

TISCH

Scientific



Magnetic Stirrer Hotplate



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1. What's in the box?

One of the units below:



Besides the hotplate, you should have also received:



① Power cord



③ Support



⑤ Magnetic stirring bar



② Spare Fuse



THPMS-19 & THPMS-19T only





④ Temp probe

⑥ User manual

PLEASE CONTACT US IF YOU ARE MISSING ANY OF THESE COMPONENTS

2. Technical Specifications

This hot plate contains an integrated magnetic stirrer, ideal for use in a laboratory. The dual controls allow you to set heat output and stirring speed independently. The hot plate can reach a maximum temperature of 350 °C (662 F) (depending on model) with an output of 180 watts. The magnetic stirrer is adjustable from 100 to 1600 rpm.

Magnetic Hotplate Stirrer Technical Data				
Model	THPMS-12	THPMS-17	THPMS-19	THPMS-19T
Picture				
Plate size	12*12 CM	17*17CM	19*19CM	19*19CM
Voltage	Both 110 and 220 Volts			
Heating Temperature	280°C	300°C	350±10%	350±10%
Stirred volume	1L	3L	5L	5L
Speed	0 - 1600 rpm	0 - 1600 rpm	0 - 1600 rpm	200 - 2000 rpm
Plate material	Aluminum Surface	Aluminum Surface	Aluminum Surface	Ceramic Surface

How to replace the fuse:

Check the Fuse regularly to see if it is in good condition or if you experience issues running your machine

Where to find the fuse:



1. Remove the fuse compartment from underneath the plug socket. (Achieved by using a flat-head screwdriver to gently push out the fuse holder)
2. Replace the fuse only with a F10AL250V fuse.
3. Replace the fuse compartment, ensure that it is properly affixed, and run the machine normally

3. Safety Precautions



Please read these thoroughly before operation:

- Do not unplug the power connector while the device is working
- Do not unplug power supply while your hands have liquid on them
- Do not clean or perform maintenance on the machine while it is powered on and plugged in
- Do not use the device on an unsteady or unlevel work surface
- Always wear proper PPE, and follow safety protocols of your institution, while operating
- Be very careful with the hotplate turned on. Do NOT touch the aluminum surface as it gets very hot and can cause severe burns.

4. Operation Guide

How to assemble the device:

To set up the support stand: Screw the two rods together making one support rod. Make sure they fit tightly. Insert the slotted end of the rod into the plastic holder on the back of the base. Slip the right-angle clamp onto the support rod and tighten the knob. Slide in the thermometer holder and tighten the other knob. The height of the thermometer holder can be adjusted by moving the clamp up or down on the support.

To operate the device:

To use the hot plate:

1. Make sure the knobs are turned off. The white mark on each knob should be pointing down.
2. Connect the power cord to the back of the base. The base should be set on a hard surface, like a countertop or table.
3. Plug the other end of the power cord into a standard outlet. Make sure the outlet is safe and the power cord is not twisted.
4. Flip the power switch on the right side of the base. The line (-) indicates on and the circle (o) indicates off.

WARNING: Be very careful with the hotplate turned on. Do NOT touch the aluminum surface as it gets very hot and can cause severe burns.

5. Rotate the right knob in a clockwise direction. At maximum power the hot plate will take around 20-30 minutes to boil a large beaker of water. The surface in the middle of the plate can reach 350°C (662°F) (depending on the model) when the knob is turned all the way to maximum power.
6. Adjust the knob to keep the desired heat level, using a thermometer to check the temperature of the solution.
7. To turn off the hot plate, rotate the knob counterclockwise until you hear a click and the white mark is pointing down.
8. Make sure both knobs are off and flip the power switch off. Unplug the cord from the outlet by pulling on the plug, not the cord.

To use the magnetic stirrer:

1. Drop the stir bar into the solution and let it settle.
2. Turn on the magnetic stirrer by flipping the power switch on (-), then rotating the left knob in a clockwise direction.
3. The further you rotate the knob, the faster it will spin to stir your solution.
4. To turn off the magnetic stirrer, rotate the knob counterclockwise until you hear a click and the white mark is pointing down. Flip the power switch off. Unplug the device.
5. Remove the stir bar with a metal utensil. The stir bar will stick to it so you can lift it out easily.

5. Warranty Info

Tisch Environmental Inc. (dba: Tisch Scientific) conditionally warrants this instrument when used for its intended purpose for a 1-year period after the date of purchase. The warranty coverage is limited to manufacturing defects or product performance defects.

The subject warranty shall be voided under the following conditions but not limited to issues being caused by misuse or abuse of the product or customer tampering with the instrument or both.

Valid warranty claims as determined by Tisch Scientific will be dispositioned by replacement or repair.

Do not attempt to repair on your own.

Please contact us at **513-467-0222** or **support@tisch-env.com** for RMA info.
