

# **VEVOR<sup>®</sup>**

**TOUGH TOOLS, HALF PRICE**

Technical Support and E-Warranty Certificate <https://www.vevor.com/support>

## **MAGNETIC STIRRERS**

### **USER MANUAL**

**MODEL NO.: 79-1, 85-2, SH-2**

We continue to be committed to provide you tools with competitive price.

"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

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## Magnetic Stirrers

MODEL NO.: 79-1, 85-2, SH-2



### NEED HELP? CONTACT US!




Have product questions? Need technical support? Please feel free to contact us:

**Technical Support and E-Warranty Certificate**  
**[www.vevor.com/support](http://www.vevor.com/support)**

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

 **WARNING:**

**Please read this manual carefully before using the product. Failure to do so may result in serious injury.**

	<p><b>Warning!</b></p> <ul style="list-style-type: none"><li>● Read the operating instructions carefully before use.</li><li>● Ensure that only trained staff works with the instrument.</li></ul>
	<p><b>Risk of burn!</b></p> <ul style="list-style-type: none"><li>● Caution when touching the housing parts and the hotplate which can reach a temperature of exceeding 80 °C.</li><li>● Pay attention to the residual heat after switching off.</li></ul>
	<p><b>Protective ground contact !</b></p> <ul style="list-style-type: none"><li>● Make sure that socket is grounded (protective ground contact) before use.</li></ul>

- When operating wear personal safety protection to avoid the risk of:
  - Splashing and evaporation of liquids
  - Release of toxic or combustible gases
- Set up the instrument in a spacious area on a stable, clean, non-slip, dry and fireproof surface. Do not operate the instrument in explosive atmospheres, with hazardous substances or around water.
- Gradually increase the speed, reduce the speed if:
  - Stirring bar breaks away due to high speed
  - The instrument is not running smoothly, or the container is not centered on the plate
- Temperature must always be set to at least 50°C lower than the flash point of the media used.
- Be aware of hazards due to:
  - Flammable materials or media with a low boiling temperature
  - Overfilling of media
  - Unsafe container
- Process pathogenic materials only in closed vessels.
  - If the case of the stirrer bar is PTFE, please note:

- Elemental fluorine, three fluoride and alkali metals will corrode the PTFE and Halogen alkanes making it expand at room temperature.
- Molten alkali, alkaline earth metals or their solution, as well as the powder in the second and third ethnic of the Periodic Table of Elements will have a chemical reaction with PTFE when temperature reaches 300 ~ 400°C .
- Check the instrument and accessories prior to each use. Do not use damaged components. Safe operation is only guaranteed with the accessories listed in the “Accessories” section. Accessories must be securely attached to the device and must be removed when not in use. Always disconnect the power before fitting accessories.
- When the external temperature sensor is needed, the tip of the measuring sensor must be at least 5-10 mm from vessel bottom and wall.
- The instrument can only be fully disconnected from the main power supply by turning off the main or disconnecting the plug.
- The voltage stated on the label must correspond to the main power supply.
- Ensure that the main power supply cable does not touch the hotplate. Do not cover the device.
- The instrument must only be operated by experts.

Keep away from high magnetic fields.

## **SAVE THESE INSTRUCTIONS**

### **Proper use**

The instrument is designed for mixing and/or heating liquids in schools, laboratories or factories

- Observe the minimum distances between multiple units, and distances

to the rear wall and above the assembly (min. 100 mm).

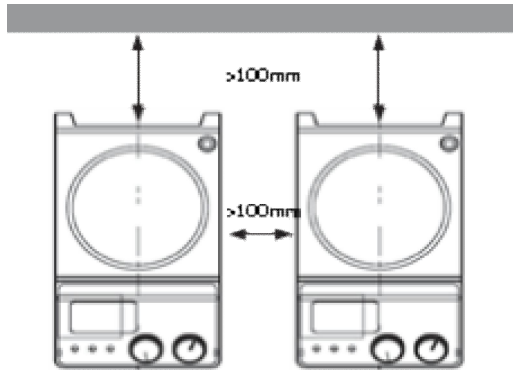


Figure 1

This device is not suitable for use in residential areas or other constraints mentioned in Safety Instructions.

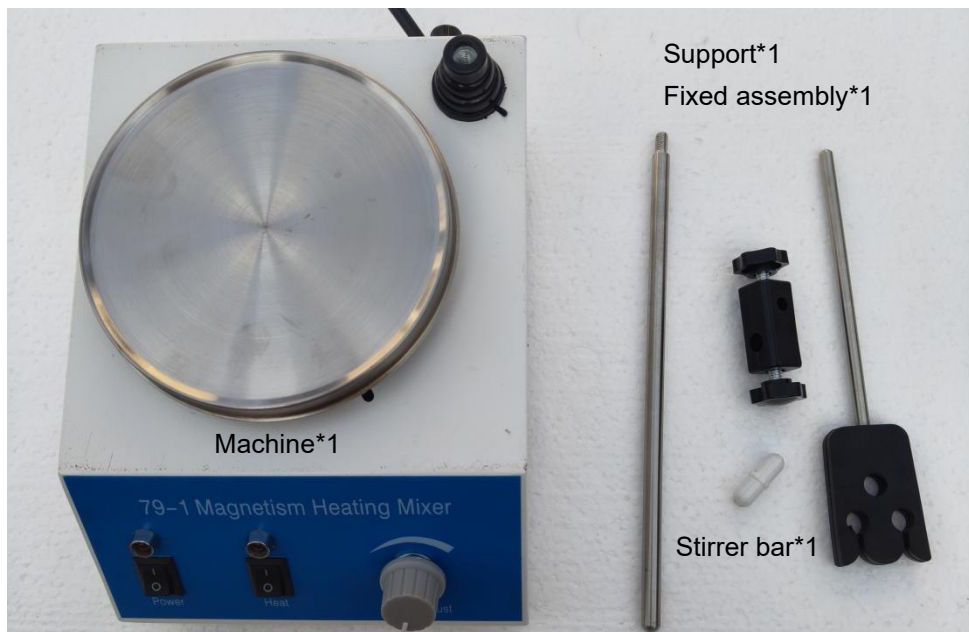
## TECHNICAL SPECIFICATIONS

Model	79-1	85-2	SH-2
Voltage [VAC]	120/ 220~240	120/ 220~240	120/ 220~240
Frequency [Hz]	50/60	50/60	50/60
Power [W]	250	250	180
Maximum stirring capacity [mL]	1000	1000	2000
Maximum heating temperature [°C]	70	99.9	80
Product Dimensions (L*W*H)[mm]	160*215*320	230*160*335	120*205*330
Packing Size (L*W*H) [mm]	280*220*210	280*220*210	270*175*180
Net Weight [kg]	1.5	1.8	1.8
Gross Weight [kg]	1.8	2.1	2.1

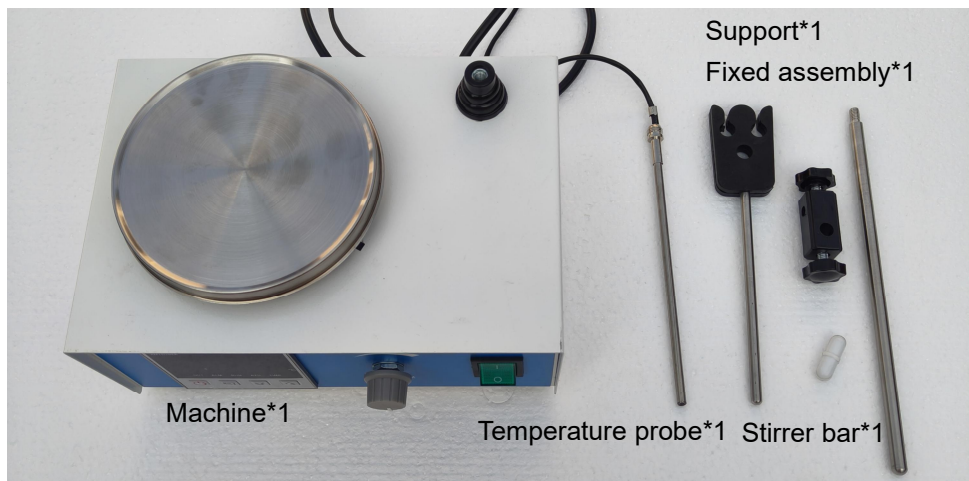
\*Products such as specifications, appearance, and design are subject to modification without prior notice.

# PACKAGE CONTENTS

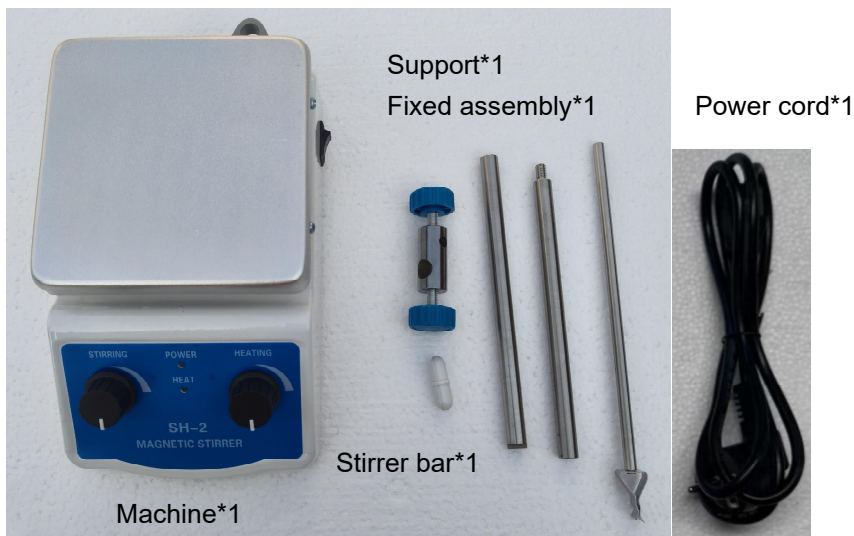
MODEL NO.: 79-1



MODEL NO.: 85-2

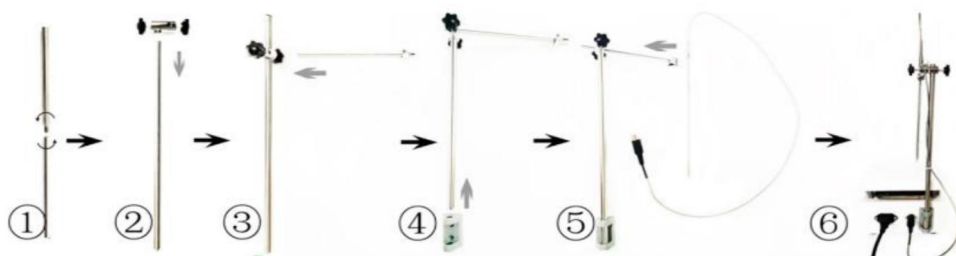


## MODEL NO.: SH-2



## ASSEMBLY STEPS

### Support frame and sensor installation steps



1. Connect the upright post of the support frame (screw connection, please do not plug it directly) ;
2. Install the crossbar fixer of the support frame;
3. install the support rail;

4. Install the fixing buckle between the support frame and the agitator body;

5. Install the stirring rod;

Fix the support frame and the agitator main body, and connect the agitator bar power supply according to the socket of the main body.

**Precautions for installation:**

1. This product is a precision experimental instrument. Please operate according to the interface during installation.

2. Please install in strict accordance with the installation steps;

3. After installation, please check the verticality of the support frame and the level of the support rail.

4. Please ensure that all parts are tightly connected without looseness;

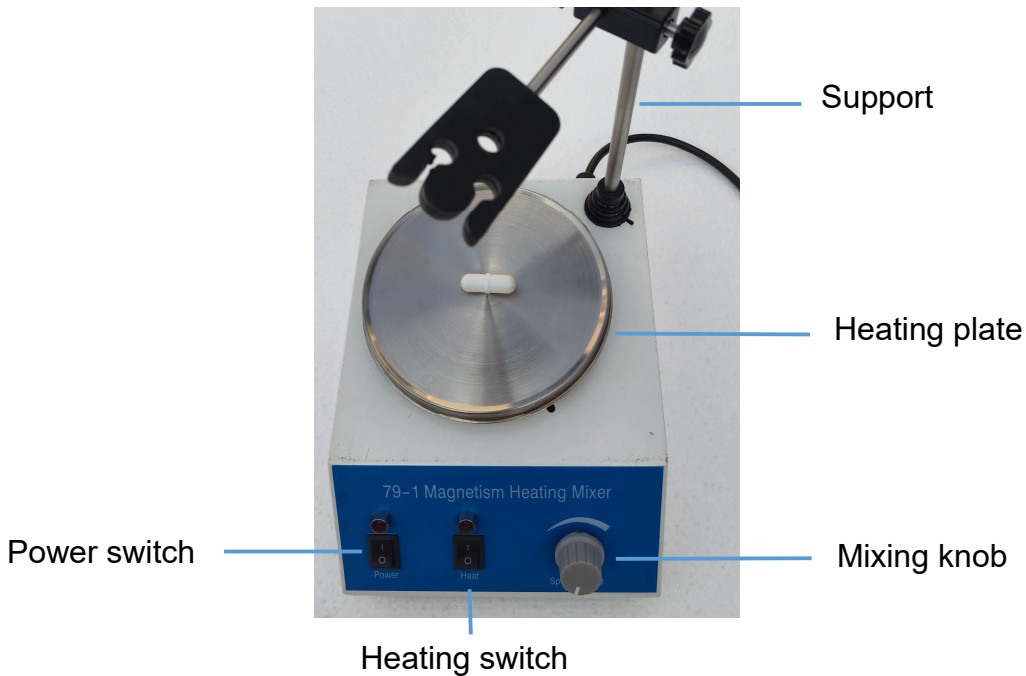
If you find that the connection part is loose during use, please stop using it immediately and reinstall it to avoid causing parts and experiments.

The instrument is damaged.

## **PRODUCT FUNCTIONS**

**MODEL NO.: 79-1**





### Operation mode:

1. Place the machine on a horizontal desktop, and then connect the power cord to the power outlet on the back of the base.
2. Plug the other end of the power cord into a standard socket.
3. Pay attention to the Power switch. The line (-) indicates on, and (o) indicates OFF.

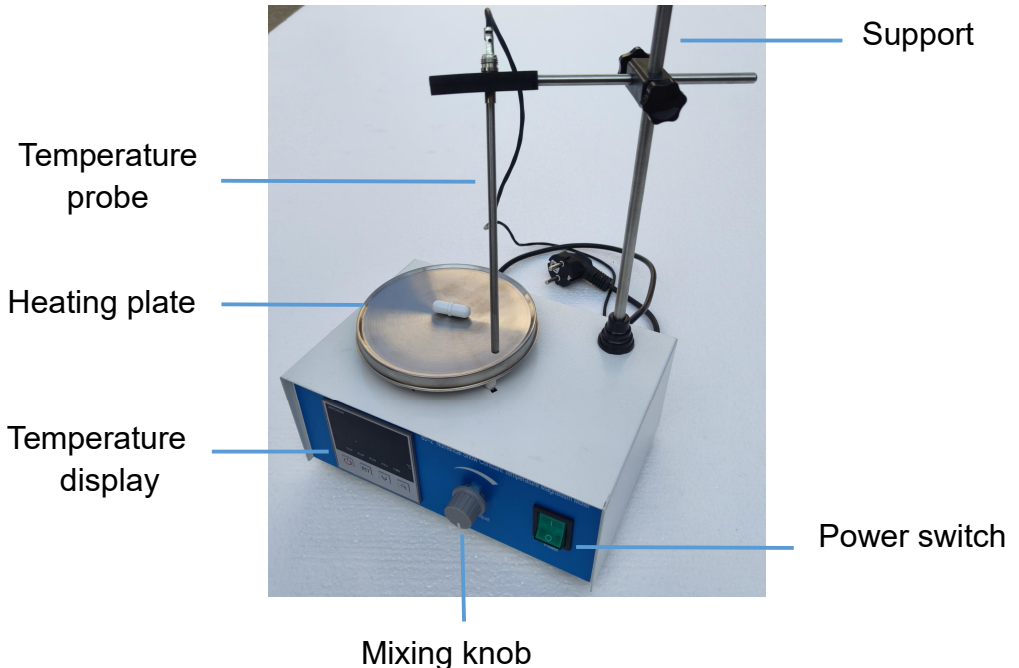
4. Place the machine stably, put the beaker with the liquid medicine in the center of the working plate, put an appropriate rotor in the beaker and make it in the center of the beaker, turn on the power supply. Press the "Heat" button, the line (-) indicates on, and (o) indicates OFF, to start the machine to run and Heat up. Similarly, press the "Speed Adjust" knob once, and the machine will start to Speed Adjust, and adjust it to the required speed by rotating the "Speed Adjust" knob.

5. If you need to measure the temperature of the liquid in the beaker, you can connect the bracket, insert the sensor lead plug into the back of the machine, and then insert the sensor into the liquid. At this time, the temperature displayed by the instrument is the liquid temperature.

### Precautions for use

1. should avoid using in a humid environment.
2. When in use, the liquid medicine in the beaker should not be too full to prevent it from overflowing when stirring.
3. Don't touch the oven plate during use to avoid burns.

### MODEL NO.: 85-2





### Operation mode:

6. Place the machine on a horizontal desktop, and then connect the power cord to the power outlet on the back of the base.
7. Plug the other end of the power cord into a standard socket.
8. Pay attention to the power switch on the right side of the base. The line (-) indicates on, and (o) indicates OFF.

Place the machine stably, put the beaker with the liquid medicine in the center of the working plate, put an appropriate rotor in the beaker and make it in the center of the beaker, turn on the power supply, and the upper row of the instrument displays the temperature of the furnace plate (if the sensor is connected externally, the temperature of the external sensor is displayed), and the lower row displays "Off". Similarly, press the "Speed Adjust" knob once, and the machine will start to Speed Adjust, and adjust it to the required speed by rotating the "Speed Adjust" knob.

Sc: Press and hold SET button for 3 seconds to enter specification adjusting mode, SC is the error calibration value which is the difference between the set and actual temperature, and is set to 0.0. If you want to adjust it, please press the SET button and the numbers will flash, you can adjust the value between -9.9 to 9.0 using the up or down buttons.

E: press SET button to enter the next specification, it will display E, which is the critical value before the magnetic stirrer enters into slow heating speed (set to 0.5), it requires the same steps to adjust it as the SC

P: press SET button again to enter the next specification setting, it will display P, which equals the set value minus (10/P). For example, if it is set to 50

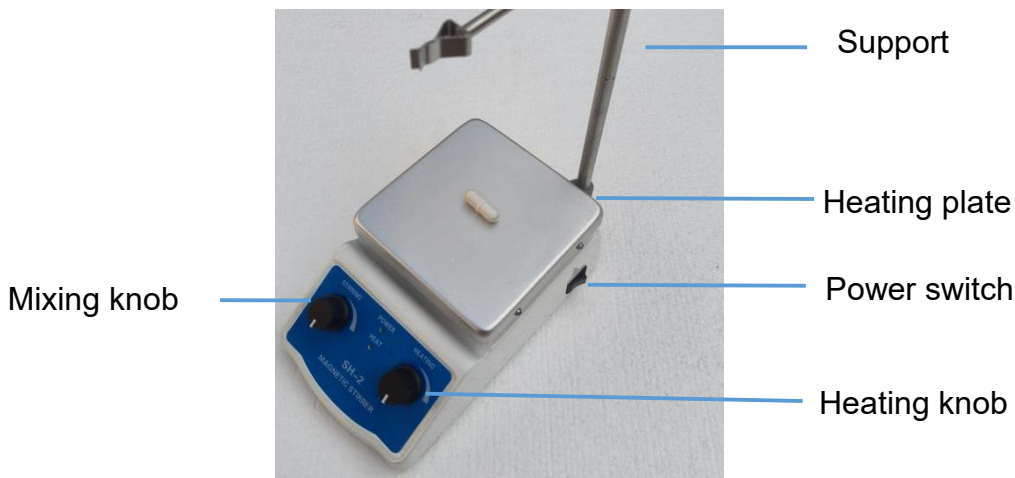
degrees when P equals 10, then it means it will start to control the heating speed once it reaches 49 degrees, when P equals 4, then it will start to control the heating speed once it reaches 47.5 degrees. Please decrease P value if the temperature is in huge disparity, please increase P value if the temperature is rising too slowly or just cannot reach your desired temperature.

9. If you need to measure the temperature of the liquid in the beaker, you can connect the bracket, insert the sensor lead plug into the back of the machine, and then insert the sensor into the liquid. At this time, the temperature displayed by the instrument is the liquid temperature.

### **Precautions for use**

1. should avoid using in a humid environment.
2. When in use, the liquid medicine in the beaker should not be too full to prevent it from overflowing when stirring.
3. Don't touch the oven plate during use to avoid burns.

### **MODEL NO.: SH-2**





### **Use operation mode**

1. Place the machine stably, and put the beaker with the liquid medicine in the center of the working plate.
2. put the appropriate rotor in the beaker, and make it in the center of the beaker.
3. Turn on the power supply, and adjust the temperature by turning the opening of the "HEATING" knob. When HEATING, the "HEAT" indicator lights up, and the heating power is adjusted by the "heat" knob. Adjust the STIRRING speed by turning the opening of the "STIR" knob. When STIRRING, the "stir" indicator light is on, and the stirring speed is adjusted by the "stir" knob.

Measure the temperature of the liquid in the beaker with a thermometer fixed by a bracket.



This product is subject to the provision of European Directive 2012/19/EC. The symbol showing a wheeled bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices.

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