

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 CCP® software that allows real-time monitoring and control of all process parameters, ensuring reproducibility of your mixing process. CCP® 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.

CCP® Software

CCP® 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

CCP® software is designed to meet the regulatory requirements needed to operate in a GMP environment. The software is in line with GAMP® 5 recommendations for automation software, and facilitates compliance with 21 CFR Part 11 requirements for electronic records and signatures.



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 PG 13.5 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

PureFlex™ Film is also available in our Mobius® Power MIX Single-Use assemblies, please refer to Specification Sheet (**SP1005EN**) available at 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	These tests can be any one or a combination of the following test methods USP<88> Systemic Injection Test (<i>In Vivo</i>), USP 87 Cytotoxicity Elution Test (<i>In Vitro</i>), ISO 10993-5 (<i>In Vitro</i>)
Gold	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
Silver	2 years	Sterilized using a validated irradiation level of 25–40 kGy	Quarterly review of results, post-irradiation	In-process testing	Post-irradiation
Bronze	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 as 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
- 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 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

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 Specification

Description	100 L	200 L	500 L
Carrier			
Materials of construction			
Tank	MDPE		
Stand	HDPE		
Latch	300 series stainless steel		
Casters	304 SS with polyurethane wheel		
Dimensions			
L × W	904 x 798 mm (35.6 x 31.4 in)	937 x 798 mm (36.9 x 31.4 in)	1095 x 1080 mm (43.1 x 42.5 in)
Height	1242 mm (48.9 in)	1273 mm (50.1 in)	1666 mm (65.6 in)
Weight	40 kg (88 lb)	44 kg (97 lb)	71 kg (156 lb)
Minimum working volume (to cover the impeller)	10 L	20 L	50 L
Minimum sampling volume	20 L	45 L	100 L
Maximum filling volume	110 L	220 L	550 L
Storage temperature	0–40 °C (non-condensing environment)		
Operating temperature	4–40 °C (non-condensing environment)		
Motor			
Weight kg (lb)	12 kg (25 lb)		
Electrical (max)	250 W		
Impeller Speed Operating Range*	36–380 rpm	36–380 rpm	36–375 rpm
Cable length	1.8 m (6 ft)		
Ingress protection rating	IP 55		
Regulatory information	CE marked		
Control Box			
Materials of construction	304 L stainless steel		
Weight kg (lb)	10 kg (21 lb)		
Electrical	230 VAC, 50/60 Hz, 3.5 A or 120 VAC, 50/60 Hz, 10 A		
Cable length	4.9 m (16 ft)		
Ingress protection rating	IP 55		
Regulatory information	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 Specification

Description	100 L	200 L	500 L	1000 L	2000 L
Carrier					
Materials of construction					
Tank	304 L stainless steel				
Stand	304 L stainless steel				
Latch	18–8 stainless steel				
Casters	304 L stainless steel	304 L stainless steel	304 L stainless steel	304 L stainless steel	N/A
Dimensions					
L × W	950 x 817 mm (37.4 x 32.2 in)	1050 x 922 mm (41.4 x 36.3 in)	1240 x 1166 mm (48.9 x 45.9 in)	1380 x 1357 mm (54.4 x 53.5 in)	1554 x 1604 mm (61.2 x 63.2 in)
Height	1376 mm (54.2 in)	1360 mm (53.6 in)	1613 mm (63.5 in)	2034 mm (80.1 in)	2330 mm (91.8 in)
Weight	250 kg (552 lb)	350 kg (772 lb)	420 kg (926 lb)	720 kg (1588 lb)	900 kg (1985 lb)
Minimum working volume (to cover the impeller)	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.)	4.5 L (1.2 gal)	7.2 L (1.9 gal)	13.5 L (3.6 gal)	25.5 L (6.8 gal)	30 L (8 gal)
Heat transfer area of jacket (approx.)	0.71 sq. m (7.6 sq. ft)	1.1 sq. m (12.1 sq. ft)	2.1 sq. m (22.7 sq. ft)	3.4 sq. m (36.3 sq. ft)	5.4 sq. m (57.7 sq. ft)
Operating pressure of jacket	6.2 bar (90 psi)				
Stainless steel jacketed mixers ASME U-1 code stamped	Standard				
Mettler Toledo SWB505 MultiMount™ load cells (qty 3)	0–120 kg ±1 kg	0–240 kg ±2 kg	0–600 kg ±5 kg	0–1200 kg ±10 kg	0–2400 kg ±20 kg 0–3000 kg ±25 kg 0–3600 kg ±30 kg
Load Cell Ingress protection rating	IP 68				
RTD temperature sensor JUMO	0–60 °C ±1.0 °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				
Multi-use Conductivity sensor Hamilton®*	0.1–200 mS/cm ±10% FS				
Storage temperature	0–40 °C (non-condensing environment)				
Operating temperature	4–60 °C (non-condensing environment)				
Motor					
Weight lb (kg)	12 kg (25 lb)	12 kg (25 lb)	12 kg (25 lb)	14 kg (30 lb)	14 kg (30 lb)
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	1.8 m (6 ft)	1.8 m (6 ft)	1.8 m (6 ft)	3.7 m (12 ft)	3.7 m (12 ft)
Ingress protection rating	IP 55				
Regulatory information	CE marked				
Standard Control Box					
Materials of construction	304 L stainless steel				
Weight lb (kg)	30 kg (66.2 lb)				
L x W	469 x 308 mm (18.5 x 12.2 in.)				
Height	1040 mm (41 in.)				
Electrical	200–240 VAC, 50/60 Hz, 5 A or 100–120 VAC, 50/60 Hz, 7 A			200–240 VAC, 50/60 Hz, 6 A or 100–120 VAC, 50/60 Hz, 10 A	

Description	100 L	200 L	500 L	1000 L	2000 L
Standard Control Box					
Cable length	4.8 m (15.8 ft)				
Ingress protection rating	IP 55				
Regulatory information	CE marked and NRTL marked				
Ready To Connect Control Box					
Materials of construction	304 L stainless steel				
Dimensions					
L × W	740 x 570 mm (29 x 22 in)				
Height	1250 mm (49.2 in)				
Weight	108 kg (238 lb)				
Electrical	200–240 VAC, 50/60 Hz, 7 A or 100–120 VAC, 50/60 Hz, 11 A			200–240 VAC, 50/60 Hz, 6 A or 100–120 VAC, 50/60 Hz, 10 A	
Cable length	4.8 m (15.8 ft)				
Ingress protection rating	IP 55				
Regulatory information	CE marked and NRTL marked				
Data Recorder Eurotherm	Optional				

* Based on the conductivity sensor characterization, the measuring range can go up to 300 mS/cm. 200–300 mS/cm ±10% MV.

** ±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

Bag	
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
Tubing	
Pharma 50 Tubing	Silicone
Pharma-65 Tubing	Silicone
C-Flex® Tubing	Thermoplastic Elastomer (TPE)
NovaSeptum® Products	
NovaSeptum® 2D Bags	PureFlex™ film, HDPE
NovaSeptum® Sampling Bags	PureFlex™ film, Thermoplastic Elastomer (TPE), Polycarbonate, Polyimide, Polysulfone, Polyethylene
SmartSite® Valve	Acrylic
Other components	
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 MIX 100	Power MIX 200	Power MIX 500
Carrier Only			
HDPE Carrier	MXR100HDPE	MXR200HDPE	MXR500HDPE
Control Box			
Control box unit, 120 V		MXRCTRLB1	
Control box unit, 230 V		MXRCTRLB2	
Motor			
Motor		MXRMTR1	
Motor for China		MXRMTR1CN	
Power Cords (Country specific)			
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

A complete system is made up of carrier, control box (standard or ready to connect), motor and power cord

Description	Power MIX 100	Power MIX 200	Power MIX 500	Power MIX 1000	Power MIX 2000	Power MIX 2500	Power MIX 3000
Carrier Only							
Mobius® Power MIX Stainless Steel Jacketed Carrier with Temperature Sensor, ASME cert	SMXRJ100TA	SMXRJ200TA	SMXRJ500TA	SMXRJ1000TA			
Mobius® Power MIX Stainless Steel Jacketed Carrier with Temperature Sensor and Load Cells, ASME cert	SMXRJ100TLA	SMXRJ200TLA	SMXRJ500TLA	SMXRJ1000TLA	SMXRJ2000TLA	SMXRJ2000TLA + MXREXT500*	SMXRJ2000TLA + 2x MXREXT500*
Mobius® Power MIX Stainless Steel Jacketed Carrier with Hoist, Temperature Sensor and Load Cells, ASME cert					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.

Standard Control Box	
Control Box Power MIX 100/200/500 L, 115 V with Temperature Display	CBPMC1V1T
Control Box Power MIX 100/200/500 L, 115 V with Temperature and Load Cells Display	CBPMC1V1TL
Control Box Power MIX 100/200/500 L, 230 V with Temperature Display	CBPMC1V3T
Control Box Power MIX 100/200/500 L, 230 V with Temperature and Load Cells Display	CBPMC1V3TL
Control Box Power MIX 1 K, 115 V with Temperature Display	CBPMC2V1T

Stainless Steel Mobius® Power MIX Carriers (Continued)

Description	Power MIX 100	Power MIX 200	Power MIX 500	Power MIX 1000	Power MIX 2000	Power MIX 2500	Power MIX 3000
Control Box Power MIX 1 K/2 K/2,5 K/3 KL, 115 V with Temperature and Load Cells Display						CBPMC2V1TL	
Control Box Power MIX 1 K, 230 V with Temperature Display				CBPMC2V3T			
Control Box Power MIX 1 K/2 K/2,5 K/3 KL, 230 V with Temperature and Load Cells Display						CBPMC2V3TL	
Ready To Connect Control Box							
Ready To Connect Control Box Power MIX, 115 V		SMCBPMC1V1EU				SMCBPMC2V1EU	
Ready To Connect Control Box Power MIX, 115 V with pH & Conductivity Sensors		SMCBPMC1V1SEU				SMCBPMC2V1SEU	
Ready To Connect Control Box Power MIX, 115 V with Data Recorder		SMCBPMC1V1REU				SMCBPMC2V1REU	
Ready To Connect Control Box Power MIX, 115 V with pH&Conductivity Sensors and Data Recorder		SMCBPMC1V1SREU				SMCBPMC2V1SREU	
Ready To Connect Control Box Power MIX, 230 V		SMCBPMC1V3EU				SMCBPMC2V3EU	
Ready To Connect Control Box Power MIX, 230 V with pH & Conductivity Sensors		SMCBPMC1V3SEU				SMCBPMC2V3SEU	
Ready To Connect Control Box Power MIX, 230 V with Data Recorder		SMCBPMC1V3REU				SMCBPMC2V3REU	
Ready To Connect Control Box Power MIX, 230 V with pH&Conductivity Sensors and Data Recorder		SMCBPMC1V3SREU				SMCBPMC2V3SREU	
Motor							
Motor		MXRMTR1				MXRMTR2K	
Motor for China		MXRMTR1CN				MXRMTR2KCN	
Power Cords (Country specific)							
North America, NEMA 5-15 P, 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			

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

Mobius® Power MIX Services

Product Description	Cat. No.
IQOQ Qualification Services	
Mobius® Power MIX 100 L-200 L-500 L qualification including execution, protocol and travel	SSVIQMIX2
Mobius® Power MIX 1000 L-2000 L-2500 L-3000 L qualification including execution, protocol and travel	SSVIQMIX3
System Service Reliance Plans	
Mobius® Power MIX 100 L Essential Service Plan	SSVESPMIX2
Mobius® Power MIX 200 L-500 L Essential Service Plan	SSVESPMIX3
Mobius® Power MIX 1000 L-2000 L-2500 L-3000 L Essential Service Plan	SSVESPMIX4
Mobius® Power MIX 100 L Advanced Coverage Service Plan	SSVESPMIX2 + SSVADCMIX2
Mobius® Power MIX 200 L-500 L Advanced Coverage Service Plan	SSVESPMIX3 + SSVADCMIX3
Mobius® Power MIX 1000 L-2000 L-2500 L-3000 L Advanced Coverage Service Plan	SSVESPMIX4 + SSVADCMIX4
Mobius® Power MIX 100 L Total Coverage Service Plan	SSVESPMIX2 + SSVTOCMIX2
Mobius® Power MIX 200 L-500 L Total Coverage Service Plan	SSVESPMIX3 + SSVTOCMIX3
Mobius® Power MIX 1000 L-2000 L-2500 L-3000 L Total Coverage Service Plan	SSVESPMIX4 + SSVTOCMIX4
Mobius® Power MIX On-site Preventive Maintenance - additional to Service Plans	SSVPRMPMX
Training	
Mobius® Mixing System operator training, 1 day, at one of our M Lab™ Collaboration Centers (including remote capabilities) for a maximum of 4 attendees	PTRMIXSYS
Mobius® Mixing System Virtual Reality training, Essential VR Program	VRPRTMBSMIXESS
Mobius® Mixing System Virtual Reality training, Advanced VR Program	VRPRTMBSMIXADC

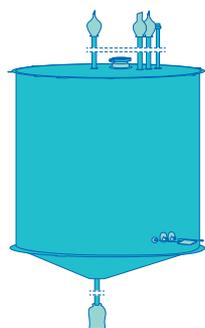
Mobius® Power MIX Single-Use Assemblies

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" + 1/2" 1.5" SterilEnz® TC + Cap	3/4" ID Silicone tubing - 36" + Female Colder MPU + Plug	1" ID Silicone tubing - 36" + 1/2" TC + Cap	4" TC Powder port + Cap		3/4" ID Silicone tubing - 60" + 1/2" SterilEnz® TC + Cap	1" ID Silicone tubing - 60" + 1/2" 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	1	1	2			
		SMXRA0100LS4M	✓		Silver	4	1	1	1	1	1	1	1	1	1	2			
		SMXRL0100LB4M		✓	Bronze	4						1	1	1	1	2			
		SMXRA0100LB4S	✓		Bronze	4	1	1	1	1	1	1	1	1	1	1	1	1	1
		SMXRA0100LS4S	✓		Silver	4	1	1	1	1	1	1	1	1	1	1	1	1	1
	Ultimus®	SMXRA0100LSU2M	✓		Silver	2	1	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	
		SMXRA0100LGU2S	✓		Gold	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	1	2				
		SMXRA0200LS4M	✓		Silver	4	1	1	1	1	1	1	1	1	2				
		SMXRL0200LB4M		✓	Bronze	4						1	1	1	2				
		SMXRA0200LB4S	✓		Bronze	4	1	1	1	1	1	1	1	1	1	1	1	1	
		SMXRA0200LS4S	✓		Silver	4	1	1	1	1	1	1	1	1	1	1	1	1	
	Ultimus®	SMXRA0200LSU2M	✓		Silver	2	1	1	1	1	1	1	1	1	2				
		SMXRA0200LGU2M	✓		Gold	2	1	1	1	1	1	1	1	2					
		SMXRA0200LSU2S	✓		Silver	2	1	1	1	1	1	1	1	1	1	1	1		
		SMXRA0200LGU2S	✓		Gold	2	1	1	1	1	1	1	1	1	1	1	1		
500 L	PureFlex™	SMXRA0500LB2M	✓		Bronze	2		1	1	2	1	1	1	2					
		SMXRA0500LS2M	✓		Silver	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		
		SMXRA0500LS2S	✓		Silver	2		1	1	2	1	1	1	1	1	1	1		
	Ultimus®	SMXRA0500LSU2M	✓		Silver	2		1	1	2	1	1	1	2					
		SMXRA0500LGU2M	✓		Gold	2		1	1	2	1	1	2						
		SMXRA0500LSU2S	✓		Silver	2		1	1	2	1	1	1	1	1	1			
		SMXRA0500LGU2S	✓		Gold	2		1	1	2	1	1	1	1	1	1			

* Compatible with Smart control box only

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" + 1/2" TC + Cap	1" ID Silicone tubing - 120" + 1 1/2" TC + Cap	4" TC Powder port + Cap		1" ID Silicone tubing - 66" + 1/2" TC + Cap	1" ID Silicone tubing - 120" + 1/2" 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*
1000 L	PureFlex™	SMXRA1000LB1M	✓		Bronze	1	1		3		1	1		1		2		
		SMXRA1000LS1M	✓		Silver	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®	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		
		SMXRL2000LB1M		✓	Bronze	1								1		2		
		SMXRA2000LB1S	✓		Bronze	1		1		3	1		1		1		1	1
		SMXRA2000LS1S	✓		Silver	1		1		3	1		1		1		1	1
	Ultimus®	SMXRA2000LSU1M	✓		Silver	1		1		3	1		1		1	2		
		SMXRA2000LGU1M	✓		Gold	1		1		3	1		1		1	2		
		SMXRA2000LSU1S	✓		Silver	1		1		3	1		1		1		1	1
SMXRA2000LGU1S		✓		Gold	1		1		3	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

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