

# Mobius® Power MIX Single-use Mixing Systems

High Performance Mixing Technology and Ergonomic Design Features



The Mobius® Power MIX single-use mixing systems combine high performance mixing technology with design features that make them easy-to-use. The impeller design and motor are based on our magnetically coupled NovAseptic® mixing technology, a proven mixing technology in stainless steel tanks. These systems efficiently mix the most challenging buffers, media and biopharmaceutical ingredients.

## Features and Benefits

- Range of sizes available from 100 L to 3000 L
- Powerful magnetically coupled impeller designed to efficiently mix the most challenging buffer, media and biopharmaceutical ingredients
- Broad working volumes that range from 10% of the nominal volume to 10% above (size dependent) for processing flexibility
- Stainless steel units have doors that open to one half the mixer's diameter for easy bag loading
- The 1000, 2000, 2500 and 3000 L sizes have an easily accessible off-set drain for easy bag loading
- 100, 200 and 500 L models are available in plastic or jacketed stainless steel
- Optional integrated hoist for powder delivery available on the Mobius® Power MIX 2000 model
- Integrated load cells and temperature sensor
- In-process pH and conductivity measurement option
- Closed, sterile, and zero deadleg sampling directly from the mixing bag
- Backed by industry-leading technical support and services

## Ergonomic Design Features

All the models of the Mobius® Power MIX systems are designed with operator ease and safety in mind. Handling single-use assemblies for volumes greater than 1000 L can be difficult to maneuver, so the Mobius® Power MIX 1000, 2000, 2500 and 3000 have additional features for end-user ease-of-use. One operator is able to safely load the bag. The doors open to one half the carrier's diameter, and the impeller and drain are positioned for easy bag loading. The bag can easily be secured to pins positioned around the top of the carrier to further help with bag loading.

## Proven NovAseptic® Technology for Mixing of Challenging Buffer and Media Powders

The design of the Mobius® Power MIX mixing systems is based on proven NovAseptic® mixing technology, traditionally used with stainless steel. The off-set bottom-mounted impeller contained in the mixer bag is magnetically coupled to the motor assembly, which has been redesigned for single-use. The magnetic coupling does not use a bearing surface.

The design properties of the impeller, such as the surface area, diameter, wing angle and number and type of magnets, were matched to the NovAseptic® impeller to achieve similar mixing performance.

## Ready To Connect and Smart Control Boxes

With the ready to connect control box, the Mobius® Power MIX can be monitored and controlled locally or remotely. Plug the ready to connect control box to the network and use Ethernet IP communication protocol to monitor speed, weight, temperature, pH, and conductivity remotely.

The smart control box is provided with Bio4C ACE™ application control software that allows real-time monitoring and control of all process parameters, ensuring reproducibility of your mixing process. Bio4C ACE™ software includes a piping and instrumentation diagram (P&ID) optimized for precise control of the Mobius® Power MIX with easy access to system status, alarms, and process values. The software is built on a scalable architecture that allows for smooth integration into your network and IT infrastructure.

Both ready to connect and smart control boxes are separate boxes on a four wheels chassis that can be easily moved around the Mobius® MIX carrier. Optimize your layout and get a better access to control your Mobius® mixing system by freely positioning the control box around it.



**Figure 1.**

Mobius® Power MIX 2000 has double doors that open to one half the diameter of the carrier; the Mobius® Power MIX 100, 200, and 500 have a single door that opens to one half the diameter of the carrier.

## Bio4C ACE™ Software

Bio4C ACE™ software is a control, data acquisition, and monitoring software. It is designed to be intuitive and secure, and allows users to run unit operations in manual and automated modes.

## Enhanced Process Automation and Monitoring

Recipe-driven automation eliminates manual operations, increases reproducibility, and minimizes risk of errors. Reports can be easily generated from scratch or from pre-defined templates. An interactive P&ID allows users to visually monitor the process and control each of the components from the Human-Machine Interface (HMI) or from anywhere through a browser-based interface.

## Secure Software Designed to Facilitate Compliance

Bio4C ACE™ software is designed to meet the regulatory requirements needed to operate in a GMP environment. The software has been developed according to ISPE GAMP® 5 guidelines for automation software and facilitates 21 CFR Part 11 and EudraLex Volume 4 Annex 11 compliance for electronic records and signatures, including time-stamped audit trails for verification.



**Figure 2.**

Mobius® Power MIX 200 with Smart Control Box.

## Safe, Sterile Sampling Directly from the Mixing Containers

Every Mobius® Power MIX container includes needle-free sampling valves. The unique design of the sample device eliminates dead legs ensuring a representative sample while avoiding loss of valuable product. Using NovaSeptum® SURE single-use sterile sampling assemblies, a closed concept allows users to obtain a sample directly from the mixing container without the risk of cross contamination. Once a sample is obtained, the sample container is separated from the mixing container using the NovaSeal™ crimping tool that crimps the collar on the sample tube resulting in two closed, sterile ends. The NovaSeptum® SURE assemblies come as single or manifold designs in popular formats. They can also be customized to better fit sampling requirements.



**Figure 3.**  
Sample port, single-use conductivity & pH probes.

## In-Process pH and Conductivity Measurement Options

The Probe Ports enable easy insertion of your standard PG13.5 threaded reusable probes for inline pH and conductivity measurement. To avoid any risk of contamination single-use pH and conductivity probes can also be delivered preassembled on the Mobius® single-use mixer bag.

### Ultimus® Film for superior strength and leak resistance

Ultimus® Film meets the needs of the most challenging high-value, single-use applications and is available in our Mobius® Power MIX Single-Use assemblies.

The ultra-low-density polyethylene (ULDPE) fluid contact layer does not contain Irgafos® 168 to support healthy cell growth. The gas barrier layer is made of ethylene vinyl alcohol copolymer (EVOH). The low-density polyethylene (LDPE) outer layer increases the film's resistance to leak formation. The strength layer, strategically placed between layers of ethylene vinyl acetate (EVA) to ensure flexibility, is comprised of a woven nylon structure that significantly increases the overall durability of the film.

For additional information, please refer to Ultimus® Film Specification Sheet (**SS5660EN**) available at [SigmaAldrich.com](http://SigmaAldrich.com)

PureFlex™ Film is also available in our Mobius® Power MIX Single-Use assemblies, please refer to Specification Sheet (**SP1005EN**) available at [SigmaAldrich.com](http://SigmaAldrich.com)

## Certification Levels

Mobius® assemblies are available in several levels of certification. Certification of an assembly is based on the qualification of the components in the assembly, the level of leak testing performed during manufacturing, and the testing performed on the assembly lot after manufacturing. The certification level also impacts the shelf life and sterility claims that are made for the assembly. The standard Mobius® Power MIX assemblies are available in either gold, silver or bronze certification levels (see table below).

Certification Level	Shelf Life Claim	Sterility	USP <85> Endotoxins, USP <788> Sub-visible Particulates	Leak Testing	Component material meet the criteria for Biological Reactivity Testing. These tests can be any or a combination of the following test methods: USP<88> Class VI ( <i>in vivo</i> ), USP<87> ( <i>in vitro</i> ), ISO 10993-5 ( <i>in vitro</i> )
<b>Gold</b>	2 years	Sterilized using a validated irradiation level of 25–40 kGy	1 assembly per lot tested, post-irradiation	100% assembly leak tested	Post-irradiation
<b>Silver</b>	2 years	Sterilized using a validated irradiation level of 25–40 kGy	Quarterly review of results, post-irradiation	In-process testing	Post-irradiation
<b>Bronze</b>	No claim	Exposed to irradiation level of 25–40 kGy	No testing performed	No testing performed	Pre-irradiation

## Services

The pharmaceutical and biotechnology industries are highly regulated and, to help you navigate this challenging environment, we offer a wide range of services. These services help you save time, lower costs, and meet your unique manufacturing requirements. For your peace of mind, all our services are performed by our global experts who have an intimate knowledge of our equipment backed by decades of experience.

### Qualification Services

Our qualification services are designed to make the integration of our system into your process as seamless as possible and ensure your equipment is properly installed and functioning per your pre-defined requirements.

- Installation qualification/operational qualification (IQ/OQ)
- Performance qualification support (PQ)

For additional information on qualification tests, please contact your local sales representative to get the detailed Test Matrix document.

### Training Services

Appropriate training for users is not only a Good Manufacturing Practices requirement, it also ensures your staff has the expertise to operate and manage the system as part of your manufacturing process. Our training offering has been designed to make your staff more autonomous in managing your system and your process while saving time and money. Our training services cover system use and programming with interactive hands-on sessions and, depending on the training you select, may also include:

- Installing the Flexware® assemblies
- Interacting with the Human Machine Interface
- Using the Bio4C ACE™ software
- Manual and automatic system operation
- Troubleshooting issues
- Managing your own recipes
- Process recommendations

These trainings can be delivered either at your site or in our M Lab™ Collaboration Centers. Please contact your local representative or email [ilearn@merckgroup.com](mailto:ilearn@merckgroup.com) to discuss our training offering.

## System Service Reliance Plans

To help you ensure optimum equipment uptime while mitigating risks, we have developed a wide range of services and support that allow you to select a coverage level that best fits your needs. Our System Service Reliance Plans, a complete range of services for your systems, offer priority access to support while ensuring your equipment is properly maintained. For additional details, please refer to the System Service Reliance Plans Data Sheet (**DS7881EN**). Available at [SigmaAldrich.com/services-plans](http://SigmaAldrich.com/services-plans)

## Repair Services and Spare Parts

### Repair Services

In the event your system experiences a problem, our worldwide engineering organization will provide on-site or repair center technical support to get you back up and running as quickly as possible.

### Spare Parts

Purchasing spare parts directly from us is the only way we can guarantee that you get the right parts every time, with the same level of performance as the original. For details and ordering information, check the illustrated spare parts list (**CA7420EN**).



**Figure 4.**  
Mobius® Power MIX 500.

## Plastic Mobius® Power MIX Specifications

Description	100 L	200 L	500 L	
<b>Carrier</b>				
<b>Materials of construction</b>				
Tank		MDPE		
Stand		HDPE		
Latch		300 series stainless steel		
Casters		304 SS with polyurethane wheel		
<b>Dimensions</b>				
L × W	36 × 31 in. (900 × 800 mm)	37 × 31 in. (940 × 800 mm)	43 × 43 in. (1100 × 1080 mm)	
Height	49 in. (1240 mm)	50 in. (1270 mm)	66 in. (1670 mm)	
<b>Weight</b>	88 lb (40 kg)	97 lb (44 kg)	156 lb (71 kg)	
<b>Minimum working volume (to cover the impeller)</b>	10 L	20 L	50 L	
<b>Minimum sampling volume</b>	20 L	45 L	100 L	
<b>Maximum filling volume</b>	110 L	220 L	550 L	
<b>Storage temperature</b>		0–40 °C (non-condensing environment)		
<b>Operating temperature</b>		4–40 °C (non-condensing environment)		
<b>Motor</b>				
<b>Weight lb (kg)</b>		25 lb (12 kg)		
<b>Electrical (max)</b>		250 W		
<b>Impeller Speed Operating Range*</b>	36–380 rpm	36–380 rpm	36–375 rpm	
<b>Cable length</b>		6 ft. (1.8 m)		
<b>Ingress protection rating</b>		IP 55		
<b>Regulatory information</b>		CE marked		
<b>Control Box</b>				
<b>Materials of construction</b>		304L stainless steel		
<b>Weight lb (kg)</b>		21 lbs (10 kg)		
<b>Electrical</b>		120 V, 60 Hz, 10 A or 230 V, 50 Hz, 3.5 A		
<b>Cable length</b>		16 ft. (4.9 m)		
<b>Ingress protection rating</b>		IP 55		
<b>Regulatory information</b>		CE marked		

\* ±10 rpm accuracy. Reaching maximum speed is only possible when impeller is submerged with liquid. Maximum operating speed has to be validated for each process individually, depending on volume, viscosity, etc.

## Stainless Steel Mobius® Power MIX Specifications

Description	100 L	200 L	500 L	1000 L	2000 L
<b>Carrier</b>					
<b>Materials of construction</b>					
Tank			304L stainless steel		
Stand			304L stainless steel		
Latch			18-8 stainless steel		
Casters	304L stainless steel	304L stainless steel	304L stainless steel	N/A	N/A
<b>Dimensions</b>					
L × W	41 × 32 in. (1030 × 810 mm)	45 × 37 in. (1140 × 940 mm)	55 × 47 in. (1390 × 1190 mm)	57 × 54 in. (1440 × 1380 mm)	64 × 64 in. (1620 × 1620 mm)
Height	54 in. (1370 mm)	54 in. (1370 mm)	62 in. (1580 mm)	78 in. (1980 mm)	90 in. (2280 mm)
<b>Weight</b>	550 lb (250 kg)	720 lb (327 kg)	920 lb (417 kg)	1490 lb (676 kg)	1975 lb (895 kg)
<b>Minimum working volume (to cover the impeller)</b>	10 L	20 L	50 L	100 L	200 L

Description	100 L	200 L	500 L	1000 L	2000 L
Minimum sampling volume	20 L	40 L	100 L	200 L	300 L
Maximum filling volume	110 L	220 L	550 L	1100 L	2200 L for 2000 L 2600 L for 2500 L 3000 L for 3000 L
Fluid volume in jacket (approx.)	1.2 gal (4.5 L)	1.9 gal (7.2 L)	3.5 gal (13.2 L)	5.6 gal (21.2 L)	8 gal (30 L)
Heat transfer area of jacket (approx.)	7.6 sq. ft (0.71 sq. m)	12.1 sq. ft (1.1 sq. m)	22.7 sq. ft (2.1 sq. m)	36.3 sq. ft (3.4 sq. m)	57.7 sq. ft (5.4 sq. m)
Operating pressure of jacket	90 psi (6.2 bar)				
Stainless steel jacketed mixers ASME U-1 code stamped	Optional				
Mettler Toledo SWB505 MultiMount™ load cells (qty 3)	0-100 kg ±1% FS	0-200 kg ±1% FS	0-500 kg ±1% FS	0-1000 kg ±1% FS	0-2000 kg ±1% FS for 2000 L 0-2500 kg ±1% FS for 2500 L 0-3000 kg ±1% FS for 3000 L
Load Cell Ingress protection rating	IP 68				
RTD temperature sensor JUMO	0-60 °C ±1 °C				
Single-use pH sensor Hamilton®	3-10 pH ±0.15 pH from 0 to 18 months 3-10 pH ±0.2 pH from 18 to 24 months After product calibration at ±1 pH around calibration point: 3-10 pH ±0.1 pH from 0 to 18 months 3-10 pH ±0.15 pH from 18 to 24 months				
Multi-use pH sensor Hamilton®	0-14 pH ±0.1 pH				
Single-use Conductivity sensor Hamilton®	0.1-100 mS/cm ±5% MV 100-200 mS/cm ±8% MV 200-300 mS/cm ±10% MV				
Multi-use Conductivity sensor Hamilton®	0.1-100 mS/cm ±3% MV 100-300 mS/cm ±5% MV				
Storage temperature	0-40 °C (non-condensing environment)				
Operating temperature	4-60 °C (non-condensing environment)				
<b>Motor</b>					
Weight lb (kg)	25 lb (12 kg)	25 lb (12 kg)	25 lb (12 kg)	30 lb (14 kg)	30 lb (14 kg)
Electrical (max)	250 W	250 W	250 W	550 W	550 W
Impeller Speed Operating Range*	36-380 rpm	36-380 rpm	36-375 rpm	46-380 rpm	46-380 rpm
Cable length	6 ft (1.8 m)	6 ft (1.8 m)	6 ft (1.8 m)	12 ft (3.7 m)	12 ft (3.7 m)
Ingress protection rating	IP 55				
Regulatory information	CE marked				
<b>Standard Control Box</b>					
Materials of construction	304L stainless steel				
Weight lb (kg)	21 lb (10 kg)				
Electrical	120 V, 60 Hz, 10 A or 230 V, 50 Hz, 3.5 A	120 V, 60 Hz, 10 A or 230 V, 50 Hz, 3.5 A	120 V, 60 Hz, 10 A or 230 V, 50 Hz, 3.5 A	120 V, 60 Hz, 20 A or 230 V, 50 Hz, 10 A	120 V, 60 Hz, 20 A or 230 V, 50 Hz, 10 A

Description	100 L	200 L	500 L	1000 L	2000 L
<b>Standard Control Box</b>					
Cable length			16 ft (4.9 m)		
Ingress protection rating			IP 55		
Regulatory information			CE marked		
<b>Standard Display Box (with temperature sensor and load cell display)</b>					
Materials of construction			304L stainless steel		
Weight lb (kg)			Permanently mounted to carrier		
Electrical			120/230 V, 50/60 Hz, 1 A		
Cable length			16 ft (4.9 m)		
Ingress protection rating			IP 55		
Regulatory information			CE marked		
<b>Ready To Connect Control Box</b>					
Materials of construction			304L stainless steel		
<b>Dimensions</b>					
L × W			29 × 22 in. (740 × 570 mm)		
Height			49 in. (1240 mm)		
Weight			238 lb (108 kg)		
Electrical			100–120 VAC, 50/60 Hz, 12.9 A 200–240 VAC, 50/60 Hz, 7.2 A		
Cable length			16 ft (4.9 m)		
Ingress protection rating			IP 55		
Regulatory information			CE marked		
Data Recorder Eurotherm			Optional		

\* ±10 rpm accuracy. Reaching maximum speed is only possible when impeller is submerged with liquid. Maximum operating speed has to be validated for each process individually, depending on volume, viscosity, etc.

## Mobius® Power MIX Single-Use Assembly Materials of Construction

<b>Bag</b>	
Mobius® Power MIX Bags	PureFlex™ film, PureFlex™ Plus film or Ultimus® film, PP impeller, HDPE impeller cup, PE and/or Polyolefin ports, silicone o-ring/gasket
PureFlex™ film, PureFlex™ Plus film, Ultimus® film	Ultra Low Density Polyethylene (ULDPE)
Hamilton® single-use conductivity sensor	HDPE, Platinum, Glass, Ceramic
<b>Tubing</b>	
Pharma 50 Tubing	Silicone
Pharma-65 Tubing	Silicone
C-Flex® Tubing	Thermoplastic Elastomer (TPE)
<b>NovaSeptum® Products</b>	
NovaSeptum® 2D Bags	PureFlex™ film, HDPE
NovaSeptum® Sampling Bags	PureFlex™ film, Thermoplastic Elastomer (TPE), Polycarbonate, Polyimide, Polysulfone, Polyethylene
SmartSite® Valve	Acrylic
<b>Other components</b>	
Caps	Polypropylene
Colder Quick Connect Fittings	Polycarbonate, Polysulfone, Polyethylene, Silicone
Gaskets	Platinum-cured silicone
Luers	PVDF, Polypropylene
Tri-Clamp to Hose Barb Adapters	Polypropylene, Silicone
Port Plugs	Polypropylene
AseptiQuik® connector	Polycarbonate, Silicone seal
Hamilton® single-use pH sensor	Glass, Silicone O-ring

## Ordering information

### Plastic Mobius® Power MIX Carriers

A complete system is made up of carrier, control box, motor and power cord

Description	Power MIX100	Power MIX200	Power MIX500
<b>Carrier Only</b>			
HDPE Carrier	MXR100HDPE	MXR200HDPE	MXR500HDPE
<b>Control Box</b>			
Control box unit, 120 V	MXRCTRLB1	MXRCTRLB1	MXRCTRLB1
Control box unit, 230 V	MXRCTRLB2	MXRCTRLB2	MXRCTRLB2
<b>Motor</b>			
Motor	MXRMTR1	MXRMTR1	MXRMTR1
<b>Power Cords (Country specific)</b>			
North America, 125 V (10 A)	MXRPCNA125		
Europe, 250 V (10 A)	MXRPCEU		
China, 250 V (10A)	MXRPCCHINA		
Argentina, Australia, Colombia, New Zealand, Paraguay, Uruguay	MXRPCAACNPU		
Denmark	MXRPCDN		
Israel	MXRPCIS		
Chile, Ethiopia, Italy, 250 V (10 A)	MXRPCCEI		
Bangladesh, Burma, Pakistan, South Africa, Sri Lanka	MXRPCBBPSS		
Switzerland	MXRPCSZ		
UK, Ireland	MXRPCUK		

### Stainless Steel Mobius® Power MIX Carriers with Standard Control box

A complete system is made up of carrier, control box, motor and power cords

Description	Power MIX100	Power MIX200	Power MIX500	Power MIX1000	Power MIX2000	Power MIX2500	Power MIX3000
<b>Carrier Only (provided with display box with temperature sensor and load cell displays)</b>							
Stainless steel jacketed, ASME certified with temperature sensor	MXRJ100TA	MXRJ200TA	MXRJ500TA	MXRJ1000TA			
Stainless steel jacketed, ASME certified with temperature sensor and load cells	MXRJ100TLA	MXRJ200TLA	MXRJ500TLA	MXRJ1000TLA	MXRJ2000TLA	MXRJ2000TLA + MXREXT500*	MXRJ2000TLA + 2x MXREXT500*
Stainless steel jacketed with temperature sensor and load cells					MXRJ2000TL	MXRJ2000TL + MXREXT500*	MXRJ2000TL + 2x MXREXT500*
Stainless steel jacketed with temperature sensor, load cells, and hoist					MXRJ2000HTL		
Stainless steel jacketed, ASME certified with temperature sensor, load cells, and hoist					MXRJ2000HTLA		
<b>Control Box</b>							
Control box unit, 120 V	MXRCTRLB1	MXRCTRLB1	MXRCTRLB1	MXRCTRLB2K	MXRCTRLB2K	MXRCTRLB2K	MXRCTRLB2K
Control box unit, 230 V	MXRCTRLB2	MXRCTRLB2	MXRCTRLB2	MXRCTRLB2K2	MXRCTRLB2K2	MXRCTRLB2K2	MXRCTRLB2K2

\* When extension ring is purchased separately, adding it on existing Mobius® Power MIX requires modification of weight calibration settings. Please contact our sales representatives to support you with the selection of the relevant service.

Description	Power MIX100	Power MIX200	Power MIX500	Power MIX1000	Power MIX2000	Power MIX2500	Power MIX3000
<b>Motor</b>							
Motor	MXRMTR1	MXRMTR1	MXRMTR1	MXRMTR2K	MXRMTR2K	MXRMTR2K	MXRMTR2K
<b>Power Cords (Country specific, two identical power cords must be purchased – one power cord for the removable control box and one power cord for the display box)</b>							
North America, 125 V (20 A)**	MXRPCNA1K2K						
North America, 125 V (10 A)**	MXRPCNA125						
Europe, 250 V (10 A)	MXRPCEU						
China, 250 V (10 A)	MXRPCCHINA						
Argentina, Australia, Colombia, New Zealand, Paraguay, Uruguay	MXRPCAACNPU						
Denmark	MXRPCDN						
Israel	MXRPCIS						
Chile, Ethiopia, Italy, 250 V (10 A)	MXRPCCEI						
Bangladesh, Burma, Pakistan, South Africa, Sri Lanka	MXRPCBBPSS						
Switzerland	MXRPCSZ						
UK, Ireland	MXRPCUK						

\*\* In NA when purchasing MXRCTRLB1 control box 2× MXRPCNA125 must be purchased. When purchasing MXRCTRLB2K control box the two power cords that need to be purchased are 1× MXRPCNA1K2K and 1× MXRPCNA125.

**Single-Use Assemblies to Fit Mobius® Power MIX Carriers with Standard Control Box**

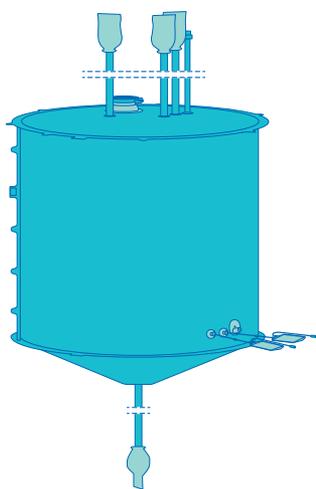
Volume	Film	Part Code	Closed Top Bag	Liner	Cert.	Qty / Pk	Top Ports						Bottom port	Side Ports	
							1/4" ID Silicone tubing – 36"	1/2" ID Silicone tubing – 36" + Female Colder MPX + Plug	3/4" ID Silicone tubing – 36" + 1,5" TC	3/4" ID Silicone tubing – 36" + Female Colder MPU + Plug	1" ID Silicone tubing – 36" + 1,5" TC	4" TC Powder port + Cap	1/2" ID Silicone tubing – 60" + 1,5" TC	3/4" ID Silicone tubing – 60" + 1,5" TC	1" ID Silicone tubing – 60" + 1,5" TC
100 L	PureFlex™	MXRA0100B4	✓		Bronze	4	1	1	1	1	1	1	2	1	
		MXRA0100G4	✓		Gold	4	1	1	1	1	1	1	2	1	
		MXRL0100B4		✓	Bronze	4						1	2	1	
	PureFlex™ Plus	MXRA0100BPL4	✓		Bronze	4	1	1	1	1	1	1	2	1	
		MXRA0100GPL4	✓		Gold	4	1	1	1	1	1	1	2	1	
		MXRL0100BPL4		✓	Bronze	4						1	2	1	
200 L	PureFlex™	MXRA0200B4	✓		Bronze	4	1	1	1	1	1	1	2	1	
		MXRA0200G4	✓		Gold	4	1	1	1	1	1	1	2	1	
		MXRL0200B4		✓	Bronze	4						1	2	1	
	PureFlex™ Plus	MXRA0200BPL4	✓		Bronze	4	1	1	1	1	1	1	2	1	
		MXRA0200GPL4	✓		Gold	4	1	1	1	1	1	1	2	1	
		MXRL0200BPL4		✓	Bronze	4						1	2	1	
500 L	PureFlex™	MXRA0500B2	✓		Bronze	2		1		1	2	1	1	2	1
		MXRA0500G2	✓		Gold	2		1		1	2	1	1	2	1
		MXRL0500B2		✓	Bronze	2							1	2	1
	PureFlex™ Plus	MXRA0500BPL2	✓		Bronze	2		1		1	2	1	1	2	1
		MXRA0500GPL2	✓		Gold	2		1		1	2	1	1	2	1
		MXRL0500BPL2		✓	Bronze	2							1	2	1

### Single-Use Assemblies to Fit Mobius® Power MIX Carriers with Standard Control Box

Volume	Film	Part Code	Closed Top Bag	Liner	Cert.	Qty / Pk	Top Ports				Bottom port	Side Ports	
							3/4" ID Silicone tubing – 66" Female Colder MPU + Plug	3/4" ID Silicone tubing – 118" + Female Colder MPU + Plug	1" ID Silicone tubing – 66" + 1.5" TC	1" ID Silicone tubing – 118" + 1.5" TC			4" TC Powder port + Cap
1000 L	PureFlex™	MXRA1000B1	✓		Bronze	1	1	3	1	1		2	1
		MXRA1000G1	✓		Gold	1	1	3	1	1		2	1
		MXRL1000B1		✓	Bronze	1					1		2
	PureFlex™ Plus	MXRA1000BPL1	✓		Bronze	1	1	3	1	1		2	1
		MXRA1000GPL1	✓		Gold	1	1	3	1	1		2	1
		MXRL1000BPL1		✓	Bronze	1					1		2
2000 L	PureFlex™ Plus	MXRA2000BPL1	✓		Bronze	1	1	3	1		1	2	1
		MXRA2000GPL1	✓		Gold	1	1	3	1		1	2	1
		MXRL2000BPL1		✓	Bronze	1					1		2

### Single-Use Assemblies to Fit Mobius® Power MIX Carriers with Standard Control Box

Volume	Film	Part Code	Closed Top Bag	Liner	Cert.	Qty / Pk	Top Ports				Bottom port	Side Ports	
							3/4" ID Silicone tubing – 63" + Female Colder MPU + Plug	3/4" ID Silicone tubing – 84" + Female Colder MPU + Plug	1" ID Silicone tubing – 63" + 1.5" TC	1" ID Silicone tubing – 84" + 1.5" TC			4" TC Powder port + Cap
2500 L	PureFlex™ Plus	MXRA2500BPL1	✓		Bronze	1	1	3	1	1		2	1
		MXRA2500GPL1	✓		Gold	1	1	3	1	1		2	1
3000 L	PureFlex™ Plus	MXRA3000BPL1	✓		Bronze	1	1	3	1	1		2	1
		MXRA3000GPL1	✓		Gold	1	1	3	1	1		2	1



Example of 200 L single-use assembly

## Stainless Steel Mobius® Power MIX Carriers with Ready To Connect Control Box

A complete system is made up of carrier, control box, motor and power cord

Description	Power MIX100	Power MIX200	Power MIX500	Power MIX1000
<b>Carrier Only</b>				
Stainless steel jacketed with temperature sensor and load cells	SMXRJ100TL	SMXRJ200TL	SMXRJ500TL	SMXRJ1000TL
Stainless steel jacketed, ASME certified with temperature sensor and load cells	SMXRJ100TLA	SMXRJ200TLA	SMXRJ500TLA	SMXRJ1000TLA
Stainless steel jacketed with temperature sensor, load cells and hoist				
Stainless steel jacketed, ASME certified with temperature sensor, load cells and hoist				
<b>Control Box</b>				
Control Box Unit, 115 V – 60 Hz	SMCBPMC1V1EU	SMCBPMC1V1EU	SMCBPMC1V1EU	SMCBPMC2V1EU
Control Box Unit, 115 V – 60 Hz-Sensor Pack (pH & Conductivity)	SMCBPMC1V1SEU	SMCBPMC1V1SEU	SMCBPMC1V1SEU	SMCBPMC2V1SEU
Control Box Unit, 115 V – 60 Hz-Data Recorder	SMCBPMC1V1REU	SMCBPMC1V1REU	SMCBPMC1V1REU	SMCBPMC2V1REU
Control Box Unit, 115 V – 60 Hz-Sensor Pack (pH & Conductivity) – Data Recorder	SMCBPMC1V1SREU	SMCBPMC1V1SREU	SMCBPMC1V1SREU	SMCBPMC2V1SREU
Control Box Unit, 230 V – 60 Hz	SMCBPMC1V3EU	SMCBPMC1V3EU	SMCBPMC1V3EU	SMCBPMC2V3EU
Control Box Unit, 230 V – 60 Hz-Sensor Pack (pH & Conductivity)	SMCBPMC1V3SEU	SMCBPMC1V3SEU	SMCBPMC1V3SEU	SMCBPMC2V3SEU
Control Box Unit, 230 V – 60 Hz-Data Recorder	SMCBPMC1V3REU	SMCBPMC1V3REU	SMCBPMC1V3REU	SMCBPMC2V3REU
Control Box Unit, 230 V – 60 Hz-Sensor Pack (pH & Conductivity) – Data Recorder	SMCBPMC1V3SREU	SMCBPMC1V3SREU	SMCBPMC1V3SREU	SMCBPMC2V3SREU
<b>Motor</b>				
Motor	MXRMTR1	MXRMTR1	MXRMTR1	MXRMTR2K
<b>Power Cords (Country specific)</b>				
North America, NEMA 5-15P, IEC Plug Type B	SMPCNA			
Europe, CEE 7/7, IEC Plug Type F	SMPCEU			
Australia, New Zealand, AS/NZS 3112, IEC Plug Type I	SMPCANZ			
India, IS1293, IEC Plug Type M	SMPCIN			
Switzerland, SEV-1011 Type 12, IEC Plug Type J	SMPCSZ			
United Kingdom, BS 1363/A, IEC Plug Type G	SMPCUK			
Japan, JIS 8303, IEC Plug Type B	SMPCJP			
China, GB2099, IEC Plug Type I	SMPCCH			
South Korea Plug Type F	SMPCKR			
Single Phase No Plug	SMPC1FLEU			
Single Phase No Plug for North America	SMPC1FLUS			

\* When extension ring is purchased separately, adding it on existing Power MIX requires modification of weight calibration settings. Please contact our sales representatives to support you with the selection of the relevant service.

**For Mobius® Power MIX Carriers with Smart control box please contact your sales representative for a quotation.**

## Stainless Steel Mobius® Power MIX Carriers with Ready To Connect Control Box

A complete system is made up of carrier, control box, motor and power cord

Description	Power MIX2000	Power MIX2500	Power MIX3000
<b>Carrier Only</b>			
Stainless steel jacketed with temperature sensor and load cells	SMXRJ2000TL	SMXRJ2000TL + MXREXT500*	SMXRJ2000TL + 2× MXREXT500*
Stainless steel jacketed, ASME certified with temperature sensor and load cells	SMXRJ2000TLA	SMXRJ2000TLA + MXREXT500*	SMXRJ2000TLA + 2× MXREXT500*
Stainless steel jacketed with temperature sensor, load cells and hoist	SMXRJ2000HTL		
Stainless steel jacketed, ASME certified with temperature sensor, load cells and hoist	SMXRJ2000HTLA		

\* When extension ring is purchased separately, adding it on existing Power MIX requires modification of weight calibration settings. Please contact our sales representatives to support you with the selection of the relevant service.

<b>Control Box</b>			
Control Box Unit, 115 V – 60 Hz	SMCBPMC2V1EU	SMCBPMC2V1EU	SMCBPMC2V1EU
Control Box Unit, 115 V – 60 Hz-Sensor Pack (pH & Conductivity)	SMCBPMC2V1SEU	SMCBPMC2V1SEU	SMCBPMC2V1SEU
Control Box Unit, 115 V – 60 Hz-Data Recorder	SMCBPMC2V1REU	SMCBPMC2V1REU	SMCBPMC2V1REU
Control Box Unit, 115 V – 60 Hz-Sensor Pack (pH & Conductivity) – Data Recorder	SMCBPMC2V1SREU	SMCBPMC2V1SREU	SMCBPMC2V1SREU
Control Box Unit, 230 V – 60 Hz	SMCBPMC2V3EU	SMCBPMC2V3EU	SMCBPMC2V3EU
Control Box Unit, 230 V – 60 Hz-Sensor Pack (pH & Conductivity)	SMCBPMC2V3SEU	SMCBPMC2V3SEU	SMCBPMC2V3SEU
Control Box Unit, 230 V – 60 Hz-Data Recorder	SMCBPMC2V3REU	SMCBPMC2V3REU	SMCBPMC2V3REU
Control Box Unit, 230 V – 60 Hz-Sensor Pack (pH & Conductivity) – Data Recorder	SMCBPMC2V3SREU	SMCBPMC2V3SREU	SMCBPMC2V3SREU
<b>Motor</b>			
Motor	MXRMTR2K	MXRMTR2K	MXRMTR2K
<b>Power Cords (Country specific)</b>			
North America, NEMA 5-15P, IEC Plug Type B	SMPCNA		
Europe, CEE 7/7, IEC Plug Type F	SMPCEU		
Australia, New Zealand, AS/NZS 3112, IEC Plug Type I	SMPCANZ		
India, IS1293, IEC Plug Type M	SMPCIN		
Switzerland, SEV-1011 Type 12, IEC Plug Type J	SMPCSZ		
United Kingdom, BS 1363/A, IEC Plug Type G	SMPCUK		
Japan, JIS 8303, IEC Plug Type B	SMPCJP		
China, GB2099, IEC Plug Type I	SMPCCH		
South Korea Plug Type F	SMPCKR		
Single Phase No Plug	SMPC1FLEU		
Single Phase No Plug for North America	SMPC1FLUS		

\* When extension ring is purchased separately, adding it on existing Power MIX requires modification of weight calibration settings. Please contact our sales representatives to support you with the selection of the relevant service.

**For Mobius® Power MIX Carriers with Smart control box please contact your sales representative for a quotation.**

**Single-Use Assemblies to Fit Mobius® Power MIX Carriers with Ready To Connect and Smart Control Boxes**

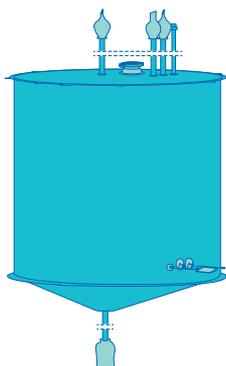
Volume	Film	Part Code	Closed Top Bag Liner	Cert.	Qty / Pk	Top Ports					Bottom port	Side Ports					
						1/4" ID Silicone tubing – 36" + 1/4" Female Luer + Cap	1/2" ID Silicone tubing – 36" + Female Colder MPX + Plug	3/4" ID Silicone tubing – 36" + 1,5" SterilEnz® TC + Cap	3/4" ID Silicone tubing – 36" + Female Colder MPU + Plug	1" ID Silicone tubing – 36" + 1,5" TC + Cap	4" TC Powder port + Cap	3/4" ID Silicone tubing – 60" + 1.5" SterilEnz® TC + Cap	1" ID Silicone tubing – 60" + 1,5" TC + Cap	Needle Free Sample Port + NovaSeptum NS711-10250 – 250 mL BAG	Needle Free Sample Port + AseptiQuik® S for NovaSeptum® SURe Sampling Assemblies	Probe port for Multi-Use Sensor + Cap	Single-Use pH sensor*
100 L	PureFlex™	SMXRA0100LB4M	✓	Bronze	4	1	1	1	1	1	1	1	2				
		SMXRA0100LS4M	✓	Silver	4	1	1	1	1	1	1	1	2				
		SMXRA0100LG4M	✓	Gold	4	1	1	1	1	1	1	1	2				
		SMXRL0100LB4M	✓	Bronze	4							1	1	2			
		SMXRA0100LB4S	✓	Bronze	4	1	1	1	1	1	1	1	1	1	1	1	1
	Ultimus®	SMXRA0100LS4S	✓	Silver	4	1	1	1	1	1	1	1	1	1	1	1	1
		SMXRL0100LB4S	✓	Bronze	4							1	1	1	1	1	1
		SMXRA0100LSU2M	✓	Silver	2	1	1	1	1	1	1	1	1	2			
		SMXRA0100LGU2M	✓	Gold	2	1	1	1	1	1	1	1	1	2			
		SMXRA0100LSU2S	✓	Silver	2	1	1	1	1	1	1	1	1	1	1	1	1
200 L	PureFlex™	SMXRA0200LB4M	✓	Bronze	4	1	1	1	1	1	1	1	2				
		SMXRA0200LS4M	✓	Silver	4	1	1	1	1	1	1	1	2				
		SMXRA0200LG4M	✓	Gold	4	1	1	1	1	1	1	1	2				
		SMXRL0200LB4M	✓	Bronze	4							1	1	2			
		SMXRA0200LB4S	✓	Bronze	4	1	1	1	1	1	1	1	1	1	1	1	1
	Ultimus®	SMXRA0200LS4S	✓	Silver	4	1	1	1	1	1	1	1	1	1	1	1	1
		SMXRL0200LB4S	✓	Bronze	4							1	1	1	1	1	1
		SMXRA0200LSU2M	✓	Silver	2	1	1	1	1	1	1	1	1	2			
		SMXRA0200LGU2M	✓	Gold	2	1	1	1	1	1	1	1	1	2			
		SMXRA0200LSU2S	✓	Silver	2	1	1	1	1	1	1	1	1	1	1	1	1
500 L	PureFlex™ Plus	SMXRA0500LB2M	✓	Bronze	2		1	1	2	1	1	1	2				
		SMXRA0500LS2M	✓	Silver	2		1	1	2	1	1	1	2				
		SMXRA0500LG2M	✓	Gold	2		1	1	2	1	1	1	2				
		SMXRL0500LB2M	✓	Bronze	2							1	1	2			
		SMXRA0500LB2S	✓	Bronze	2		1	1	2	1	1	1	1	1	1	1	1
	Ultimus®	SMXRA0500LS2S	✓	Silver	2		1	1	2	1	1	1	1	1	1	1	1
		SMXRL0500LB2S	✓	Bronze	2							1	1	1	1	1	1
		SMXRA0500LSU2M	✓	Silver	2		1	1	2	1	1	1	1	2			
		SMXRA0500LGU2M	✓	Gold	2		1	1	2	1	1	1	1	2			
		SMXRA0500LSU2S	✓	Silver	2		1	1	2	1	1	1	1	1	1	1	1
SMXRA0500LGU2S	✓	Gold	2		1	1	2	1	1	1	1	1	1	1	1		

\* Compatible with Smart control box only

## Single-Use Assemblies to Fit Mobius® Power MIX Carriers with Ready To Connect and Smart Control Boxes

Volume	Film	Part Code	Closed Top Bag Liner	Cert.	Qty / Pk	Top Ports			Bottom port	Side Ports			
						3/4" ID Silicone tubing – 66" + Female Colder MPU + Plug	3/4" ID Silicone tubing – 120" + Female Colder MPU + Plug	1" ID Silicone tubing – 66" + 1.5" TC + Cap	1" ID Silicone tubing – 120" + 1.5" TC + Cap	4" TC Powder port + Cap	1" ID Silicone tubing – 66" + 1.5" TC + Cap	1" ID Silicone tubing – 120" + 1.5" TC + Cap	Needle Free Sample Port + NovaSeptum® NS711-10250 – 250 mL BAG
1000 L	PureFlex™	SMXRA1000LB1M	✓	Bronze	1	1	3	1	1	1	2		
		SMXRA1000LS1M	✓	Silver	1	1	3	1	1	1	2		
		SMXRA1000LG1M	✓	Gold	1	1	3	1	1	1	2		
		SMXRL1000LB1M	✓	Bronze	1					1	2		
		SMXRA1000LB1S	✓	Bronze	1	1	3	1	1		1	1	1
		SMXRA1000LS1S	✓	Silver	1	1	3	1	1		1	1	1
	Ultimus®	SMXRL1000LB1S	✓	Bronze	1						1	1	1
		SMXRA1000LSU1M	✓	Silver	1	1	3	1	1		1	2	
		SMXRA1000LGU1M	✓	Gold	1	1	3	1	1		1	2	
		SMXRA1000LSU1S	✓	Silver	1	1	3	1	1		1	1	1
		SMXRA1000LGU1S	✓	Gold	1	1	3	1	1		1	1	1
2000 L	PureFlex™	SMXRA2000LB1M	✓	Bronze	1	1	3	1	1	1	2		
		SMXRA2000LS1M	✓	Silver	1	1	3	1	1	1	2		
		SMXRA2000LG1M	✓	Gold	1	1	3	1	1	1	2		
		SMXRL2000LB1M	✓	Bronze	1						1	2	
		SMXRA2000LB1S	✓	Bronze	1	1	3	1	1	1	1	1	1
		SMXRA2000LS1S	✓	Silver	1	1	3	1	1	1	1	1	1
	Ultimus®	SMXRL2000LB1S	✓	Bronze	1						1	1	1
		SMXRA2000LSU1M	✓	Silver	1	1	3	1	1	1	1	2	
		SMXRA2000LGU1M	✓	Gold	1	1	3	1	1	1	1	2	
		SMXRA2000LSU1S	✓	Silver	1	1	3	1	1	1	1	1	1
		SMXRA2000LGU1S	✓	Gold	1	1	3	1	1	1	1	1	1
2500 L	Ultimus®	SMXRA2500LSU1M	✓	Silver	1	1	3	1	1	1	2		
		SMXRA2500LGU1M	✓	Gold	1	1	3	1	1	1	2		
		SMXRA2500LSU1S	✓	Silver	1	1	3	1	1	1	1	1	
			SMXRA2500LGU1S	✓	Gold	1	1	3	1	1	1	1	1
3000 L	Ultimus®	SMXRA3000LSU1M	✓	Silver	1	1	3	1	1	1	2		
		SMXRA3000LGU1M	✓	Gold	1	1	3	1	1	1	2		
		SMXRA3000LSU1S	✓	Silver	1	1	3	1	1	1	1	1	
		SMXRA3000LGU1S	✓	Gold	1	1	3	1	1	1	1	1	

\* Compatible with Smart control box only



Example of 2000 L single-use assembly

Learn more at

[SigmaAldrich.com/mixers](https://SigmaAldrich.com/mixers)

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