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Manual

Magnetic Stirrer

PCE-MSR 300



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Contents

| | | |
|----------|--------------------------------------|----------|
| 1 | Introduction | 3 |
| 2 | Safety notes | 3 |
| 3 | Specification | 4 |
| 4 | Unpacking | 5 |
| 5 | Stirring the liquids | 5 |
| 6 | Heating the liquids | 6 |
| 7 | Temperature Calibration | 7 |
| 8 | Troubleshooting | 7 |
| 9 | Contact | 8 |
| 9.1 | PCE Instruments UK | 8 |
| 9.2 | PCE Americas | 8 |

1 Introduction

Thank you for purchasing a PCE-MSR 300 from PCE Instruments.

Magnetic PCE-MSR 300 has a large display and ability to set temperature, stirring speed and time. The adjusted data can be read directly on the display of the magnetic stirrer. The maximum stirring capacity in this magnetic stirrer is 2 liters. The heating plate of the magnetic PCE-MSR 300 can be heated to a temperature of 300 ° C. The temperature sensor located in the delivery of the liquid determines the temperature of the preset temperature and is monitored by the magnetic stirrer. With the simple geometry of the magnetic stir bar, the magnetic PCE-MSR 300 also considerably facilitates purification and cleansing. To get the small magnets out of the containers, one uses a long, plastic coated magnetic rod.

2 Safety notes

Please read this manual carefully and completely before you use the device for the first time. The device may only be used by qualified personnel and repaired by PCE Instruments personnel. There is no warranty of damages or injuries caused by non-observance of the manual.

- Caution: The heating panel reaches temperatures up to 300 °C
- The device may only be used in approved temperature range
- The opening of the case should only be done by qualified personnel of the PCE Instruments.
- The instrument should never be placed with the user interface (e.g. keyboard side on a table)
- You should not make technical changes on the device
- The appliance should only be cleaned with a damp cloth / use only pH-neutral cleaner

This user's handbook is published from PCE Instruments without any guarantee.

We expressly point to our general guarantee terms, they can be found in our general terms of business.

If you have any questions please contact PCE Instruments.

3 Specification

| | |
|-------------------------|----------------------------|
| Maximum Stirring Volume | 2 litre (H ₂ O) |
| Stirring Speed | 0 ... 1250rpm |
| Temperature Range | Room Temperature to 300 °C |
| Timer Range | 0 ... 999 minutes |
| Top Plate Size | 135(L)× 135(W)mm |
| Power Requirements | AC 220V/50Hz |
| Dimensions | 230(L)× 180(W)× 120(H)mm |
| Weight | 2.2kg |

4 Unpacking

The following list describes the standard accessories of stirrer. After the unpacking, please check all accessories are complete. If any are damaged or missing, please contact nearest distributor.



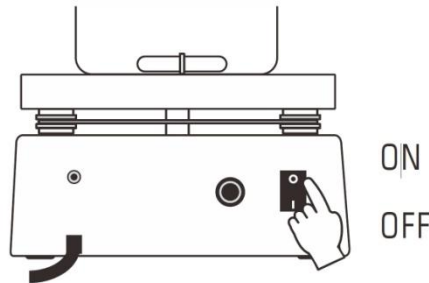
Temperature Probe (Only for MS300 and 400 magnetic stirrer)



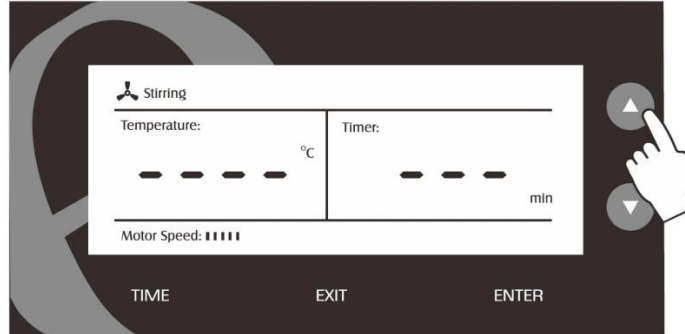
Stir Bar

5 Stirring the liquids

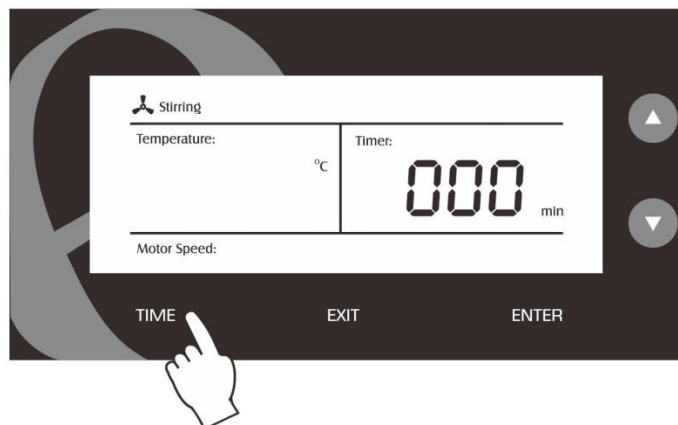
1. Before plugging the plug into the power outlet, ensure that local mains power voltage matches the stirrer requirements.



2. Place the stir bar into the container, press the power switch to ON position, the display will light up.



3. Press ▲ or ▼ key to set the desired stirring speed, the speed bar on screen will show current run status.



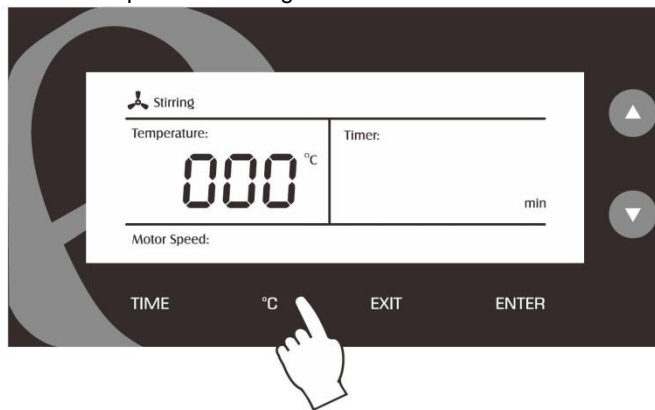
If the stirrer does not working, please move the container slightly, ensure that stir bar is in container's center.

6 Heating the liquids

1. Insert the connector of temperature probe into the corresponding connector socket on the rear panel.



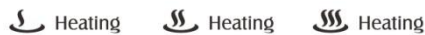
2. Place the temperature probe into the liquid, the display shows temperature value.
3. Press °C key to enter the temperature setting mode.



4. Press ▲ or ▼ key to set the target temperature.
5. Press ENTER key to confirm, the stirrer is now begin heating.

NOTE:

- Please ensure that temperature probe is connected to socket, the hotplate will not heat if the probe is not attached.
- While heating a liquid the temperature probe must be immersed, otherwise the hotplate will heat continuously and will go into a fault condition.
- During the heating mode, the "Heating" indicator will successively show as follows:



- When the liquid reached the setting temperature, the "heating" indicator will flashing continuously.



EXIT THE HEATING MODE:

1. Press EXIT key in the heating mode, the stirrer will stop heating immediately.

7 Temperature Calibration

During the heating, if the temperature reading displayed differs from that of an accurate thermometer, please follow the steps below to calibrate the stirrer.

1. Switch off the stirrer.
2. Press and hold the ▲ and ▼ key for 3 seconds, then switch on the stirrer. The display will show current temperature value.
3. Press ▲ or ▼ key to set the temperature value, press ENTER key to confirm. Calibration is completed.

8 Troubleshooting

| Failure | Cause |
|---------------------------|--|
| Stir bar does not working | Check, if the screw under the top plate is lost. Container is not in the centre of top plate. |
| Can not heating | The temperature probe is not connected to stirrer. Heater has damaged. |

9 Contact

If you have any questions about our range of products or measuring instruments please contact PCE Instruments.

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