

LePhinix®CCS Single-use Rocking Bioreactor

LePhinix®CCS single-use rocking bioreactors are designed to simplify scale-up production and are widely used in gene therapy, cell therapy, antibody drug and vaccine manufacturing processes. The system can provide good mixing and ventilation effects through the swing technology. The bioreactor can ensure a sterile environment and reduce the risk of contamination through the use of the single-use bioreactor bag, which can achieve flexible operation and precise control. Obtain cells or cell expression products more efficiently by batch culture or perfusion culture mode.



Advantage

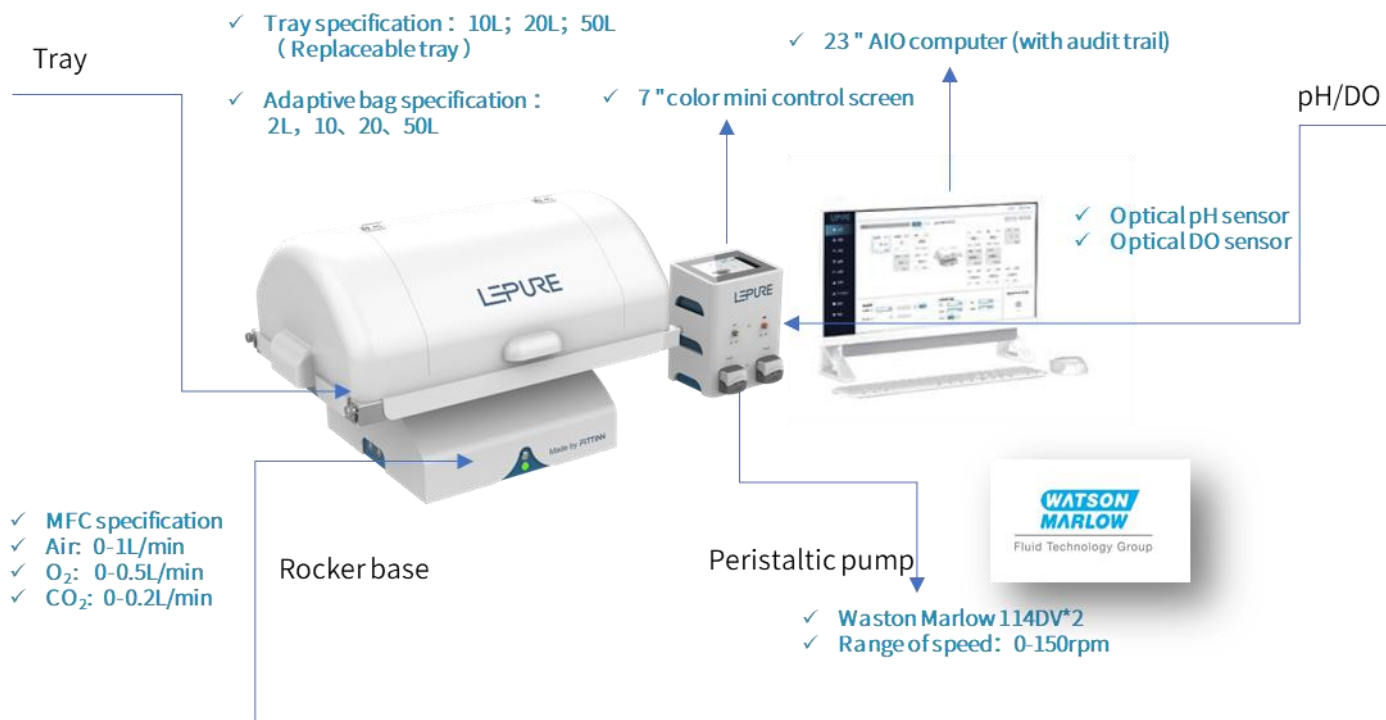
- The rich functional configuration can meet the needs of the culture process of suspended cells and adherent cells (with microcarriers), which is convenient for users to choose flexibly
- Function modules can be flexibly chose to meet individual process requirements, and trays can be quickly replaced to meet different training specifications.
- Enhanced data security and integrity, LePhinix® has a dual database, meet the three-level account rights, audit trail, support for third-party system signal interaction, optional remote monitoring services, access to alarm information and parameter information, to ensure safe production

Typical applications

LePhinix®CCS single use rocking bioreactor can be used in a variety of human, animal, plant and insect cell cultures, such as human immune cells (T, NK) and stem cells (MSC), CHO, HEK293, VERO, MDCK, hybridoma and S2 cell cultures. Suspension and carrier (flake carrier can be sterilized with bag irradiation) culture are applicable.

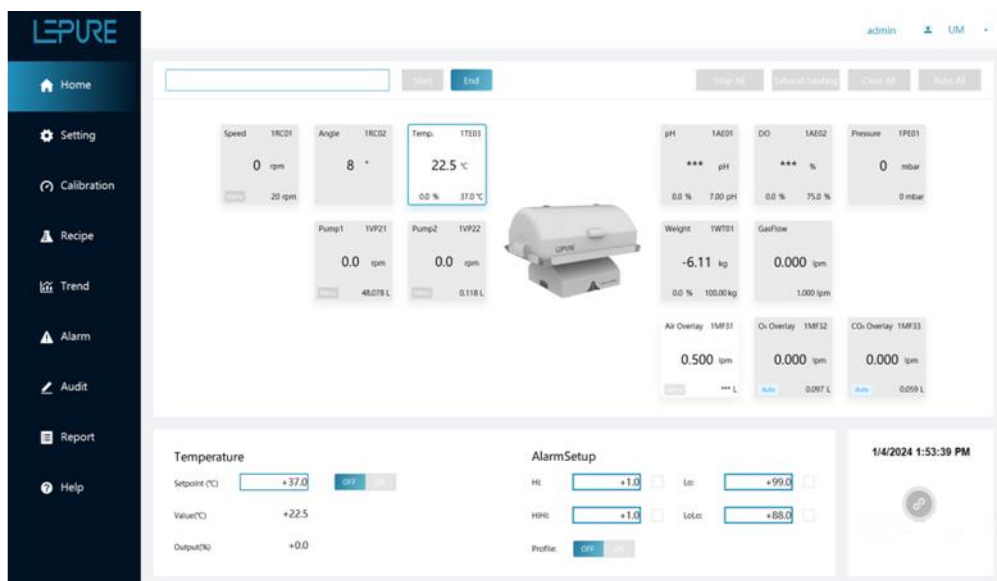
Model	Application	Required configuration
Roceker	IVT	Rocker
Basic	Cell expansion culture (CHO, 293, etc)	Rocker + MFC + HMI (with audit trail)
Advanced	Batch, Fed-batch and Perfusion (CHO, 293, stem cells, immune cells, etc)	Rocker + MFC + HMI (with audit trail) +pH、 DO Sensor Module + Pump module

Hardware System



Software Feature

- Custom curve query
- Easy to query historical batch information
- Data storage security
- With audit trail function
- Historical data can be printed in batches



Technical Parameters

Specification	10L	20L	50L
Suitable bag specifications	2L, 10L	2L, 10L, 20L	20L, 50L
Rocker size (length × width × height) (mm)	563*585*515	811*565*540	911*715*550
Rocker base size (length × width × height) (mm)	458*458*245		
Tray + Lid size (length × width × height) (mm)	563*585*270	811*565*295	911*715*305
Weight (kg)	35	40	46
Rocking speed (RPM)	0-40		
Angle (°)	2-12		
Temperature control range (°C)	RT-60		
Temperature control accuracy (°C)	±0.2		
Peristaltic pump	Watson Marlow 114		
Pump speed (RPM)	0-150		
Air MFC (SLPM)	0-1		
O2 MFC (SLPM)	0-0.5		
CO2 MFC (SLPM)	0-0.2		
pH sensor	Presens optical sensor		
pH control range	5.5-8.5		
pH control accuracy	0.01		
DO sensor	Presens optical sensor		
DO control range (%)	0-100		
DO control accuracy (%)	10		
Pressure sensor monitoring range (mbar)	0-100		

Ordering information

Device	Art.No.	Description
Sensor module	FDWS01	pH optical sensor*1、 DO optical sensor*1
Pump module	FDWP01	Watson Marlow 114 peristaltic pump*2
Rocker base	FDWB01	Rocking system, including load cell
MFC module	FDGCS01	Air 0-1 SLPM+O2 0-0.5 SLPM+CO2 0-0.2SLPM+ Pressure sensor + exhaust heating
10L tray	FDWT010	Suitable for 2L, 10L rocking bag
20L tray	FDWT020	Suitable for 2L, 10L, 20L rocking bag
50L tray	FDWT050	Suitable for 22L, 50L rocking bag
PC module	FDPCS01	23" AIO computer, with audit trial