Quick Start Guide

VWR® Advanced/Professional Hotplate-Stirrers

EU cat. no

Hotplate-Stirrers

442-1265

442-1268

442-1270

442-1274

442-1266

442-1267

442-1271

442-1272

Hotplate

442-1269

Stirrer

442-1273



Manufactured in USA

BASIC FUNCTIONS

Quick Press (.05 sec)	Long Press (.3 sec)	Press & Hold (1.5 sec)	Rotate

 **I/O – Standby Switch**	**Turn unit on** (Press switch)	
	Turn unit off (Press switch)	
 **Temp Knob Functions**	**Change temp settings** (Rotate temp knob)	
	Turn heater on (Long press temp knob until unit beeps & green light appears)	
	Change temperature settings, while heating (Rotate temp knob, the setting will blink, then quick press knob)	(If setting is idle for 6 sec, setting will return to prior value)
	Turn heater off (Long press temp knob until unit beeps & green light fades)	
	Enter settings menu *[heater & stirrer must be off]* (Press & hold temp knob until "MENU" appears)	
 **Speed Knob Functions**	**Change speed settings** (Rotate speed knob)	
	Turn stirrer on (Long press speed knob until unit beeps & green light appears)	
	Change speed settings, while stirring (Rotate speed knob, the setting will blink, then quick press knob)	(If setting is idle for 6 sec, setting will return to prior value)
	Turn stirrer off (Long press speed knob until unit beeps & green light fades)	
	Enter timer settings - Professional only *[heater & stirrer must be off]* (Press & hold speed knob until "HH:MM" appears)	

MENU *(Not applicable for Stirrers)*

To access the settings menu, the heater and stirrer must be off. Then press and hold the Temp/Menu knob until “MENU” appears on the screen. (The heater will not turn on unless the knob is released before “MENU” appears.)

To navigate the settings menu, rotate the knob then quick press the knob to choose the selection. Once in the selection, rotate the knob to change the setting and quick press the knob to confirm.

To return to the top level of the settings menu, rotate the knob to “BACK” then quick press the knob. To return to the main operating screen from the top level of the settings menu, rotate the knob to “EXIT” then quick press the knob.

To exit the menu at any time, flip the standby switch off and back on. The unit will return to the main operating screen and will be ready for normal use.

Menu Features:

1. **“TLIM” – Temperature Limitation** *(Professional units only)*

   Allows the user to change the maximum temperature limit of the heater.

2. **“CAL” – Single Point Calibration**

   Single Point Calibration (SPC) improves the accuracy of the heater at user-selected temperature points. SPC can be used during plate-controlled and probe-controlled heating.

3. **“SYS” – System Settings**

   i. Enabling / Disabling the Beeper
   ii. Changing the Timer Start Setting *(Professional units only)*
   iii. Changing the Power Recovery Setting
   iv. Resetting to Factory Default Settings

EURO TO SWISS ADAPTER



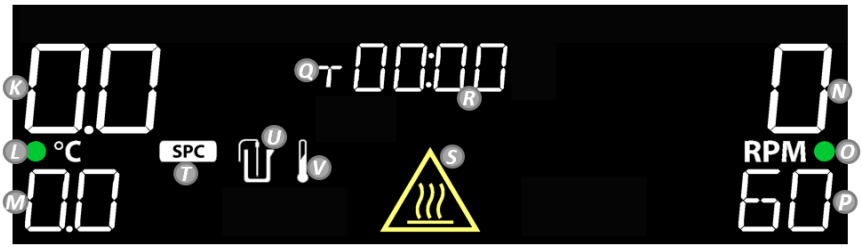
Step 1. Align the Swiss plug adaptor with the unit’s Euro style cord.



Step 2. Firmly connect the Swiss plug adaptor to the power cord.

Note - The connection between the adaptor and the power cord will be permanent.

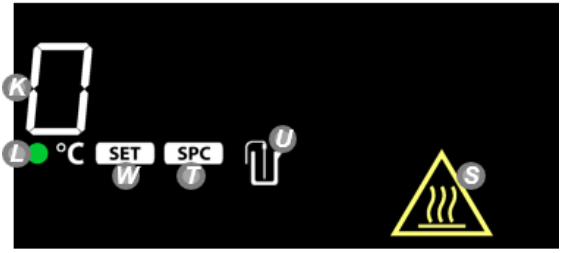
DISPLAY (Professional)



DISPLAY (Advanced)



DISPLAY (Advanced Hotplate 7 x 7)



DISPLAY (Advanced Stirrer 7 x 7)



K. Heater Temperature: Switches to external probe temperature when the probe is plugged in and (U) is illuminated.
L. Heat Indicator: Illuminates when heater is running
M. Heat Setting
N. Stir Speed
O. Stirrer Indicator: Illuminates when stirrer is running
P. Speed Setting
Q. Temperature Priority Icon
R. Timer: Hours : Minutes / Minutes : Seconds
S. Hot Top Caution Indicator: Illuminates when the heater is ≥ 40°C.
T. Single Point Calibration Icon
U. External Probe Icon
V. Temperature Limit Icon
W. Heat Setting Indicator: Switches Heater Temperature (L) to Heat Setting when illuminated.
X. Speed Setting Indicator: Illuminates until stirrer reaches the Speed Setting (O).

SAFETY INFORMATION

Safety notes are marked with signal words and warning symbols. These show safety issues and warnings. Ignoring the safety notes may lead to personal injury, damage to the instrument, malfunctions and false results.

WARNING	For a hazardous situation with medium risk, possibly resulting in severe injuries or death if not avoided.
CAUTION	For a hazardous situation with low risk, resulting in damage to the device or the property or in loss of data, or minor or medium injuries if not avoided.
ATTENTION	For important information about the product. May lead to equipment damage if not avoided.
NOTE	For useful information about the product.

Global Notice
Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Warning Symbols


General Hazard


Caution, hot surface


Electrical shock hazard

SAFETY PRECAUTIONS



WARNING: DO NOT use the Hotplate-Stirrer in explosive atmospheres or with materials that could cause a hazardous environment from processing. Keep in mind the material flash point relative to the target temperature that has been set. Also, the user should be aware that the protection provided by the equipment may be impaired if used with accessories not provided by the manufacturer.
Always operate unit on a level surface for best performance and maximum safety.
DO NOT lift unit by the top plate.



CAUTION! To avoid electrical shock, completely cut off power to the unit by disconnecting the power cord from the wall outlet. Disconnect unit from the power supply prior to maintenance and servicing.
Spills should be removed promptly after the unit has cooled down.
DO NOT immerse the unit for cleaning. Alkalis spills, hydrofluoric acid or phosphoric acid spills may damage the unit and lead to thermal failure.



CAUTION! The top plate can reach 500°C.
DO NOT touch the heated surface. Use caution at all times. Keep the unit away from explosive vapors and clear of papers, drapery, and other flammable materials. Keep the power cord away from the heater plate.
DO NOT operate the unit at high temperatures without a vessel/sample on the top plate.
DO NOT operate the unit if it shows sign of electrical or mechanical damage.
WARNING! Units are NOT explosion proof. Use caution when heating volatile materials.



Earth Ground – Protective Conductor Terminal. Protective earthing of the equipment is achieved via connection of the provided power cord to a compatible grounded power outlet.



Alternating Current

TROUBLESHOOTING

The following table lists common problems and possible causes and remedies. If the problem persists, please contact your VWR representative for repairs.

Error*	Cause of Error	How to Fix
Unit fails to power on	Missing or blown fuse	Add or replace fuse as necessary.
E1	Plate RTD open	Not fixable by user, please contact VWR.
E2	Plate RTD short	Not fixable by user, please contact VWR.
E3	No stirring motion / cannot reach speed	Not fixable by user, please contact VWR.
E4	Probe RTD open (Removing the probe while the unit is heating)	Unit will beep 10 times. After audible alarm ends, switch unit to standby, then return to normal operating mode.
E5	Probe RTD short (Malfunctioning probe)	Unit will beep 10 times. After audible alarm ends, switch unit to standby, then return to normal operating mode.
E6	A/D lock error	Not fixable by user, please contact VWR.
E7	User Probe Error (Plugging the probe into the unit while it is heating)	Unit will beep 10 times. After audible alarm ends, switch unit to standby, then return to normal operating mode.
E8	Plate over temperature	Not fixable by user, please contact VWR.
E9	Plate under temperature	Not fixable by user, please contact VWR.
E10	Triac fault	Not fixable by user, please contact VWR.

***Note**: Error code instances will stop equipment operation by default.

INSTRUCTION MANUALS

For more information, please consult the full instruction manual by visiting http://www.VWR.com and look up your unit part number.