SOLARIS™
BIOTECH



JUPITER

CATALOGUE





JUPITER

single & parallel autoclavable fermenter bioreactor

The **Jupiter** platform offers multiple autoclavable vessel sizes and designs from 2.0 L up to 10.0 L total volume. The system is highly configurable, offering a wide range of measurement and control options. Pressure control up to 1.6 bar is also available in the 2 and 4 L volumes.

“Having the opportunity to extract real time process data with the lowest step time of 1 second remotely offers to our customer a powerful monitoring tool.”

APPLICATIONS

Our products are utilized across various sectors including **pharmaceuticals**, **food production**, **agriculture**, **biomanufacturing**, **bioplastics**, **biofuels**, **cosmeceuticals**, catering to both research and development and lab production needs

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Our Product Jupiter

This catalogue describes a Solaris JUPITER.
For supervisory control and data acquisition Leonardo software is included.



THE SYSTEM

The system consists of single or double-wall fermenter/bioreactor (total volume), bench-top, preassembled unit, supplied with all necessary tubes, valves and instruments, automation, control panel (HMI).

THE DESIGN

The system is designed for aerobic and anaerobic cultivations/fermentations, closed aseptic operations. The control is based on a SCADA control system.

Customizable Configuration

Different aspect ratio and thermoregulation strategies

BASIC RESEARCH

EDUCATION

PROCESS DEVELOPMENT & OPTIMIZATION

SCALE UP & SCALE-DOWN STUDIES

SMALL PRODUCTION



CONTROL UNIT

Different gas mixing strategies with up to 5 TMFC, double and single-wall design: for improved heat transfer.

Suitable for batch, fed-batch and continuous processes.

Modbus digital sensors reduce background noise and guarantee quick response time.

Offer of a wide range of measurement and control options managed via property software.

Suitable for microbial fermentation and cell culture





DOUBLE-WALL VESSEL

Product Description



HEADPLATE



Leda: an innovative sterile sampling system for Solaris' autoclavable equipment, it allows up to 180 sterile samplings per batch.

A powerful and accurate (1 RPM) brushless motor direct assembly.

Different aspect ratios available upon customer request: D/H 3:1 and D/H 2:1.

Double and single-wall borosilicate glass vessel designs available for all volumes.

Sterile septum with single use membrane for manual feeding.

CABINET


JUPITER J3
SYNOPTIC
P1
P2
P3
P4
SOLARIS

Optional Configuration

The Pressure

Pressure Package

With the same configuration, control options and parameters as the standard one, gives the ability to run bioprocesses at higher pressure conditions. The **system is highly configurable**, offering a wide range of measurement and control options.

01

Pressure control up to 1.6 bar (with constant gas-in and gas-out flux) controlled from software.

02

Vessel dimensions available in 2 and 4 litres total volumes with single or doublewall design.

03

Suitable for batch, fedbatch and continuous processes and parallel control up to 24 units.

Leonardo Software



Leonardo is your bioprocess control hub, unifying operations across benchtop, pilot, and industrial scales.

User-friendly SCADA platform for process monitoring and data management.

Integrated advanced automation tools, combined with intuitive recipe manager for your peace of mind

Remote access, anywhere, anytime.

Get in touch



Solaris Biotech
By Donaldson

Contact us.
Request a demo

SALES & PRODUCTION

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OUR OFFICES SHOWROOMS



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