



BioMixer™ MI Stainless Steel Mixer Systems for *AseptiMix™ MI* Mixer Bags

Biopharmaceutical process involves a very wide range of process fluids such as media, growth regulators, harvests, post centrifuge supernatants, buffers, process intermediates and formulations.

A critical requirement is mixing of many of these fluids during and between process step(s). Process owners using conventional mixing systems involving glass bottles, large carboys or stainless steel vessels face multiple challenges in terms of extraneous contamination due to multiple open system handling, cleaning validation and documentation.

mdi BioMixer™ MI stainless steel mixer systems along with *AseptiMix™ MI* 3D mixer bags provide validated and reliable mixing solutions for biopharmaceutical process requirements such as mixing of media, process intermediates, sterile buffers with wide ranging pH, and formulations.

These systems are well designed to provide efficient mixing of even difficult to mix, high concentration, clump forming components.

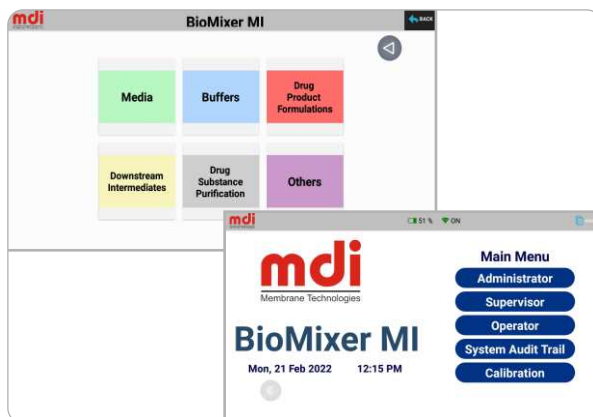
BioMixer™ MI is a stand alone mixing system which includes a stainless steel tote for the *AseptiMix™ MI* mixer bag and a trolley which is prefitted with load cells and a motorized magnetic drive. This makes it an easy to use, user friendly system, where in the mixer bag easily fits on the motorized magnetic drive without any need for alignment.

The stand mounted capacitive touch screen display provides easy control through a user friendly software which helps control mixing speed as well as time.

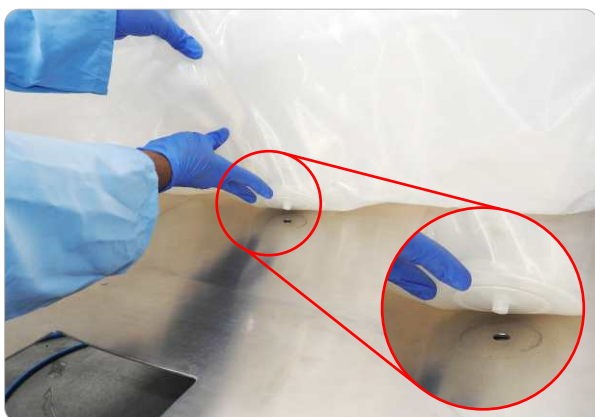
Key Features



Control panel with capacitive touch screen display



User friendly 21 CFR Part 11 Compliant Software



Easy alignment of AseptiMix™ MI Mixer Bag impeller with motor drive



Additional Inflate Bag option:
Does away with Mixer Bag manual alignment

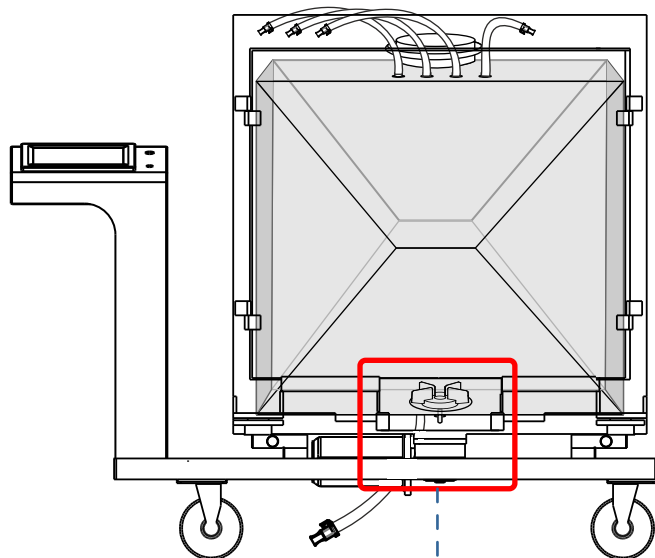


Powder Port Holder for
Easy powder bag fitment



Calibrated load cells

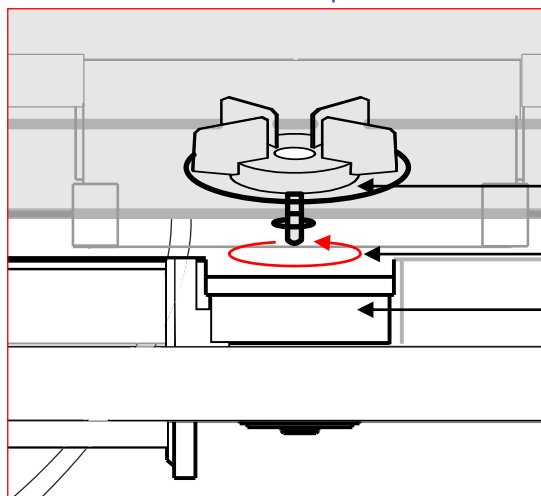
Functioning of Magnetic Motor Drive



The complete **mdi** BioMixer™ MI mixer system consists of an pre-fitted magnetic motor drive unit and **mdi** AseptiMix™ MI mixer bags with magnetic impeller.

The magnetic mixer drive unit is coupled with the AseptiMix™ MI bags through magnetic forces. There are no dynamic seals or shaft penetration inside the mixer bag.

By switching ON the motor through BioMixer™ MI control panel, magnetic motor drive induces rotation of the impeller inside the AseptiMix™ MI mixer bag resulting in the mixing action inside the bag.



Magnetic Impeller

Rotating Effect of Magnetic Drive

Magnetic Motor Drive

Technical Specifications

Materials of Construction

Mixer Vessel		304 L Stainless Steel
Surface Finish		Mirror Polished
Wheels	650 L Mixers	6 inch Polyurethane (PU)
	200 L Mixers	4 inch Polyurethane (PU)
	100 L Mixers	4 inch Polyurethane (PU)
	50 L Mixers	4 inch Polyurethane (PU)

Power Specifications

Voltage		220V AC
Current		1.4 A
Frequency		0-50 Hz
Motor Power		0.55 kW
Impeller Range	650 L Mixers	5-350 rpm
	200 L Mixers	5-250 rpm
	100 L Mixers	5-250 rpm
	50 L Mixers	5-250 rpm

Load Cells

Capacity		800 kg
Least Count	650 L Mixers	0.4kg
	200 L Mixers	0.06kg
	100 L Mixers	0.06kg
	50 L Mixers	0.06kg

Control Panel

Type	Capacitive Touch Screen
Size	10"
Storage Space	16 GB

21 CFR part 11 Compliance for Data Reliability and Security

- Three Access levels with Password Security
- System Audit Trail
- Online repository

Wi-Fi Connectivity and Data Back Up

BioMixer™ MI mixer system connects with the external printer and a remote back up data repository.

The remote back up data repository for mixing reports can be set up with an software specially designed for reliability and security.



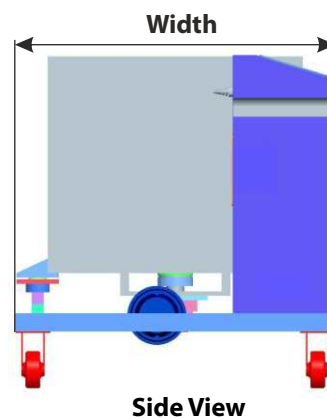
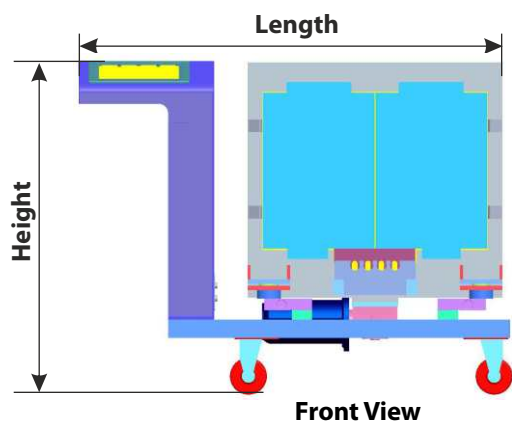
Support Documents

BioMixer™ MI mixer system comes with full documentation which is easy to follow.

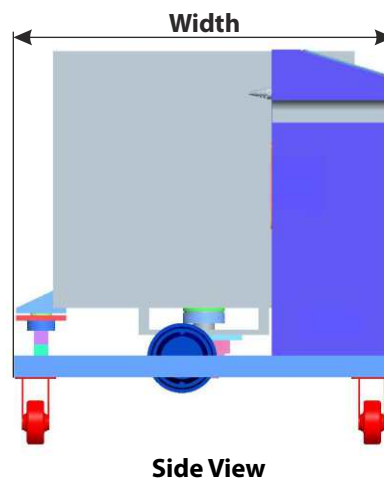
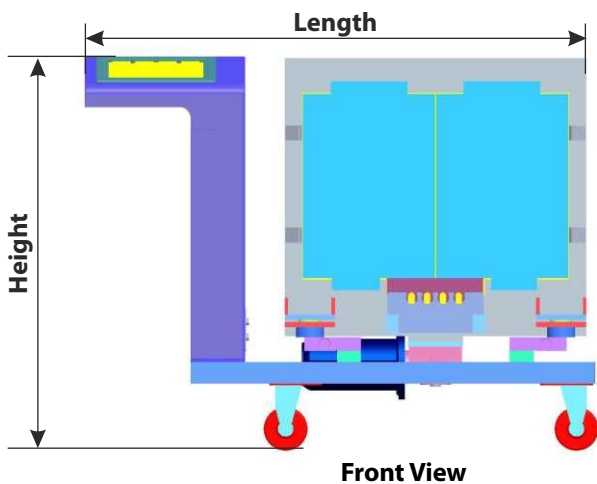
Certificate of Quality		Yes
User Manual		Yes
Installation Qualification (IQ)		Yes
Operational Qualification (OQ)	Equipment	Yes
	Application Software	Yes
Performance Qualification (PQ)		Yes

Dimensions

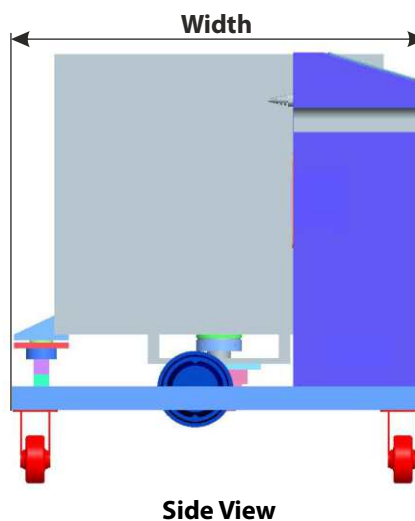
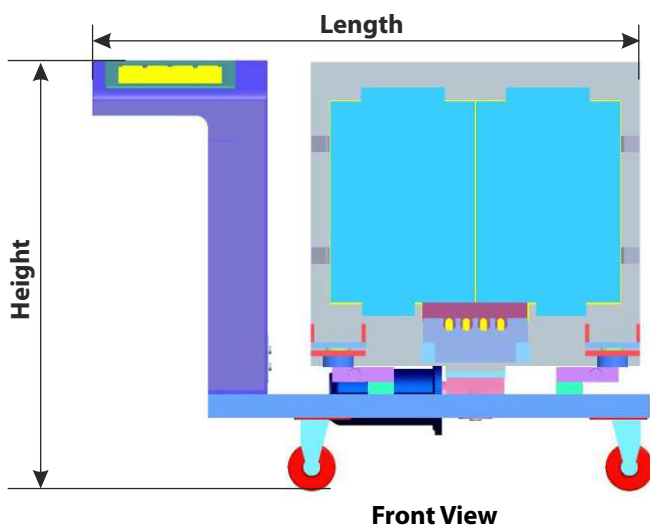
BioMixer™ MI 50 Litres



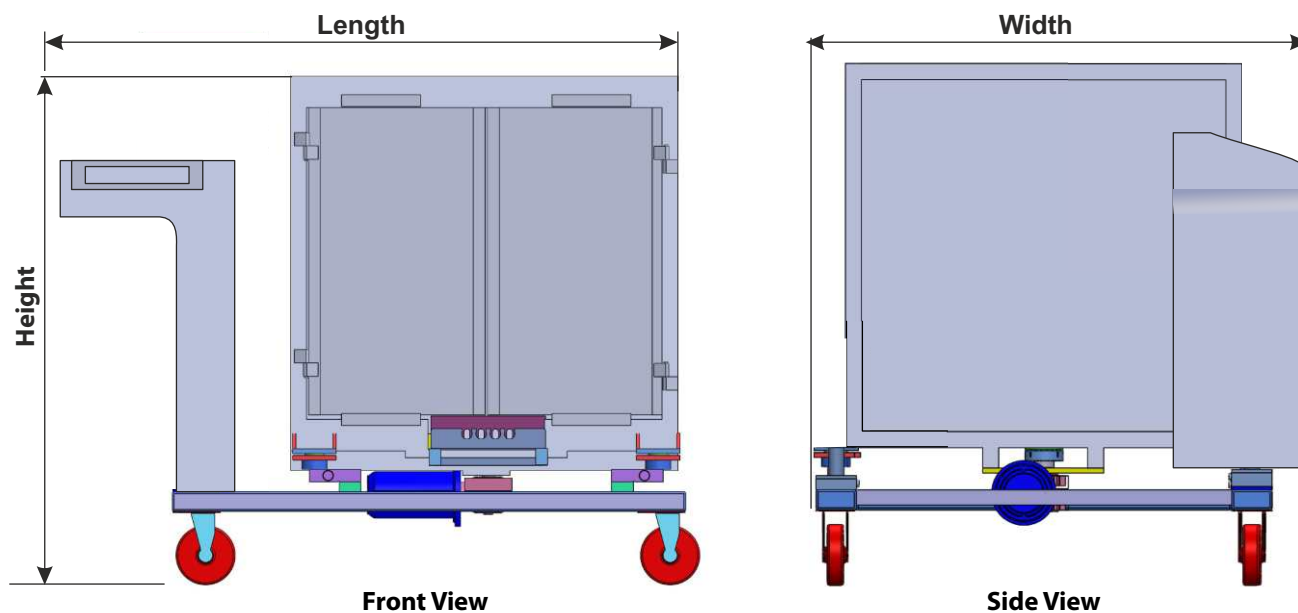
BioMixer™ MI 100 Litres



BioMixer™ MI 200 Litres



BioMixer™ MI 650 Litres



Dimensions	50 L Mixers	100 L Mixers	200 L Mixers	650 L Mixers
Length	100 cm	109 cm	118 cm	152 cm
Width	67 cm	77 cm	88 cm	118 cm
Height	72 cm	85 cm	88 cm	130 cm

Ordering Information

Capacity	Catalog No.
50 Litres	BMIXHXXXXXXXXX01
100 Litres	BMIXIXXXXXXXXXX01
200 Litres	BMIXJXXXXXXXXX01
650 Litres	BMIXOXXXXXXXXX01

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