

# Magnetic Stirrers



1-MLH



1-ML



1-AML



10-MLH Plus



5-MLH Plus



MS 800 Plus

EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

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**1-MLH**



**1-ML**



**1-AML**

## ►► **Magnetic Stirrers**

"ML" series of Magnetic Stirrers with stainless steel top housing are most compact models. Permanent Magnet DC (PMDC) motor gives high torque even at lower speeds and maintains speed stability despite viscosity or volume changes. Different models available for all types of laboratory stirring applications up to 10 liters. Accurate stepless speed control with digital display allows smooth variation up to 1200 rpm.

"MLH" series Magnetic Stirrers with hot plate are similar to the ML series of magnetic stirrers but have additional stainless steel hot plate. Heat energy is controlled by energy regulator.

## ►► **Rotamantles**

These are specially designed to meet laboratory requirement of convenient stirring in flask with simultaneous uniform heating by heating mantles. These have two tier constructions with the upper compartment consisting of heating element. Accurate stepless speed control allows smooth variation up to 1200 rpm. Heating energy is controlled by energy regulator.

## ►► **Salient Features:**

- PMDC motor for higher torque even at low speeds
- Better speed regulation even with small volume & low speeds
- Accurate stepless speed control maintains excellent speed stability
- Digital Speed Indicator for display of stirring speed
- Totally enclosed unit
- Designed for use even in corrosive atmosphere

## ►► Technical Parameters :

Models	Stirring Capacity	Heating Capacity	External Dimensions	Stirring Paddle (PTFE Coated)	
	Ltrs.	Watts	(WxDxH) mm	Model	Ø x length
			Stirrers without Hotplate		
MS-500	500 ml	-	105 x 135 x 70	0-18A	7 x 15mm
Stirrers without Hotplate (with Digital Speed Indicator)					
1-ML	1	-	150 x 220 x 150	0-19	9 x 25nm
2-ML	2	-	150 x 220 x 150	0-19A	9 x 35mm
5-ML	5	-	180 x 220 x 150	0-20A	13 x 50mm
10-ML DX	10	-	250 x 250 x 205	0-20A	13 x 50mm
Stirrers with Hotplate (with Digital Speed Indicator)					
1-MLH	1	150	200 x 225 x 185	0-19	9 x 25nm
2-MLH	2	300	200 x 225 x 185	0-19A	9 x 35mm
5-MLH	5	500	200 x 225 x 185	0-20A	13 x 50mm
Rotamantles					
1-AML	1	300	210 x 210 x 205	0-19	9 x 25nm
2-AML	2	400	260 x 260 x 240	0-19A	9 x 35nm
5-AML	5	500	300 x 300 x 260	0-20A	13 x 50mm

Supply: 220-240 Volts 50 Hz Single Phase.



**10-MLH Plus**



**5-MLH Plus**

v presents the next generation of magnetic stirrers with new stir technology. These are available in both hotplate & without hotplate versions.

## ►► Salient Features :

- Speeds range 100 -1500 rpm
- Stainless Steel Hot Plate model for temperatures up to 340°C
- Ceramic Hot Plate model for temperatures up to 550°C
- Easy-to-read backlit LCD for display of set & actual parameters
- Monitoring of set & actual temperature / speed
- High accuracy of temperature control with embedded dual sensors
- Advanced Stirrers with microprocessor technology
- Constant speed even with change of load / Voltage
- Maintenance free brushless motor
- Scratch proof & excellent chemical resistance
- External temperature probe (PT-1000) for control of fluid temperature
- Last parameter recall, ideal for repetitive processes
- Unique safety temperature control system
- Settable safe temperature limit to avoid overheating
- Residual Temperature warning when unit is switched off for operator safety
- Protection class acc. to DIN / EN60529

## ►► Technical Parameters :

Model	5-ML Plus	5-MLH Plus	10-MLH Plus	20-ML Plus
Power [W]	50	550	1050	50
Max. stirring quantity (Water)(Litersl)	5	5	10	20
Stirring Paddle (PTFE coated)	Q-19A (9 x 35mm)	Q-19A (9 x 35mm)	Q-20A (13 x 50mm)	Q-20A (13 x 50mm)
Motor rating input [W]	18	18	18	18
Motor rating output [W]	10	10	10	10
Speed range [rpm]	100-1500	100-1500	100-1500	100-1500
Speed / Temperature display	LCD	LCD	LCD	LCD
Speed display resolution [rpm]	1	1	1	1
Top Plate Material	Stainless Steel	Stainless Steel	Ceramic Glass	Stainless Steel
Dimension of Top Plate [mm]	(P157	(P157	184 x 184	300 x 350
Heating power [W]	-	500	1000	-
Temperature Range	-	Up to 340°C	Up to 550°C	-
Control accuracy of heating temperature	-	1°C	1°C	-
Residual Heating Warning Alarm	-	Above 50°C	Above 50°C	-
Control accuracy of heating temperature with PT-1000	-	0.2°C	0.2°C	-
External Temperature sensor	-	PT-1000	PT-1000	-
Dimensions (WxDxH) (mm)	342x210x115	342x210x115	360x215x112	300 x 350 x 100
Protection class acc. to DIN EN60529	IP 42	IP 42	IP 21	-



**MS 800 Plus**

Ultra - flat compact magnetic stirrer, guaranteed with modern magnet coil technology. Wear - free with no moving parts. To ensure better mixing, the lab disc can reverse direction of rotation automatically every 30 seconds

- No moving parts - truly maintenance free
- Low aspect ratio (just 12 mm thick)
- Software driven gradual acceleration
- Adjustable speed (15 to 1500 RPM) with digital display
- Microprocessor controlled with last run memory feature
- Stirring cap. 800 ml - set up place of 100 mm Pulse mode - reverses the direction every 30 secs for proper mixing
- Universal power supply - small wall mount adaptor
- IP 65 compliant design (Water spill resistant)
- Corrosion resistant SS top surface to fight harsh chemicals
- Recommended Stir bar length 25 mm
- Supplied with 1 (one) high strength stir bar

Specifications	MS-800 Plus
Max RPM	1500 RPM
Speed Setting	15 to 1500 RPM (at every 50 RPM)
Set - up plate material	Stainless Steel
Speed indicator	Yes
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity RH	80
Load capacity (Water)	800 ml
Recommended Stir bar length	25 mm
Pulse function	Yes
Sync Mode	No
Last run memory	Yes
Dimensions (W X D X H)	120 x 164 x 12 mm
Weight	400 gm
Protection Class	IP 65 compliant design (Water spill resistant)



## Regulatory compliances



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3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

## Reach us @



 **Analytical**®  
Technologies Limited

HPLC Solutions   MultipleLabs   Analytical Bio-Med   Analytical Distributors   Analytical Foundation (Trust)

**Corporate & Regd. Office:**  
Analytical House, # E67 & E68,  
Ravi Park, Vasna Road, Baroda,  
Gujarat 390 015. INDIA

T: +91 265 2253620  
+91 265 2252839  
+91 265 2252370  
F: +91 265 2254395

E: [info@hplctechnologies.com](mailto:info@hplctechnologies.com)  
[info@multiplelabs.com](mailto:info@multiplelabs.com)  
[info@analyticalgroup.net](mailto:info@analyticalgroup.net)  
[info@analyticalbiomed.com](mailto:info@analyticalbiomed.com)

W. [www.analyticalgroup.net](http://www.analyticalgroup.net)  
[www.hplctechnologies.com](http://www.hplctechnologies.com)  
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