

Vortex Mixer

VM-1

Instructions for use



Thank you for purchasing this Norlab Vortex Mixer from Amtech Design Ltd. Please read the following instructions carefully in order to get the best performance from the equipment.

Safety

The VM-1 has been tested to meet the following safety and Laboratory standards.

- 2004/108/EC EMC Directive
- ❖ 2006/95/EC LVD Directive
- EN61010-1:2010
- ❖ EN61010-2-051
- EN61326-1:2006

The power supply is certified to international and national standards (See certification marks on the unit).

Precautions before first operating the Vortex Mixer

- If this product has been transported in cold or humid conditions, condensation may form inside it. If that has happened allow time for this to evaporate before using. This unit could be damaged if switched on before the condensation has evaporated.
- Use the mixer only with the power supply provided, which has an output of 12VDC
 2A.
- This mixer is for indoor use only and should be used in a well-ventilated area.
- Ensure that the mains switch and power supply plug are easily accessible during use.

Precautions during and after operation

- . Do not stop the platform cup by hand during use.
- Do not mix flammable liquids or use the equipment in hazardous atmospheres.
- Never move or carry the equipment unless it has been powered down due to ESD sensitivity issues.
- Mechanical energy can lead to breakage of glass vessels. Use with care.
- Clean the equipment with a damp cloth using water only.
- Disconnect from the mains supply after using the equipment.
- The protection offered by this equipment may be impaired if not used in the manner specified in this manual.
- In the case of a mains interrupting, a fault or mechanical failure the unit will NOT continue to operate on removal of fault.

Operation

- Position the equipment on a firm level surface, ensuring that the mains socket is within easy reach.
- Plug the power supply into the mains socket and the output connector into the DC socket on the back of the unit. See Fig.1



- Touch Mode Ensure that the Mode switch is set to 'Touch' and press the base of the vessel firmly down onto the Platform cup to mix the contents. Only light pressure is required to activate the mixing. Adjust the speed by turning the Speed control clockwise to increase or anti clockwise to decrease. See Fig.2
- Continuous Mode Ensure the Mode switch is set to 'Continuous'. The Platform cup will automatically rotate. Adjust the speed as before. See Fig. 2
- To stop mixing: —
 When In Touch mode Lift the vessel off the Platform cup.
 When in Continuous mode Turn the unit back to 'Touch' mode and lift the vessel off the Platform cup.
- To turn the unit off, switch off at the mains.

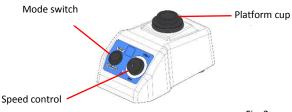


Fig. 2

Specifications

The VM-1 Vortex mixer is designed for use in an ambient temperature range between +5°C to +40°C and maximum relative humidity of 80%.

Speed range	100-2500rpm
Orbit	3.5mm
Power Supply	
Input	100-240V AC, 50-60Hz
Output	12V DC, 2A
Dimensions	166x100x84mm
Weight	0.6kg
Construction	
Body	Polypropylene
Platform cup	Polypropylene
Base	Stainless steel
Speed control knob	Polypropylene
Mode switch	Nylon
Rubber Gater	Silicone

Maintenance

No routine maintenance is required but regular cleaning is recommended – see page 3.

Guarantee

When used indoors in laboratory conditions and in accordance with these instructions the VM-1 is guaranteed for TWO YEARS against faulty materials or workmanship.

Service

Equipment requiring repair should be sent to our service department in the UK.

AMTech Design Ltd

1 Bluestone Avenue

Stoke on Trent Staffordshire

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Description of equipment	Vortex Mixer
Model Number	VM-1
Supplier	AMTech Design I
	1 Bluestone Aver
	Stoke on Trent
	Staffordshire
	ST6 7EE
	t: 01782 819596

Ltd

This product complies with the requirements of the EU directives and applied standards below.

2004/108/EC 2006/95/EC **EMC Directive** -VD Directive Directives:

Standards:-

Electrical equipment for measurement, control and laboratory use – EMC EN 61326-1:2006

requirements.

Safety requirements for electrical equipment Part 1: General requirements EN61010-1:2010

for measurement, control and laboratory use. Part 1: General requirements Part 2-051: Particular requirements for laboratory equipment for mixing and stirring.

Signed

standards

I confirm that this equipment conforms to the above directives and

A.Mellor, Director, Amtech Design Ltd.