

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [WEST TUNE](#) /

› [WEST TUNE WTMS-380T Hotplate Magnetic Stirrer Instruction Manual](#)

WEST TUNE WTMS-380T

WEST TUNE WTMS-380T Hotplate Magnetic Stirrer Instruction Manual

Model: WTMS-380T

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your WEST TUNE WTMS-380T Hotplate Magnetic Stirrer. This device is designed for laboratory use, primarily for stirring low-viscosity liquids and solid-liquid mixtures, with integrated heating capabilities.

Key features include:

- Touchable LCD screen for convenient and accurate setting of stirring speed, heating temperature, and stirring time.
- Real-time display of set and actual values.
- Program control function with 5 memory options and 5 program control settings for automated operation.
- Upgraded aluminum hot plate (5.5 inches diameter) for fast, uniform heat transfer, durability, and corrosion resistance.
- Internal and external temperature sensors for precise temperature control of the heating plate or sample.
- Speed range: 200-1500 rpm.
- Temperature range: RT+10-380°C/716°F.
- Timer range: 1s-99m59s.
- Maximum stirring volume: 3L.
- Ultra-temperature and over-speed alarm displays for safety.



Figure 1: WEST TUNE WTMS-380T Hotplate Magnetic Stirrer with accessories.

2. SAFETY PRECAUTIONS

- **WARNING:** Do not touch the heating plate before it cools down completely to avoid burns.
- Ensure the device is placed on a stable, level surface.
- Always use appropriate personal protective equipment (PPE) such as gloves and eye protection when operating.
- Do not operate the device near flammable materials.
- Ensure proper ventilation in the work area.
- Disconnect power before cleaning or maintenance.
- The magnetic stirrer has ultra-temperature and over-speed alarm displays. Pay attention to these warnings.
- Only use the device for its intended purpose as described in this manual.

3. WHAT'S IN THE BOX

Upon unpacking, verify that all components are present:

- WEST TUNE WTMS-380T Hotplate Magnetic Stirrer Unit
- Power cord
- Support rod
- Temperature sensor (external probe)
- Magnetic stir bar
- Fuse

4. SETUP

1. **Placement:** Place the stirrer on a stable, flat, and heat-resistant surface in a well-ventilated area.
2. **Install Support Rod:** Insert the support rod into the designated hole at the rear of the unit and tighten the securing screw.
3. **Connect Temperature Sensor:** If external temperature control is desired, connect the temperature probe to the port on the rear of the unit. Secure the probe to the support rod using the provided clamp, ensuring the probe tip is immersed in the liquid to be heated/stirred without touching the bottom or sides of the beaker.
4. **Power Connection:** Connect the power cord to the unit and then to a grounded electrical outlet.
5. **Initial Check:** Ensure the main power switch (located on the side/rear) is in the OFF position before connecting to power.

High Quality



Figure 2: Key components and features of the stirrer.



Figure 3: Temperature probe and clamp assembly.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Flip the main power switch (usually on the side or rear of the unit) to the "ON" position. The LCD screen will

illuminate.

Touch LCD Screen

Say goodbye to tedious buttons and knobs!



Figure 4: Touch LCD Screen Interface.

5.2 Setting Stirring Speed

1. On the LCD screen, touch the "Speed" display area.
2. Use the numeric keypad to enter the desired stirring speed in RPM (Revolutions Per Minute).
3. Confirm the setting. The actual speed (PV) will adjust to the set value (SV).

5.3 Setting Heating Temperature

1. Touch the "Heating plate temperature" or "Sample temperature" display area, depending on whether you are using the internal sensor or external probe.
2. Enter the desired temperature in Celsius or Fahrenheit using the numeric keypad.
3. Confirm the setting. The heating will begin, and the actual temperature (PV) will rise towards the set value (SV).

5.4 Setting Working Time

1. Touch the "Time" display area.
2. Enter the desired working duration in minutes and seconds.
3. Confirm the setting. The timer will start once the stirring and/or heating functions are activated.

5.5 Program Control Function

The device supports 5 sets of memory options and 5 sets of program control operations for automated processes.

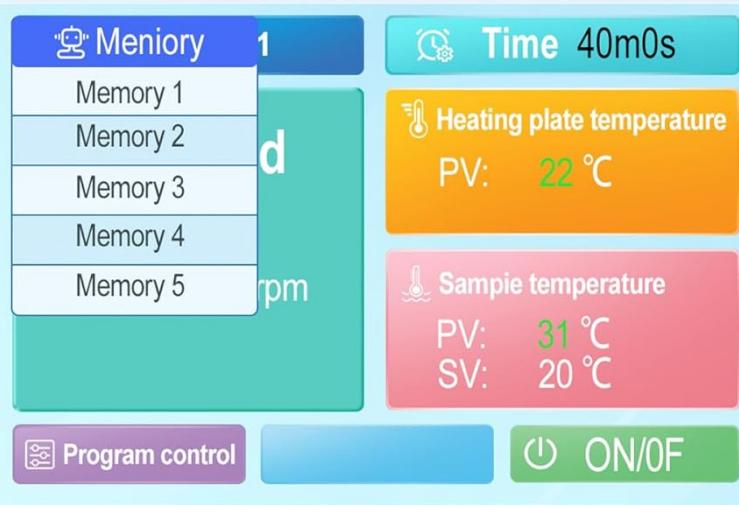
1. Memory Options:

- Touch "Memory 1" (or Memory 2-5) to access saved settings.
- To save current settings, adjust speed, temperature, and time as desired, then long-press the desired "Memory" button until a save confirmation appears.

2. Program Control Operations:

- Touch "Program control" to enter the program setting interface.
- Select "Program 1" (or Program 2-5) to configure a sequence of operations.
- For each step in the program, set parameters such as speed, temperature, and duration.
- Save the program. The device can automatically run up to 5 sets of programs simultaneously.

Automatic Program



5 Sets of Memory choices



Figure 5: Program and Memory Settings Interface.

5.6 Video Tutorial: Operation Overview

Your browser does not support the video tag.

Video 1: Introduction to the operation of the hotplate magnetic stirrer. This video demonstrates basic setting of speed, heating temperature, and working time using the touch screen interface.

6. MAINTENANCE

- Cleaning:** Always disconnect the power cord before cleaning. Use a soft, damp cloth with a mild detergent to clean the exterior surfaces. Do not use abrasive cleaners or solvents. Ensure no liquid enters the internal components.
- Hot Plate Care:** Allow the hot plate to cool completely before cleaning. Wipe away any spills immediately.
- Storage:** Store the device in a clean, dry environment when not in use.
- Fuse Replacement:** If the unit fails to power on, check the fuse located near the power inlet. Replace with a fuse of the same type and rating as specified in the specifications.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; Blown fuse; Power switch off.	Check power cord connection and outlet; Replace fuse; Ensure power switch is ON.
Stirring motor not working.	Speed setting too low; Stir bar not present or improperly placed; Motor malfunction.	Increase speed setting; Ensure stir bar is in the vessel and centered; Contact support if problem persists.
Heating plate not heating or inconsistent temperature.	Temperature setting too low; External probe not properly immersed or faulty; Internal sensor issue; Heating element malfunction.	Increase temperature setting; Ensure external probe is correctly positioned; Verify probe connection; Contact support if problem persists.
Display shows error message.	System error; Sensor fault; Over-temperature/over-speed alarm.	Refer to specific error codes in a more detailed technical manual (if available); Check sensor connections; Reduce speed/temperature settings if alarms are active. If error persists, contact support.

8. SPECIFICATIONS

The following table outlines the technical specifications for the WEST TUNE WTMS-380T Hotplate Magnetic Stirrer:

Product Parameter

Product model	Workboard size
WTMS-380T	140mm/Φ5.5in
Motor type	voltage
Brushless DC motor	100-120/60Hz
Speed range [rpm]	Total power (W)
200-1500rpm	410W
Heating power (W)	Max heating temperature
400W	RT+10~380°C@Room Temp
Max Liquid temperature	Motor voltage
RT+10~200°C@Room Temp	12V DC / 5W
Max stirring quantity [H2O]	Permissible ambienttemperature
3L	-5~35°C/80%RH
Permissible ambient tem.perature	Weight (lb)
10*6.4*16.5in	4.4lb

Figure 6: Detailed Product Parameters.

Parameter	Value
Product Model	WTMS-380T
Workboard Size	140mm / 5.5 inches
Motor Type	Brushless DC motor
Voltage	100-120V / 60Hz
Speed Range	200-1500 rpm
Total Power	410W
Heating Power	400W
Max Heating Temperature	RT+10-380°C (716°F) @ Room Temp
Max Liquid Temperature	RT+10-200°C @ Room Temp

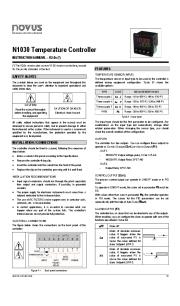
Parameter	Value
Motor Voltage	12V DC / 5W
Max Stirring Quantity [H ₂ O]	3L
Permissible Ambient Temperature	-5~35°C / 80% RH
Product Dimensions	10 x 6.4 x 4.7 inches
Weight	4.4 lbs

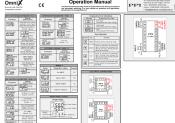
9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact the WEST TUNE customer service team. Refer to your purchase documentation or the official WEST TUNE website for contact details. If there is any problem with the product, please contact us for satisfactory service.

© 2024 WEST TUNE. All rights reserved.

Related Documents - WTMS-380T

	<p>JBL TUNE 750BTNC Wireless Noise-Cancelling Headphones User Manual</p> <p>Explore the JBL TUNE 750BTNC manual for detailed instructions on setup, Bluetooth pairing, button commands, wired listening, multi-point connection, charging, LED indicators, and technical specifications of these wireless noise-cancelling headphones.</p>
	<p>JBL Tune 510BT Wireless On-Ear Headphones User Guide & Manual</p> <p>Comprehensive user guide for the JBL Tune 510BT Wireless On-Ear Headphones, covering setup, pairing, controls, charging, technical specifications, and frequently asked questions for optimal use.</p>
	<p>N1030 Temperature Controller Instruction Manual</p> <p>Instruction manual for the Novus N1030 Temperature Controller, covering features, installation, operation, PID parameters, maintenance, and specifications.</p>

	<p><u>OmniX Economic Self-Tune PID Temperature Controller Operation Manual</u></p> <p>Operation manual for the OmniX Economic Self-Tune PID Temperature Controller, providing quick reference for wiring connections, parameter searching, and operation details. Includes technical specifications and electrical connection diagrams.</p>
	<p><u>West Bend Hot Air Popcorn Popper Instruction Manual</u></p> <p>This document provides instructions for using, cleaning, and maintaining the West Bend Hot Air Popcorn Popper. It includes important safety precautions, helpful hints, and recipes.</p>
	<p><u>Trefoil Guild Cambridgeshire West A to Z Challenge Guide and Order Form</u></p> <p>Official guide, order form, and record sheet for the Trefoil Guild Cambridgeshire West's A to Z challenge. This program encourages members to complete 26 activities, with details on participation, badge ordering, and tracking progress.</p>