

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**

# THQ Digital Tissue Homogenizer

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Document Number: 03-225

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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.

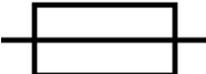
By doing so, you will help to preserve natural and environmental resources and you will ensure that your equipment is recycled in a manner that protects human health.



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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	12-500
Input Voltage	100-230V, 50/60 Hz
Weight	0.74 lbs. (340 g)
Dimensions	W: 2.2" (5.6 cm), H: 8.6" (21.8 cm)
Power	40 Watts
Speed	8,000 - 32,000 rpm (increments of 500 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

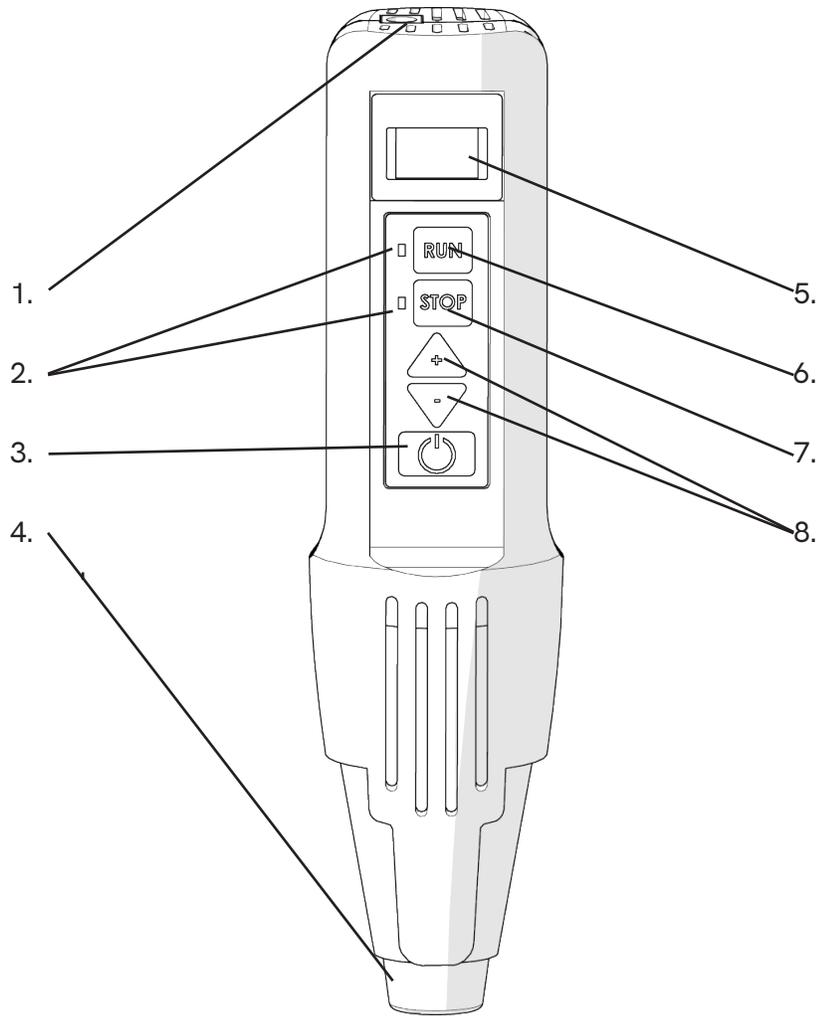
### Ambient Air

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



- |                             |                           |
|-----------------------------|---------------------------|
| 1. Power Cord Port          | 4. Digital Readout Screen |
| 2. Run/Stop LED Indicators  | 5. Run Button             |
| 3. Power                    | 7. Stop Button            |
| 4. Generator Probe Coupling | 8. RPM Adjustment         |

The THQ consists of the following:

Description	Part Number	Quantity
Motor Drive Unit	12-200-1	1
Clamp	12-118	1
Tool Kit	T1001	1
Soft Tissue Omni Tip	30007L	6
Hard Tissue Omni Tip	30007HT	6
Instruction Manual	03-225	1

Optional Stand Available (sold separately) - Order No. S-1000

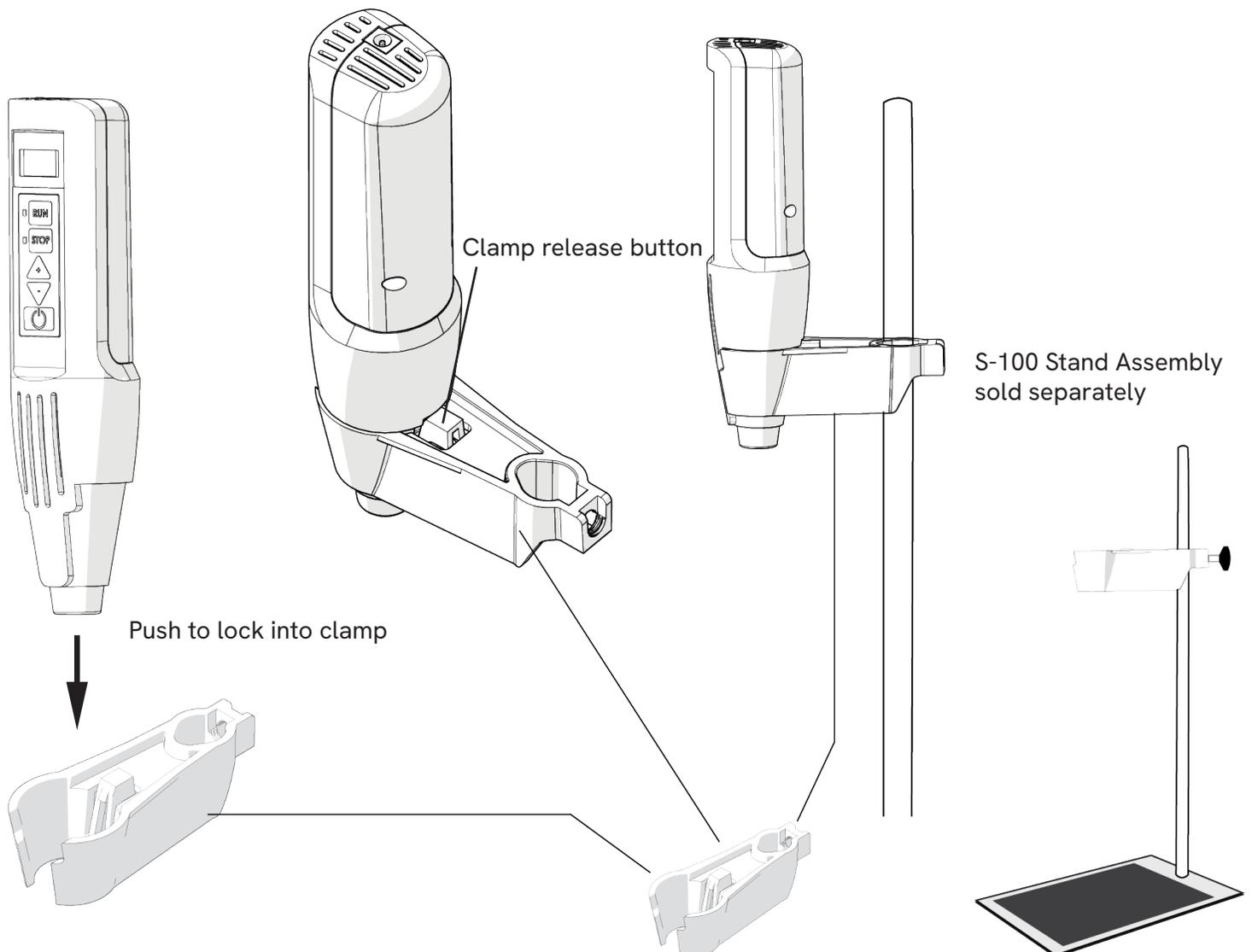
## General Operation

- Plug in the power cord and press the power button
- Adjust the speed using the increase/decrease speed buttons
- **8,000 - 32,000 rpm (increments of 500 rpm)**
- Press the RUN button to start
- Press the STOP button once homogenization is completed

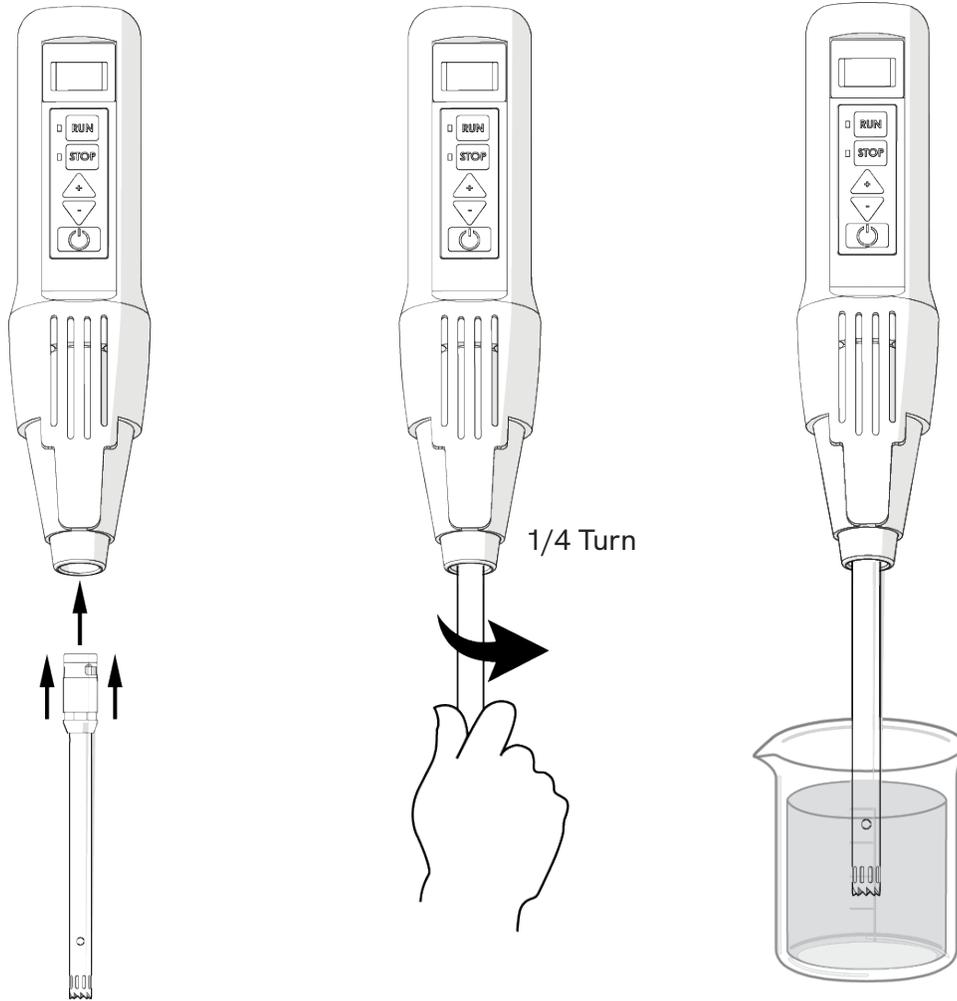
## Stand Mounting the THQ

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

- Slide the THQ 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 THQ, 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 Probes into the THQ



1. Insert Generator Probe into coupling.
2. Quarter turn clockwise to lock.
3. 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 THQ

Diameter	Length	Part Number	Processing Range	Pack Qty
5 mm	75 mm	B5-075	<200 µL - 5 mL	1
5 mm	75 mm	B5-075-6	<200 µL - 5 mL	6
7 mm	110 mm	B7-110ST	250 µL - 30 mL	1
7 mm	110 mm	B7-110ST-6	250 µL - 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

## Disposable Probes for the THQ

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 THQ is plugged in and turned on but is not functioning.	<ul style="list-style-type: none"> <li>- Check power cord connectors.</li> <li>- Check wall socket for power to the outlet.</li> </ul>
Teflon bearing wears quickly.	<ul style="list-style-type: none"> <li>- Fluid level in the sample may be too low.</li> <li>- Immerse the probe further into the fluid.</li> </ul>
Excessive splashing in the sample.	<ul style="list-style-type: none"> <li>- Fluid level is too low for the tube size.</li> </ul>
Motor does not spin. Green light flashes.	<ul style="list-style-type: none"> <li>- Rotor is locked. Remove the obstruction.</li> </ul>

**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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