

The logo for revvity, featuring the word "revvity" in a white, lowercase, sans-serif font on a black background. The background of the entire page is a vibrant, abstract graphic of overlapping, translucent spheres in shades of yellow, orange, and green, resembling a molecular or cellular structure.

revvity

USER MANUAL

TH Tissue Homogenizer

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This product has been engineered for safety; however, basic safety precautions and common sense must always be demonstrated when using any electrical product.

- Use this product only for its intended purpose.
- Keep this product away from heated surfaces.
- **DO NOT** attempt to modify any part of this product.
- **DO NOT** allow the machine to be submerged in any liquid.
- **DO NOT** use in any setting other than an indoor laboratory.
- **DO NOT** use attachments not recommended by the manufacturer.
- **DO NOT** operate the product if it is damaged in any way.
- **DO NOT** operate the product with the safety ground disconnected.
- **DO NOT** modify the plug or cord that is provided.

WARNING: Reduce the risk of unintentional starting; make sure the machine is OFF before plugging into a power supply.

WARNING: Damaged or worn power cords should be repaired or replaced immediately by a qualified electrician.

WARNING: Improper connection of the equipment can result in a risk of electric shock.

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Proper Equipment Operation

To reduce the risk of electric shock, do not remove the cover. No user serviceable parts are inside. Refer to qualified service personnel if help is required. Use this product only in the manner described in this manual. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

FCC

This device complies with part 15 of the FCC (United States Federal Communications Commission) Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation.

CE/UKCA

This device complies with all CE and UKCA rules and requirements.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment is marked with the crossed-out wheeled bin symbol, to indicate that this equipment may not be disposed of as unsorted municipal waste.

It's your responsibility to correctly dispose of your equipment at life-cycle end, by handing it over to an authorized facility for separate collection and recycling of waste equipment. It's also your responsibility to decontaminate your equipment in case of biological, chemical or radiological contamination, and so protect the persons involved in the disposal and recycling of the equipment from health hazards.

For more information about where you can dispose of your waste equipment, please contact your local dealer, from whom you purchased the equipment.

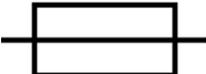
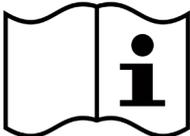
By doing so, you will help to preserve natural and environmental resources and you will ensure that your equipment is recycled in a manner that protects human health.



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Table of Symbols

Symbol	Description	Symbol	Description
	Caution. Refer to the User documentation (ISO 7000-0434B)		On (power). (IEC 60417-5007)
	Hazardous voltage; risk of electric shock. (IEC 60417-6042)		Off (power). (IEC 60417-5008)
	Fuse. (IEC 60417-5016)		Consult Instructions for Use. (ISO 7000-1641)
	Alternating current. (IEC 60417-5032)		CE Compliance Mark
	UKCA Certification Mark		WEEE symbol (EN50419:2005)
	RoHS Certification Mark		KC Certification Mark

Specifications

Part Number	TH-115 and TH-220
Input Voltage	TH-115 - 100-115V, 50/60 Hz and TH-220 - 220-230V 50/60 Hz
Weight	1.18 lbs. (538 g)
Dimensions	W: 2.5" (6.4 cm), H: 9" (22.9 cm)
Power	125 Watts
Speed	5,000 - 35,000 rpm
Standards Approval	CE and UKCA Approved

Site Requirements

Operating Environment

4°C to 40°C / 39°F to 104°F, Humidity: 5% to 95% RH

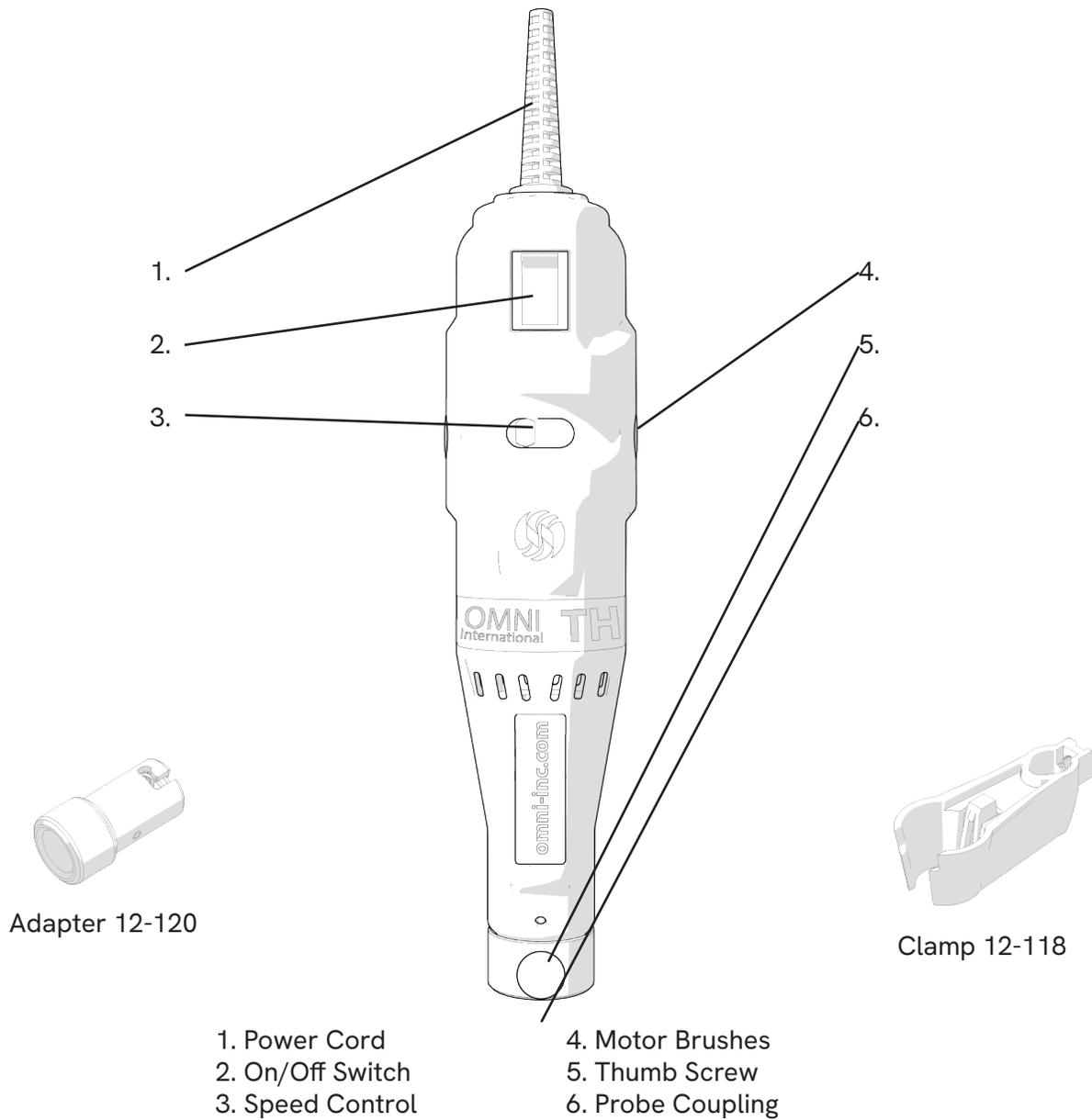
Ambient Air

The system must be located in an area where the ambient air is clean. No emission of solid particles or smoke in the air by adjacent equipment is allowed. The level of dust should be comparable to that of normal laboratory spaces.

External Fire Protection

External fire protection should be installed according to local regulations for equipment operating unattended.

System Overview



The TH consists of the following:

Description	Part Number	Quantity
Motor Drive Unit 110V or 220V	TH01 or TH02	1
Clamp	12-118	1
Tool Kit	T1001	1
Soft Tissue Omni Tip	30007L	1
Hard Tissue Omni Tip	30007HT	1
Omni Tip Adapter	12-120	1
Instruction Manual	H259-TH	1

Optional Stand Available (sold separately) - Order No. S1000

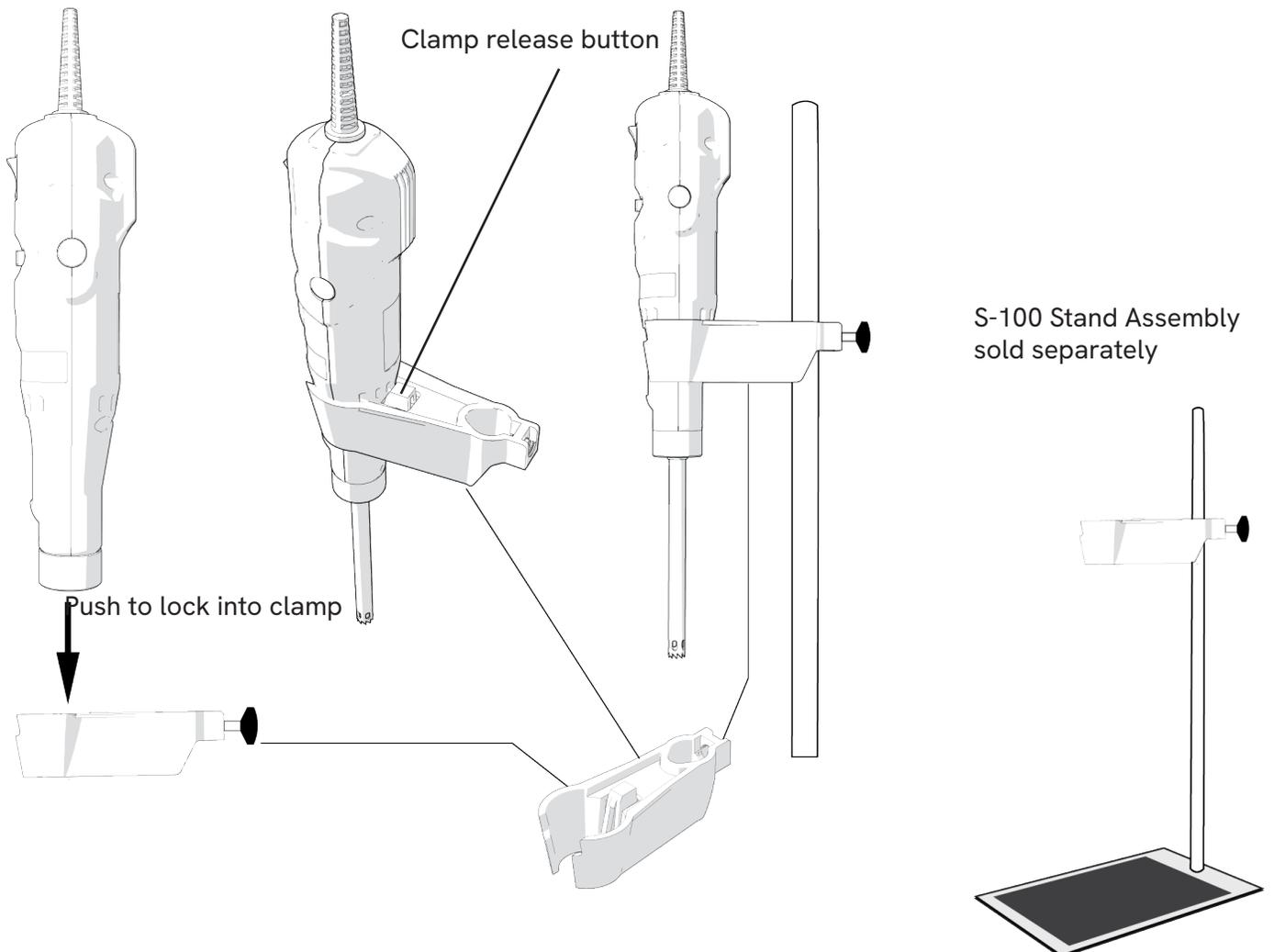
General Operation

- Insert charged battery into housing.
- Move the On/Off switch on the front of the unit to the On position.
- **5,000 - 30,000 rpm**
- Adjust speed using the variable speed control. To increase rpm, move control from back to front.
- Move the On/Off switch on the front of the unit to the Off position.

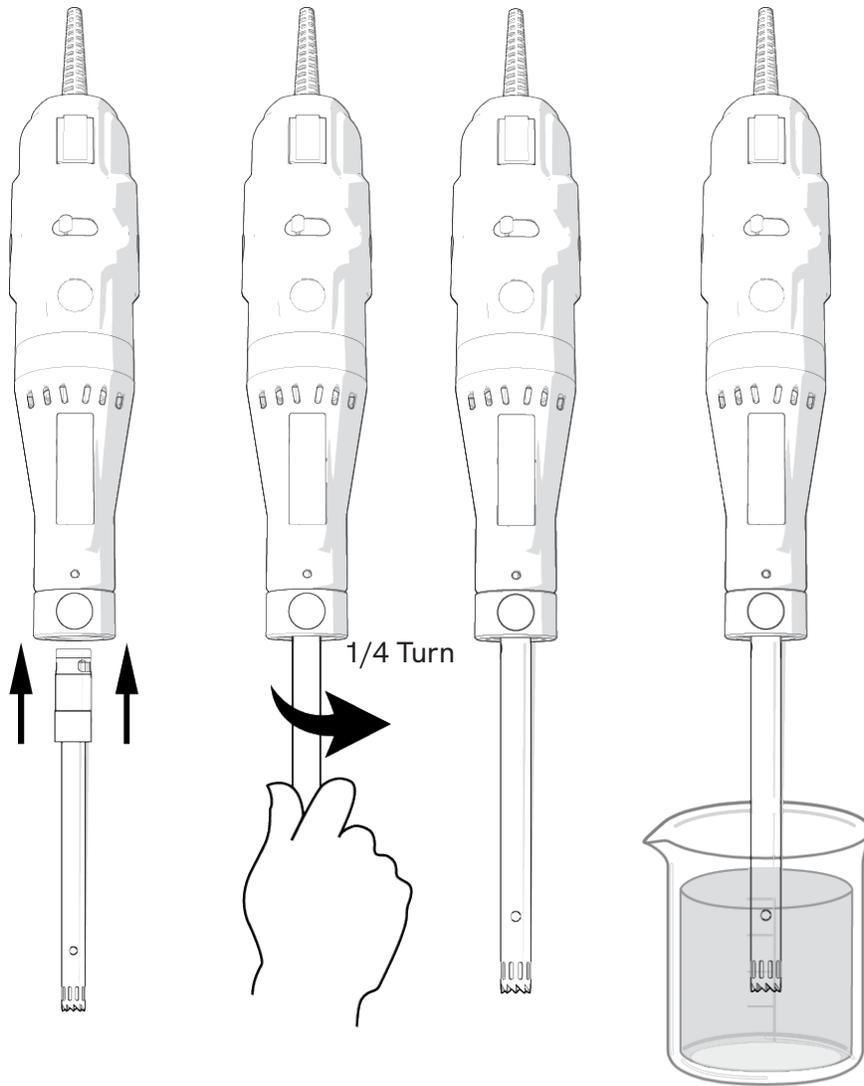
Stand Mounting the TH

The Stand Assembly (S-1000) is sold separately.

- Slide the TH motor into the opening on the end of the post clamp assembly and push it down firmly. The unit will lock in place.
- To release the TH, press the black button on the back of the opening of the post clamp assembly and lift the motor from the cradle.
- Slide the post clamp assembly down over the end of the post until the clamp is at the desired height and lock in place.



Inserting Generator Probes into the TH



1. Insert Generator Probe into coupling.
2. Quarter turn clockwise to lock.
3. Tighten thumbscrew.
4. Ready to use.
*Always submerge probe in liquid before starting.

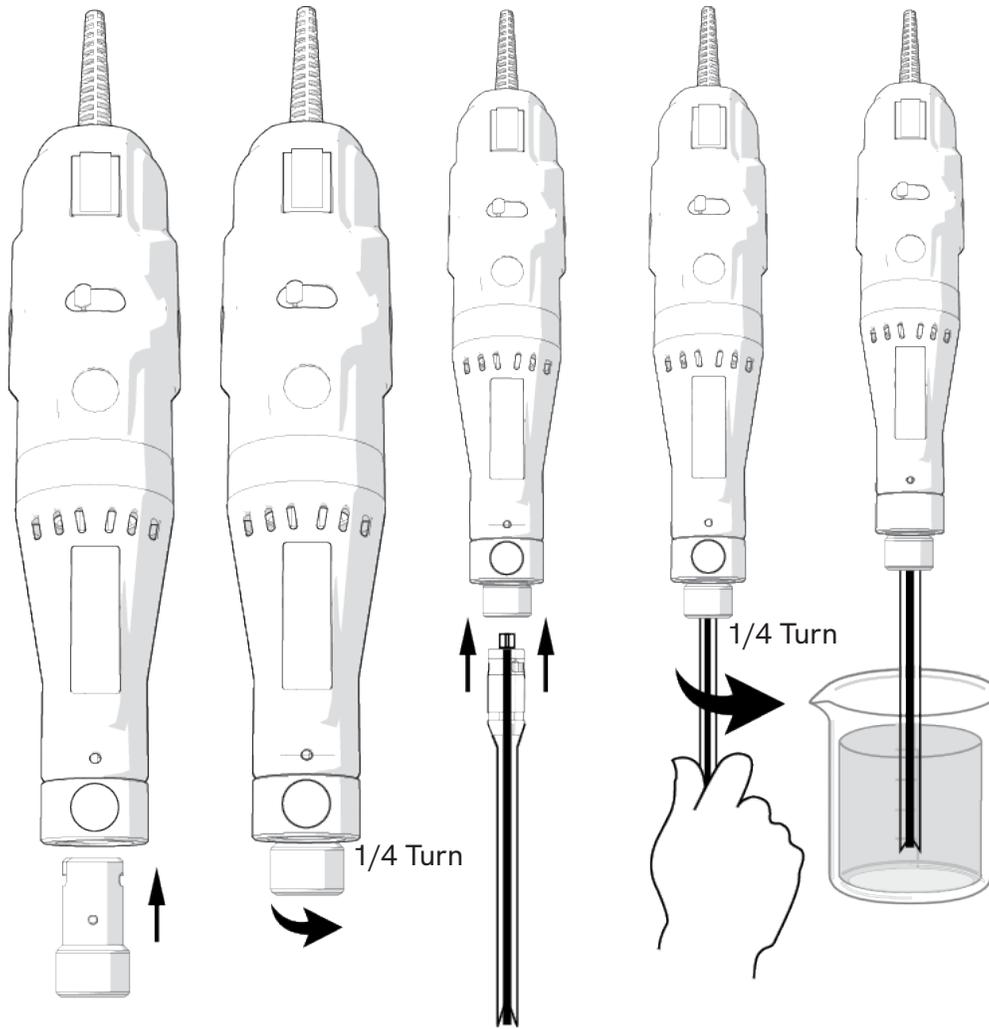
*Never run dry

WARNING: The blue protective cap must be removed from the end of the generator probe before operating.

Generator Probes for the TH

Diameter	Length	Part Number	Processing Range	Pack Qty
5 mm	75 mm	B5-075	<200 μ L - 5 mL	1
5 mm	75 mm	B5-075-6	<200 μ L - 5 mL	6
7 mm	110 mm	B7-110ST	250 μ L - 30 mL	1
7 mm	110 mm	B7-110ST-6	250 μ L - 30 mL	6
10 mm	110 mm	B10-110ST	1.5 - 100 mL	1
10 mm	110 mm	B10-110ST-6	1.5 - 100 mL	6

Inserting Disposable Omni Tip Probes into the TH



1. Insert adapter into coupling.
2. Quarter turn clockwise to lock. Tighten thumbscrew.
3. Insert Omni Tip into adapter.
2. Quarter turn clockwise to lock.
5. Ready to use.
*Always submerge probe in liquid before starting.

Disposable Probes for the TH

Diameter	Length	Part Number	Type	Pack Qty
7 mm	110 mm	30750H	Soft Tissue	25
7 mm	110 mm	32750H	Soft Tissue	50
7 mm	110 mm	30750	Hard Tissue	25
7 mm	110 mm	32750	Hard Tissue	50
12 mm	110 mm	301250	Hard Tissue	25
12 mm	110 mm	321250	Hard Tissue	50

Troubleshooting

Problem	Possible Solution
The Omni TH is plugged in and turned on but is not functioning.	<ul style="list-style-type: none">- Check power cord connectors.- Check wall socket for power to the outlet.
Motor is turned ON and makes a makes a “buzzing” sound, but is not working.	<ul style="list-style-type: none">- Check that the brushes are not worn and are correctly installed.
Motor unit operating speed declines, stalls intermittently, or stops completely.	<ul style="list-style-type: none">- Check that the brushes are not worn and are correctly installed.
PTFE bearing wears quickly.	<ul style="list-style-type: none">- Fluid level may be too low in the tube.- Immerse the probe deeper into the fluid.

WARNING: Any service must be performed by a qualified service technician. This can be either an Revvity Technician or an end user resource.

All parts need to be sourced from the Revvity service department.



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