LeMagmixer® IT Single-use Magnetic Mixing System

LeMagmixer® IT single-use magnetic mixing system is designed for easy and efficient mixing of buffer, medium, intermediates, and other process fluids. The mixer uses a stainless-steel container and a magnet-driven motor to achieve mixing. Power is transferred through magnetic coupling between the drive unit and the mixing head in the single use mixing bag. Without external contact and shaft seal, the design ensures sterility of the process fluid. The usage of single-use mixing bags simplifies the manufacturing operations by eliminating the needs for cleaning and disinfection and the associated auxiliary systems, hence reduces the risk of contamination, simplifies process validation, improves productivity by reducing cycle time. The mixing tank is available in round and square forms. With full volume coverage from 200mL to 3000L, it provides optimal solutions for clients from R&D to production.

Functions and Features

- Modular design for configuration flexibility
- Magnetic coupling-driven stirring paddle without shaft seal
- Touch screen interface and improved data integrity
- Hidden cables for clean surface
- Option to connect to MES and SCADA systems to achieve centralized control

Applications

- Buffer preparation
- Medium preparation
- Mixing of intermediates
- Virus inactivation
- Preparation of semi-finished products
  Mixing of vaccine adjuvants

Empower Biopharma with High Quality Bioprocess Solutions

Advantages

- Powerful magnetic drive and servo motor provide strong mixing power
- Unique mixing paddle design facilitates more thorough and even mixing
- User-friendly design maximizes safety and usability
- Advanced data management option enables audit trail and GMP compliant
- Mixing bags maintaining good clarity after gamma irradiation allows for observation of feed liquid conditions
- In-process weighing, pH and conductivity detection, and temperature control enables advanced functions such as dissolved oxygen detection, pH adjustment, and formulation
- Both hardware and software can be customized to suit specific needs of the user

Technical Parameters

Miniwind Small Volume Mixing Equipment

Items	Specific parameters
Requirements of power supply	220 V AC 50 Hz
Power	⩽ 200 W
Processing volume	0.2- 30 L
Maximum speed	600 rpm
Driver housing	304 stainless steel
Container material	Acrylic
Print	Optional stylus printer
Driver	Stepper motor/Magnetic levitation motor
Dimensions (W*L*H)	Stepper motor: 450*450*280 mm
	Magnetic levitation motor: 550*450*290 mm
Weight:	Stepper motor: 22 kg
	Magnetic levitation motor: 26 kg

FLXL Basic Information

Volume		50 L	100 L	200 L	500 L	1000 L	1500 L	2000 L	2500 L	3000 L
Equipment	W	400	500	635	835	1040	1275	2085	2160	2100
dimensions	L	400	500	635	835	1040	1275	1120	1220	1200
(mm)	H	370	450	635	835	960	1005	1000	1020	1300
Geometry	The bottom outlet is designed with the lowest angle to facilitate the drainage, and the side features a sampling port and an electrode port									
Material	SS304									
Surface finish	Ra ⩽ 0.8 μm									
Caster	colson PU caster for volume below 500 L; footmaster leveling caster for volume over 1000 L									
Weight (no load)	132 kg	153 kg	245 kg	360 kg	510 kg	752 kg	780 kg	840 kg	980 kg	
Installation of mixing bag	Side door with hand hole design for easy bag removal and installation									
Installation of mixing bag	Side door with hand hole design for easy bag removal and installation									

FLXL Functions

Functions:	Design	Brand
Mixing	Mixing through magnetic coupling	Panasonic servo motor
Optional functions	Design	Brand
Weighing platform	Installation through four-point weighing module	Mettler Toledo
In-process pH	Real-time monitoring of pH of feed liquid, with data integration on industrial personal computer (IPC)	Mettler/Hamilton
In-process conductivity	Real-time monitoring of conductivity of feed liquid, with data integration on IPC	Mettler/Hamilton
In-process dissolved oxygen	Real-time monitoring of dissolved oxygen of feed liquid, with data integration on IPC	Mettler/Hamilton
In-process temperature	Real-time monitoring of temperature of feed liquid, with data integration on IPC	Mettler/Hamilton
Data integrity	Realize user management, audit trail, data PDF output, and SCADA connection	
Temperature control jacket	Five-sided dimple jacket with polyurethane insulation coating on the outside to prevent condensation working pressure/test pressure 0.69/0.88 MPa (6.9/8.8 bar) 100/130 psi Jacket inlet and outlet Bottom inlet and top outlet (standard chunk), standard self-locking joint	

MLXL Basic Information

Volume		50 L	100 L	200 L	500 L	1000 L	1500 L	2000 L	2500 L	3000 L
Equipment dimensions (mm)	Φ	225	225	320	450	560	650	650	650	650
	H	500	750	700	950	1150	1280	1600	2000	2400
Geometry	The bottom outlet is designed with the lowest angle to facilitate drainage, and the side features a sampling port and an electrode port with the viewport design									
Material		SS304	SS304	SS304	SS304	SS304	SS304	SS304	SS304	SS304
Surface finish	Ra ⩽ 0.8 μm									
Caster	colson PU caster for volume below 500 L; footmaster leveling caster for volume over 1000 L									
Weight (no load)		140 kg	150 kg	187 kg	338 kg	465 kg	620 kg	770 kg	920 kg	1070 kg
Installation of mixing bag	Side door/hand hole design for easy bag removal and installation									

MLXL Functions

Mixing	Mixing through magnetic coupling	Panasonic gear motor
MLXL optional functions:		
Optional functions	Design	Brand
Weighing platform	Installation through four-point weighing module	Mettler Toledo
In-process pH	Real-time monitoring of pH of feed liquid, with data integration on industrial personal computer (IPC)	Mettler/Hamilton
In-process conductivity	Real-time monitoring of conductivity of feed liquid, with data integration on IPC	Mettler/Hamilton
In-process dissolved oxygen	Real-time monitoring of dissolved oxygen of feed liquid, with data integration on IPC	Mettler/Hamilton
In-process temperature	Real-time monitoring of temperature of feed liquid, with data integration on IPC	Mettler/Hamilton
Data integrity	Realize user management, audit trail, data PDF output, and SCADA connection	
Temperature control jacket	Five-sided dimple jacket with polyurethane insulation coating on the outside to prevent a large amount of condensation Working pressure/test pressure: 0.69/0.88 MPa, 6.9/8.8 bar, 100/130 psi Inlet and outlet: Bottom inlet and top outlet (TC50 chunk standard configuration), standard self-locking joint	

Please consult local sales for order information

LEPURE
www.lepure-biotech.com

lepureglobal@lepure-bio.com
marketing@lepure-bio.com

China Shanghai LePure Biotech Co., Ltd.
Building 3, 410 Yunzhen Road, Songjiang, Shanghai, China 201600

United States LePure Biotech LLC
300 Baker Ave. Suite 300, Concord, MA 01742, USA
Tel: +1 (415)755-7486 +1 (608)692-1988

Version No.:20220803