

version 1.0



2021-2022 BROCHURE

 **major
science**

Innovative Life Sciences Tools



SIP Fermentation System

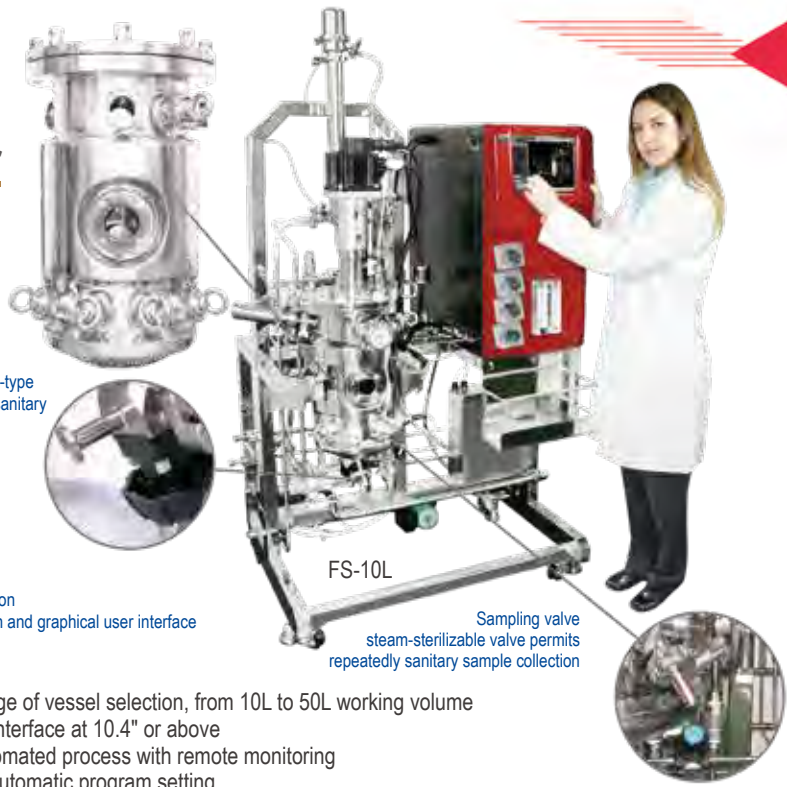


(Pilot Scale)

SIP Fermentation System / Bioreactor

* Customized vessel is available

10L / 30L / 50L System



Motor
Manual or automatic control of constant agitation speed

Peristaltic Pump
Uses four Watson Marlow built-in peristaltic pumps for all your feeding needs

Harvest valve
sterilizable, diaphragm-type tank bottom valve for sanitary post-process harvest

Control Station
Large screen and graphical user interface

FS-10L

Sampling valve
steam-sterilizable valve permits repeatedly sanitary sample collection

Features

- Wide range of vessel selection, from 10L to 50L working volume
- Colorful interface at 10.4" or above
- Fully automated process with remote monitoring
- 15-step automatic program setting
- Orbital welding ensures minimal residue buildup
- Highest grade construction with 316L stainless steel
- Jacket design provides astounding temperature control
- Exhaust pressure relief valve for maximum safety precaution
- Multiple safety design integration for peace of mind operation
- Remote monitoring & controlling software free from purchase
- Password protection for multiple users with special requirements
- Various optional devices for process optimization and needs
- Ethernet communication with Winpact SCADA software, and IP address

Stainless Steel Vessel
Special designed heating jacket provides better heating efficiency



FS-30L

* ASME standard

50L Bioreactor



FS-50L

*All images are for reference only, actual products might differ from the pictures above.

Four-staged DO cascade

15-Step programmable PID control



Immediate visualization on operation overview



Easy and intuitive operation for manual and sequence control



One-Touch automatic sterilization for vessel and system tubing



Online system calibration with system feedback



System expansion with various optional devices

(Pilot Scale)

SIP Fermentation System / Bioreactor



Mechanical seal with auto generated lubricant and automatic cooling device

100L System



Harvest valve
Sanitary level
diaphragm type

Detachable aseptic
feeding device



Pump



200L System

* Customized vessel is available

Winpact offers pilot and production scale bioreactor/fermentation systems for all of your large scale fermentation needs. Our standard SIP Production Scale Fermentation System is constructed with BPE standard piping with orbital welding and top grade automatic valves to allow stable and repeatable result for every experiment. All of our features are designed to provide a high level of productivity and automation while maintaining a low operation cost. All other great features including total sterilization process, mechanical seal break indication, golden vessel ratio design and complete selection of optional devices for optimizing the fermentation process.

Features

- Wide range of vessel selection, from 100L to 1000L working volume
- Multi-lingual 12" colored graphical control interface
- Fully automated process with remote monitoring
- 15-step automatic program setting
- Orbital welding ensures minimal residue buildup
- Highest grade construction with Stainless Steel SUS316L
- Hive jacket design provides astounding temperature control
- Exhaust pressure relief valve for maximum safety precaution
- Multiple safety design integration for peace of mind operation
- Remote monitoring & controlling software free from purchase
- Password protection for multiple users with customized access levels
- Various optional devices for process optimization and needs
- Ethernet communication with Winpact SCADA software, and IP address



- Pneumatic valves for accurate and automatic control
- Orbital welding provides top quality



Monitor page for operation overview



Automatic and manual operation



Automatic sterilization process



Online system calibration

(Production Scale)

*For system over 200L, please contact Major Science or authorized distributors for more information.



500L System



1000L System



5000L System



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