

Vibratory mixing pilot units for rental and purchase





Equipment options

The FUNDAMIX® is a sophisticated mixing device where the mixing effect is generated by high frequency vibration created by an electromagnetic drive. The vibration is transferred through the length of a shaft to a perforated mixing plate with conical bores. The oscillation of the plate causes the liquid to be pumped through the conical holes, creating a flow according to the Bernoulli effect.

Lab scale tests can be meant to investigate a few basic parameters (homogenization efficiency, possibility to achieve a shear-free mixing, capability of suspending settling or floating solids, etc.) or can simulate a whole process (crystallization, fermentation, heat transfer, pH control). We can provide laboratory sets and accessories for special applications or complete customized systems based on the exact client's requirements for rent or purchase.



FUN	IDAN	/IX ®	LAB	SET
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881533.00

This lab set is the perfect solution for lab scale experiments in order to analyse a mixing process with the ability to accurately upscale to our larger devices for production. The lab set includes everything you need to analyse numerous mixing processes, including adjustable mixing plates, mixing shafts (with and without gas insertion) and a selection of atmospheric membranes.

*Upon request the lab set can be tailored to meet your mixing needs.

FUNDAMIX®	Size 1	
Mixing Volume (It)	1-10	
Pressure	Atmospheric	
Voltage (V), Frequency (Hz)	110-220, 50-60	
Vibration Frequency (Hz)	Approx. 100	
Max. Amplitude (mm)	3 - 3.5	
Mixing plates diameter (mm)	23, 45, 54, 65	
Mixing plates material	SS 316L	
Shaft length (mm)	400 (with and without gas insertion)	
Amplitude Controller	AC 1-3	
Note	For special cases, disk in PVDF or PEEK can be provided	



FUNDAMIX® DEMO SET	

881500.00

Like the lab set the FUNDAMIX® Demo Set is an all-inone solution to analyse mixing processes. The supplied 4L rounded wide neck flask provides ideal flow paths to guickly homogenise a solution, the modular design allows for numerous mixing configurations to be examined

FUNDAMIX®	Size 1
Mixing Volume (It)	4 (Rounded wide neck flask)
Membrane sealing unit	Atmospheric
Membrane material	Silicone / Viton / EPDM
Power Supply Voltage (V), Frequency (Hz)	110-220, 50-60
Vibration Frequency (Hz)	Approx. 100
Max. Amplitude (mm)	3 - 3.5
Mixing plate diameter (mm)	65
Mixing plate material	SS 316L
Shaft length (mm)	400
Controller	AC 1-3



monitoring.

FUNDAMIX®

Mixing Volu

Membrane

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Vibration Fr

Max. Amplit

Mixing plate (mm)

Mixing plate

Shaft lengtl

Controller

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FUNDAMIX® Power Sup Frequency

Sensor (Am measureme

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FUNDAMIX® GLASS / STAINLESS STEEL REACTOR

For a ready to use laboratory or small scale production system the $\mathsf{FUNDAMIX}^{\scriptscriptstyle{(\!\!0\!)}}$ size 1 can be supplied with a broad range of glass reactors to meet your process needs, combining the assembly with our range of control systems allows full versatility with optional amplitude regulating/

The key components have been designed in accordance with the food and drug industry sterile design guidelines offering a wide variety of materials to suit most application needs.

Complete with full documentation including material and FDA certificates for the components in contact with the product.

0	Size 1		
ıme (lt)	0.5 - 20 (with or without heating jacket)		
sealing unit	Atmospheric / Vacuum		
material	EPDM/PTFE / Silicone / Neoprene		
ply Voltage (V), (Hz)	110-220, 50-60		
requency (Hz)	Approx. 100		
tude (mm)	3 - 3.5		
e diameter	23, 45, 54, 65		
e material	SS 316L*		
h (mm)	400 / 500 / 600 (with or without gas insertion)		
	FUNDAMIX® Control Cabinet / AC 1-3		
	Complete with operating manual, material certificates, FDA certificates.		
	The design can be tailor made upon request.		
	*Upon request, mixing devices can be		

FUNDAMIX® CONTROL CABINET

The FUNDAMIX® Control Cabinet combined with the optional accelerometer enables full control of the mixing system providing a number of functions directly from the front control panel. The amplitude can be set manually or maintain a defined set point using the automatic mode, optimisation of the system is possible by means of the frequency functions that allow the resonance frequency to be reached resulting in optimal mixing performance.

supplied in PVDF or PEEK.

Parameter adjustment from an external PLC control is also possible using the available connections.

(E)	Size 1 / 2 / 3 / 3+
ply Voltage (V), (Hz)	110-220, 50-60
nplitude ent)	Accelerometer
	The control cabinet offer the following functions:
	 Manual and automated amplitude control Manual and automated frequency adjustment

- Amplitude alarm settings
- Amplitude calibration
- PLC Mode (for external connection)

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