user friendly and powerful Process Control System

LEONARDO smart touch screen controller for R&D bioreactors / fermenters



Multi-level password protection

User friendly fermentation management

Controller page to view setpoints, process values and control mode, to set up customized PID (or use factory defaults) and alarm limits

Continuous trends representation to track, print and export data.

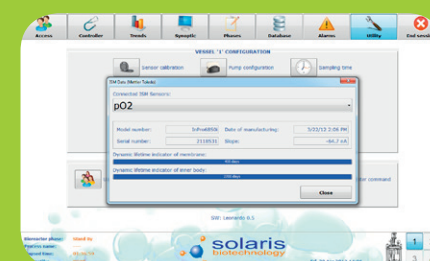
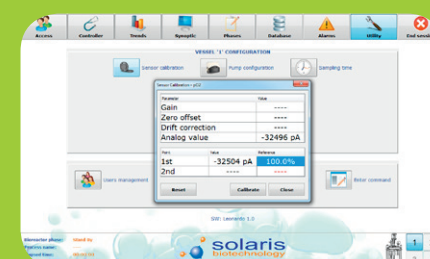
Different dynamic zooms and configurations.

On line parameters calibration

Events log and alarm register

Possibility of saving recipes for repeat usage

Remote control for after sale assistance





www.solarisgroup.org

edprint.it



www.cercell.com