



# Mobius® Power MIX 100, 200 and 500 Single-Use Mixers

High performance mixing technology and ergonomic design features

The **Mobius® Power MIX 100, 200 and 500** combine high performance mixing technology with design features that make it 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. The systems efficiently mix the most challenging buffers, media and biopharmaceutical ingredients.

## Features and benefits:

- Powerful magnetically coupled impeller designed to efficiently mix the most challenging buffer, media and biopharmaceutical ingredients
- Available in both HDPE and jacketed stainless steel for flexibility in biomanufacturing
- Broad working volume, from a minimum volume that is approximately 20% of the working volume (size dependent) with maximum volume of 10% over the working volume, for processing flexibility
- Doors that open to one half the mixer's diameter for easy bag loading
- Stainless steel versions include integrated load cells and temperature sensor
- Two in-process pH measurement options: Probe Port for easy insertion of a re-usable standard PG 13.5 threaded probe or installed, pre-calibrated and pre-sterilized Hamilton OneFerm® Single-Use pH Sensor
- Closed, sterile, and zero deadleg sampling directly from the mixing bag
- Backed by industry-leading technical support and services



## Specifications

Description	100 L	200 L	500 L
<b>Carrier – Plastic</b>			
Materials of construction			
Tank	MDPE	MDPE	MDPE
Stand	HDPE	HDPE	HDPE
Latch	300 series stainless steel	300 series stainless steel	300 series stainless steel
Casters	304 SS with polyurethane wheel	304 SS with polyurethane wheel	304 SS with polyurethane wheel
Dimensions L X W	35.54 x 31.40 in. (902,72 x 797,56 mm)	36.82 x 31.40 in. (935,22 x 797,56 mm)	43.10 x 42.50 in. (1094,74 x 1079,50 mm)
Height	48.86 in (1241,04 mm)	50.08 in (1272,03 mm)	65.59 in ( 1665,99 mm)
Weight	88.4 lb (40.1 kg)	96.6 lb (43.8 kg)	156.0 lb (70.8 kg)
Storage temperature	0–40 °C (non-condensing environment)	0–40 °C (non-condensing environment)	0–40 °C (non-condensing environment)
Operating temperature	4–40 °C (non-condensing environment)	4–40 °C (non-condensing environment)	4–40 °C (non-condensing environment)
<b>Carrier – Stainless Steel</b>			
Materials of construction			
Tank	304 L stainless steel	304 L stainless steel	304 L stainless steel
Stand	304 L stainless steel	304 L stainless steel	304 L stainless steel
Latch	18-8 stainless steel	18-8 stainless steel	18-8 stainless steel
Casters	304 SS with hi-temp phenolic wheel	304 SS with hi-temp phenolic wheel	304 SS with hi-temp phenolic wheel
Dimensions L X W	40.69 x 32 in. (1033,5 x 812,8 mm)	45 x 37 in. (1143 x 939,8 mm)	54.75 x 46.75 in. (1390,7 x 1187,5 mm)
Height	51.59 in (1310,7 mm)	52.81 in (1341,7 mm)	61.56 in (1563,8 mm)
Weight	550 lb (250 kg)	720 lb (327 kg)	920 lb (417 kg)
Fluid volume in jacket (approx.)	1.2 gal (4.5 L)	1.9 gal (7.2 L)	3.5 gal (13.25 L)
Heat transfer area of jacket (approx.)	7.6 sq. ft (.71 sq. m)	12.1 sq. ft (1.1 sq. m)	22.7 sq.ft (2.1 sq. m)
Maximum working pressure of jacket	90 psi (6.2 bar)	90 psi (6.2 bar)	90 psi (6.2 bar)
Stainless Steel Jacketed Mixers ASME U-1 code stamped	standard	standard	standard
Mettler-Toledo SWB505 MultiMount™ Load Cells (qty 3) Load Cell Ingress protection rating	optional IP 68	optional IP 68	optional IP 68
Temperature Sensor JUMO	standard	standard	standard
Storage temperature	0–40 °C (non-condensing environment)	0–40 °C (non-condensing environment)	0–40 °C (non-condensing environment)
Operating temperature	4–60 °C (non-condensing environment)	4–60 °C (non-condensing environment)	4–60 °C (non-condensing environment)

The following components are appropriate for the 100 L, 200 L, and 500 L models, both in stainless steel and HDPE formats

<b>Motor</b>	
Weight lb (kg)	25.3 lb (11.5 kg)
Electrical (max)	0.25 kW
Design speed (max)	375 rpm
	<i>Maximum operating speed has to be validated for each process and is dependent on volume, viscosity, etc.</i>
Cable length	6 ft. (1.83 m)
Ingress protection rating	IP 55
Regulatory information	CSA, CE, UL compliant
<b>Control Box</b>	
Materials of construction	304 L stainless steel
Weight lb (kg)	21 lbs (9.5 kg)
Electrical	120V, 60Hz, 10A or 230V, 50Hz, 10A
Cable length in. (cm)	16 ft. (4.9 m)
Ingress protection rating	IP 55
Regulatory information	CE, UL compliant
<b>Display Box (with temperature sensor and load cell display)</b>	
Materials of construction	304 L stainless steel
Weight	Permanently mounted to carrier
Electrical	120/230 Vac, 50/60Hz, 1A
Cable length in. (cm)	16 ft. (4.9 m)
Ingress protection rating	IP 55
Regulatory information	CE, UL compliant

## Mixer Container Assembly Materials of Construction

Mix container	PureFlex™ or PureFlex™ Plus Film
Adapters	SterilEnz™ LDPE
Luer plugs	Kynar® Polyvinylidene Fluoride
Connectivity	CPC® Polysulfone
Tubing	Silicone
Pinch clamp	PVDF
Impeller	Neodymium magnets encased in polypropylene
Powder port	Polyethylene
TC gasket	Silicone
TC clamp	Nylon
TC end cap	Polypropylene
Cup	HDPE
Probe port	HDPE
O-ring	Silicone
Plug	Polypropylene
Needle-free sample port	HDPE
O-ring	Silicone

## Ordering Information

Description	Cert.	Top Ports					Bottom Port			Needle-free sample port	Probe port	Part Code
		4 in. Powder port	¼ in.	½ in.	¾ in.	1 in.	½ in.	¾ in.	1 in.			
Mobius® Power MIX 100 Assembly, PureFlex™	Bronze	1	1	1	1	1	1	—	—	2	1	MXRA0100B4
Mobius® Power MIX 100 Assembly, PureFlex™ Plus	Bronze	1	1	1	1	1	1	—	—	2	1	MXRA0100BPL4
Mobius® Power MIX 100 Liner, PureFlex™	Bronze	N/A	N/A	N/A	N/A	N/A	1	—	—	2	1	MXRL0100B4
Mobius® Power MIX 100 Liner, PureFlex™ Plus	Bronze	N/A	N/A	N/A	N/A	N/A	1	—	—	2	1	MXRL0100BPL4
Mobius® Power MIX 100 Assembly, PureFlex™	Gold	1	1	1	1	1	1	—	—	2	1	MXRA0100G4
Mobius® Power MIX 100 Assembly, PureFlex™ Plus	Gold	1	1	1	1	1	1	—	—	2	1	MXRA0100GPL4
Mobius® Power MIX 200 Assembly, PureFlex™	Bronze	1	1	1	1	1	—	1	—	2	1	MXRA0200B4
Mobius® Power MIX 200 Assembly, PureFlex™ Plus	Bronze	1	1	1	1	1	—	1	—	2	1	MXRA0200BPL4
Mobius® Power MIX 200 Liner, PureFlex™	Bronze	N/A	N/A	N/A	N/A	N/A	—	1	—	2	1	MXRL0200B4
Mobius® Power MIX 200 Liner, PureFlex™ Plus	Bronze	N/A	N/A	N/A	N/A	N/A	—	1	—	2	1	MXRL0200BPL4
Mobius® Power MIX 200 Assembly, PureFlex™	Gold	1	1	1	1	1	—	1	—	2	1	MXRA0200G4
Mobius® Power MIX 200 Assembly, PureFlex™ Plus	Gold	1	1	1	1	1	—	1	—	2	1	MXRA0200GPL4
Mobius® Power MIX 500 Assembly, PureFlex™	Bronze	1	—	1	1	2	—	—	1	2	1	MXRA0500B2
Mobius® Power MIX 500 Assembly, PureFlex™ Plus	Bronze	1	—	1	1	2	—	—	1	2	1	MXRA0500BPL2
Mobius® Power MIX 500 Liner, PureFlex™	Bronze	N/A	N/A	N/A	N/A	N/A	—	—	1	2	1	MXRL0500B2
Mobius® Power MIX 500 Liner, PureFlex™ Plus	Bronze	N/A	N/A	N/A	N/A	N/A	—	—	1	2	1	MXRL0500BPL2
Mobius® Power MIX 500 Assembly, PureFlex™	Gold	1	—	1	1	2	—	—	1	2	1	MXRA0500G2
Mobius® Power MIX 500 Assembly, PureFlex™ Plus	Gold	1	—	1	1	2	—	—	1	2	1	MXRA0500GPL2

Please note: All 100 L and 200 L mixer flexware are provided as 4 packs. All 500 L mixer flexware are provided as 2 packs.

## Ordering Information

Description	Catalog No.
<b>Mobius® Power MIX 100 Carriers</b>	
100 L plastic carrier	MXR100HDPE
100 L jacketed carrier, temperature sensor, load cells, ASME cert.	MXRJ100TLA
100 L jacketed carrier, temperature sensor, ASME cert.	MXRJ100TA
<b>Mobius® Power MIX 200 Carriers</b>	
200 L plastic carrier	MXR200HDPE
200 L jacketed carrier, temperature sensor, load cells, ASME cert.	MXRJ200TLA
200 L jacketed carrier, temperature sensor, ASME cert.	MXRJ200TA
<b>Mobius® Power MIX 500 Carriers</b>	
500 L plastic carrier	MXR500HDPE
500 L jacketed carrier, temperature sensor, load cells, ASME cert.	MXRJ500TLA
500 L jacketed carrier, temperature sensor, ASME cert.	MXRJ500TA
<b>Mobius® Power MIX Electronics</b>	
Motor	MXRMTR1
Control box, 120V	MXRCTRLB1
Control box, 230V	MXRCTRLB2
Electrical power cords (country specific)	
China, 250V (16A)	MXRPCCHINA
North America, 125V (10A)	MXRPCNA125
Europe, 250V (10A)	MXRPCEU
Argentina, Australia, Colombia, New Zealand, Paraguay, Uruguay	MXRPCAACNPU
Denmark	MXRPCDN
Israel	MXRPCIS
Chile, Ethiopia, Italy, 250V (10A)	MXRPCCEI
Bangladesh, Burma, Pakistan, South Africa, Sri Lanka	MXRPCBBPSS
Switzerland	MXRPCSZ
UK, Ireland	MXRPCUK
Please note: For the Stainless Steel Carriers, two identical power cords must be purchased - one power cord for the removable Control Box and one power cord for the Display Box that is mounted to the base of the unit.	
<b>Spare Parts</b>	
Quick-connect coupling, male, ¾ inch NPT	MIXSST0109442
Quick-connect coupling, female, ¾ inch NPT	MIXSST0109441

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