



OMNI International

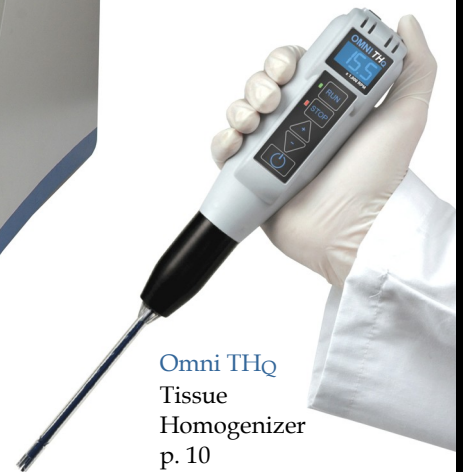
The Homogenizer Company™

Export Catalog 2012

Omni Tip™
Plastic Probes
p. 12



NEW!
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Bead Mill Homogenizer
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www.TheHomogenizerCompany.com



INNOVATIVE SOLUTIONS

Omni International's Homogenizers have been a laboratory staple for over 50 years. Omni sets the industry standard with a commitment to outstanding design, performance and a uniquely diversified solution-based product line. We offer a complete portfolio of homogenizers designed for pharmaceutical, life science, biotechnology, agricultural, microbiology and chemical research and development. Our business is strictly homogenizer-focused, and we offer the broadest range of solutions to process any sample, including high shear, ultrasonic, mortar and pestle, and bead mill homogenizers.

In response to increased activity in global infectious disease research, Omni was first in designing and developing a patented plastic disposable generator probe, the **Omni Tip™**, which completely eliminates cross-contamination between samples. Our multi-sample homogenizers again sets the standard by removing the labor intensive work of processing repetitive samples one at a time.

CUSTOMER SERVICE

Our staff of engineers and technicians is dedicated to finding solutions that improve sample processing, reduce noise, and improve sample processing efficiency, while our support team works to assure that we routinely exceed our customers' expectations. We are confident that you will find our products superior to others.

Omni International offers no-risk product evaluations for your convenience

QUALITY AND CONVENIENCE

Omni products offer the most cost-effective choice for quality, service, and convenience to effectively and efficiently process all types of sample preparation applications, usually in 30 seconds or less. We offer the broadest choice of accessories to process the widest range of samples with user-friendly designs that are easy to clean and maintain. They are also backed by years of solution-based experience and excellent customer service.

Discover for yourself the many benefits that an Omni system has to offer.

HOW TO ORDER

Email: omni@omni-inc.com

Phone: 1(800) 776-4431
1(770) 421-0058

8:00 AM – 5:00 PM ET,
Monday – Friday

Fax: 1(770) 421-0206
24 hours a day

Mail: 935-C Cobb Place Blvd.
Kennesaw, GA 30144

Website: www.omni-inc.com

PAYMENT OPTIONS

1. Purchase Orders
2. Check or Money Orders
3. We accept the following credit cards:



www.omni-inc.com
Phone: 1-800-776-4431

E-Mail: omni@omni-inc.com
Fax: 1-770-421-0206

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Ideal for bacteria and cells (0.5mL – 1L).

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Omni Prep – 6 samples
Ideal for tissues and emulsions (0.25mL – 30mL)

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Ideal for bacteria, cells, plant and animal tissue (25µL-5mL)

Omni LH96 – 96 samples
Ideal for tissues and emulsions (0.25mL – 30mL)

P. 29**MANUAL TISSUE GRINDERS**

BioMashers
Ideal for small and tough samples (0.05mL – 55mL).

P. 40**[Our Applications database can help you find the best solution - quickly.](#)**

Our constantly expanding database consists of carefully reviewed customer published applications, sorted into useful categories, complete with product recommendations to help you find the right laboratory homogenizer for any sample type.
If you can't find an answer in the database, call us and we'll help!

www.omni-inc.com/applications



HAND-HELD/ ROTOR-STATOR HOMOGENIZERS

High shear laboratory homogenizers are designed to process tough samples quickly and efficiently without compromising the sample. Faster processing times mean less chance of heat degradation to the sample. These motors are available in hand held or stand mounted configurations with speeds of up to 35,000 rpm. Homogenizers are a standard piece of equipment for any lab. Not sure which configuration will work best for your application? Contact our technical support team at 1-800-776-4431.



Omni Tissue Master

- Value priced with stainless steel probe included
- Lightweight and easy to use
- Variable speed control from 5,000-35,000 rpm

**Tissue
Master
P. 5**

Omni TH

- Powerful 125 watt motor
- Works with Plastic Omni Tips & Stainless Steel Probes
- Variable speed control from 5,000-35,000 rpm
- Available in convenient Omni Tip Kits (See Page 8)

**TH
P. 6**

Omni THQ

- Integrated digital speed display and control
- Whisper Drive Technology ensures quiet operation
- Variable speed control from 8,000-35,000 rpm
- Works with Plastic Omni Tips & Stainless Steel Probes

**THQ
P. 10**

Omni Tips

- Disposable or Autoclavable to eliminate cross-contamination
- Two-piece clear stator design eliminates sample loss
- Soft & Hard Tissue versions available
- Treatable volume: 0.25mL-30mL

**Omni
Tips
P. 12**



OMNI TISSUE MASTER ECONOMICAL HOMOGENIZER

OMNI TISSUE MASTER

Economical Homogenizing System
Processing Range: <0.20mL-100mL

Economically priced **Omni Tissue Masters** are well suited for customers who are homogenizing with little variation in sample size. Omni Tissue Masters include a stainless steel generator probe that can handle a wide variety of different types of samples making it is a great choice for a laboratory with many applications but a limited budget. **Please note:** Omni Tip Plastic Probes are not compatible with Tissue Master homogenizers.



Product Features:

- Includes 5mm, 7mm or 10mm stainless steel rotor stator probe
- Variable motor speed control from 5,000 to 35,000 rpm
- Most samples processed in under one minute
- Easy to clean and disassemble
- Portable and lightweight
- Hand Held or Stand Mountable
- Quiet operation, under 72 db
- UL and CE approved

Includes 125 watt motor, stainless steel generator probe, 1-year motor warranty & instruction manual.

Tissue Master 125 Watt Homogenizer

- Ideal for soft tissue applications and emulsions

<u>PRODUCT DESCRIPTION</u>	<u>115V ORDER #</u>	<u>220V ORDER #</u>
Omni Tissue Master 125 with 5mm Probe	TM125-115-05	TM125-220-05
Omni Tissue Master 125 with 7mm Probe	TM125-115	TM125-220
Omni Tissue Master 125 with 10mm Probe	TM125-115-10	TM125-220-10

Tissue Master 125 Homogenizer Package

Includes the Tissue Master 125 homogenizer motor and three stainless steel probes (5mm, 7mm & 10mm).

<u>PRODUCT DESCRIPTION</u>	<u>115V ORDER #</u>	<u>220V ORDER #</u>
Tissue Master 125 Homogenizer Package	TM125-PKG	TM125-PKG-220



Tissue Master Stand Assembly

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
Optional Motor Stand Assembly	F22000



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OMNI TH TISSUE HOMOGENIZER

OMNI TH: TISSUE HOMOGENIZER

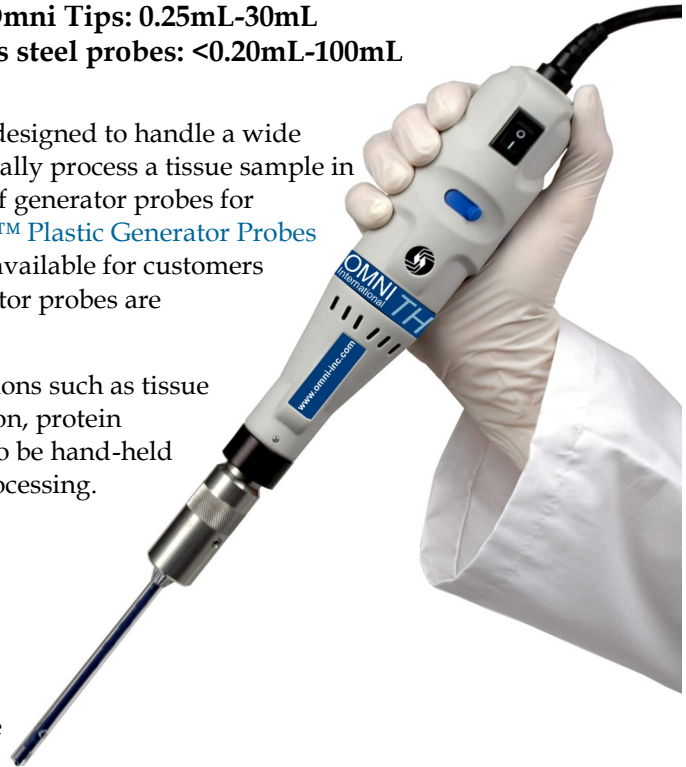
Hand Held or Post-Mountable Homogenizer

Processing Range with Omni Tips: 0.25mL-30mL

Processing Range with stainless steel probes: <0.20mL-100mL

The **Omni TH** is a powerful tissue homogenizer that was designed to handle a wide range of samples from <0.20mL to 100mL. The TH can usually process a tissue sample in less than 30 seconds. It is compatible with a wide variety of generator probes for flexibility in application requirements. Patented **Omni Tip™ Plastic Generator Probes** (page 12), in both soft tissue and hard tissue versions, are available for customers concerned with cross contamination. Stainless steel generator probes are recommended for larger and tougher sample types.

The **Omni TH** will accommodate a wide range of applications such as tissue homogenization, emulsions and suspensions, cell disruption, protein extraction and medical research. It is lightweight enough to be hand-held and can also be mounted to a motor stand for lengthier processing.



Product Features:

- Powerful 125 watt motor
- Lightweight ergonomic design
- Quiet operation, under 72db
- ¼ turn bayonet probe mounting system for fast release
- Variable speed control from 5,000 to 35,000 rpm
- Available in convenient Omni Tip Homogenizing Kits. See page 8.
- CE approved

Includes TH motor, 1-year motor warranty, tool kit and instruction manual.
Omni Tips™ and Stainless Steel Generator Probes sold separately.

Omni TH, Tissue Homogenizer

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
115 volt Omni TH: Tissue Homogenizer (motor only)	TH115
220 volt Omni TH: Tissue Homogenizer (motor only)	TH220



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TH Package Options

- TH Motor
- 3 Stainless Steel Generator Probes
-5x75mm flat bottom[G5-75], 7x95mm saw tooth [G7-95ST],10x95mm saw tooth[G10-95]
- Motor Stand Assembly

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
115 volt Complete TH Package	THP115
220 volt Complete TH Package	THP220
115 volt TH & Motor Stand Assembly (no probes)	TH115-K
220 volt TH & Motor Stand Assembly (no probes)	TH220-K
Stand Assembly (no motor)	S1000

Stainless Steel Homogenizer Probes*

Stainless Steel Probes are ideal for larger sample volume, larger initial sample tissue size, and tougher tissue types. They are also resistant to most organic solvents commonly used during homogenization.



	PROCESSING RANGE	RECOMMENDED VESSEL SIZE	LENGTH	TYPE	RESULTING PARTICLE SIZE	ORDER NUMBER
5mm Diameter	<0.20mL-5mL	Vessel with a minimum inner diameter of 6mm	75mm	Flat Bottom	Fine	G5-75
			75mm	Flat Bottom – Wide Window	Coarse	G5-75W
7mm Diameter	0.25mL-30mL	Vessel with minimum inner diameter of 8mm	95mm	Flat Bottom	Fine	G7-95
			95mm	Flat Bottom – Wide Window	Coarse	G7-95W
			95mm	Saw Tooth	Fine	G7-95ST
			95mm	Saw Tooth – Wide Window	Coarse	G7-95STW
			195mm	Flat Bottom	Fine	G7-195
			195mm	Flat Bottom – Wide Window	Coarse	G7-195W
			195mm	Saw Tooth	Fine	G7-195ST
			195mm	Saw Tooth – Wide Window	Coarse	G7-195STW
10mm Diameter	1.5mL-100mL	Vessel with minimum inner diameter of 12.5mm	95mm	Saw Tooth	Fine	G10-95
			95mm	Saw Tooth – Wide Window	Coarse	G10-95W
			195mm	Saw Tooth	Fine	G10-195
			195mm	Saw Tooth – Wide Window	Coarse	G10-195W

Disassembly Tool Kit. For use with generator probes listed above.

ORDER #: T1001

*See Page 12 for Omni Tip™ Plastic Probes



OMNI TIP™ HOMOGENIZING KITS

OMNI TIP™ HOMOGENIZING KIT

Everything You Need To Homogenize

Processing Range with Omni Tips: 0.25mL-30mL

Processing Range with stainless steel probes: <0.20mL-100mL

Omni Tip Homogenizing Kits include everything you need to homogenize. These kits can be used to process samples with a range of <0.20mL to 100mL. They come complete with an Omni TH motor, Omni Tip™ adapter, 12 hard or soft tissue patented Omni Tip™ Plastic Generator Probes (7mm x 110mm), tool kit and a convenient storage case. The perfect solution for a small laboratory, this kit is cost effective and will handle a wide range of applications for multiple users.

- Ideal for PCR, RNA, and DNA sample preparation along with environmental, pharmaceutical, microbiological research and soft or hard (frozen) tissue analysis
- Omni Tips™ are economical and can be disposed of after use or autoclaved up to 7 times
- No need to order multiple items, everything is contained in one package
- Omni TH Motor has a variable speed controller that allows for speeds of 5,000 to 35,000 rpm
- Kits are also available with stainless steel generator probes for more fibrous/tough samples



Omni Tip Kit

Each Kit includes Omni Tissue Homogenizer (TH), Omni Tip Adapter, Deaggregation or Hard Tissue Omni Tips™ (7mm x 110mm), storage case, tool kit, and manual. Kits are also available with Stainless Steel probes.

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
115 volt Omni Tip Kit with 6 Soft & 6 Hard Tissue Tips	TH115-PCR
220 volt Omni Tip Kit with 6 Soft & 6 Hard Tissue Tips	TH220-PCR

*See page 7 for additional Omni TH accessories



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Omni Tip Kit with 12 Soft Tissue Omni Tip Probes

For processing liquids, soft tissues, and samples that require gentle processing.



<u>PRODUCT DESCRIPTION</u>	<u>115 volt ORDER #</u>	<u>220 volt ORDER #</u>
Soft Tissue Omni Tip Kit	TH115-PCRD	TH220-PCRD
Soft Tissue Omni Tip Kit with 5x75mm Stainless Steel Generator Probe [G5-75]	TH115-PCR5D	TH220-PCR5D
Soft Tissue Omni Tip Kit with 7x95mm Stainless Steel Generator Probe [G7-95]	TH115-PCR7D	TH220-PCR7D
Soft Tissue Omni Tip Kit with 10x95mm Stainless Steel Generator Probe [G10-95]	TH115-PCR10D	TH220-PCR10D

Omni Tip Kit with 12 Hard Tissue Omni Tip Probes

For processing hard or frozen tissue samples.



<u>PRODUCT DESCRIPTION</u>	<u>115 volt ORDER #</u>	<u>220 volt ORDER #</u>
Hard Tissue Omni Tip Kit	TH115-PCRH	TH220-PCRH
Hard Tissue Omni Tip Kit with 5x75mm Stainless Steel Generator Probe [G5-75]	TH115-PCR5H	TH220-PCR5H
Hard Tissue Omni Tip Kit with 7x95mm Stainless Steel Generator Probe [G7-95ST]	TH115-PCR7H	TH220-PCR7H
Hard Tissue Omni Tip Kit with 10x95mm Stainless Steel Generator Probe [G10-95]	TH115-PCR10H	TH220-PCR10H

OMNI TH_Q: TISSUE HOMOGENIZER

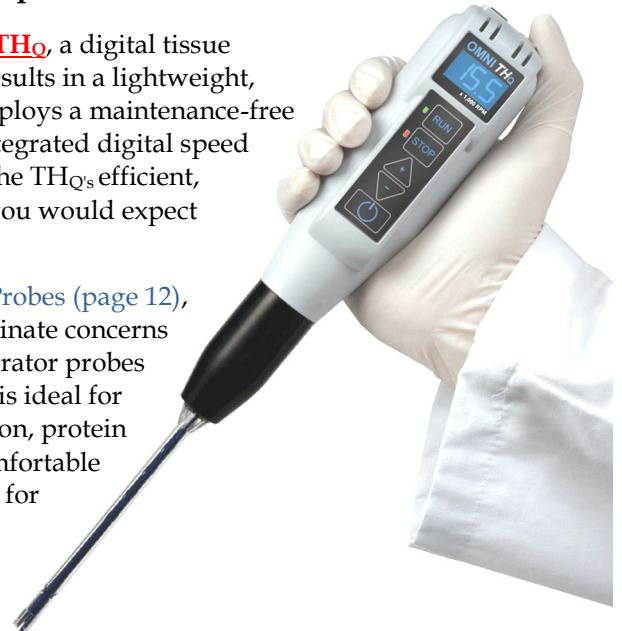
Hand Held or Post Mountable Digital Homogenizer

Processing Range with Omni Tips: 0.25mL-30mL

Processing Range with stainless steel probes: <0.20mL-100mL

Homogenize more reliably & more comfortably with the **Omni TH_Q**, a digital tissue homogenizer that provides extremely accurate and repeatable results in a lightweight, hand-held design. Omni's new Whisper Drive Technology™ employs a maintenance-free brushless motor that is both ultra-quiet and ultra-reliable. An integrated digital speed display ensures consistent results for a variety of applications. The TH_Q's efficient, energy saving motor provides the same powerful performance you would expect from an Omni homogenizer.

The TH_Q operates with patented **Omni Tip™ Plastic Generator Probes** (page 12), available in both soft tissue and hard tissue versions, which eliminate concerns about cross-contamination between samples. Stainless steel generator probes are also available for larger and tougher sample types. The TH_Q is ideal for tissue homogenization, emulsions and suspensions, cell disruption, protein extraction and medical research. The TH_Q is lightweight and comfortable enough to be hand-held and may also be mounted to a lab stand for lengthier processing.



Product Features:

- Energy efficient 20 watt motor
- Integrated Digital Speed Display & Control for accurate, repeatable results (8,000-35,000 rpm)
- Whisper Drive Technology™ ensures ultra-quiet operation (<68db)
- Processing range from <0.20mL-100mL
- Ergonomic handheld design or can be post mounted
- Three-Year Motor Warranty
- CE Approved

Omni TH_Q Digital Tissue Homogenizer Kit

Includes: TH_Q motor, 3-year motor warranty, stand clamp, 6 Soft Tissue & 6 Hard Tissue Omni Tip™ Plastic Probes, tool kit, instruction manual and storage case. Kits are also available with Stainless Steel probes.

<u>PRODUCT DESCRIPTION</u>	<u>115 volt ORDER #</u>	<u>220 volt ORDER #</u>
Omni TH _Q Kit	12-200	12-200-220
Omni TH _Q Kit with 5x75mm Stainless Steel Generator Probe [B5-075]	12-200-05	12-200-220-05
Omni TH _Q Kit with 7x110mm Stainless Steel Generator Probe [B7-110ST]	12-200-07	12-200-220-07
Omni TH _Q Kit with 10x110mm Stainless Steel Generator Probe [B10-110ST]	12-200-10	12-200-220-10



Stainless Steel Homogenizer Probes

These probes are ideal for larger sample volume, larger initial sample tissue size, and tougher tissue types. Stainless Steel Probes are also resistant to most organic solvents commonly used during homogenization.

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
5mmx75mm Stainless Steel Probe	B5-075
7mmx110mm Stainless Steel Probe	B7-110ST
10mmx110mm Stainless Steel Probe	B10-110ST



Motor Stand Assembly

19" tall with a 5" x 8" stainless steel base plate.
Stand and Motor sold separately.

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
Optional Motor Stand Assembly For post mounted operation.	S1000

*See Page 12 for Omni Tip™ Plastic Probes

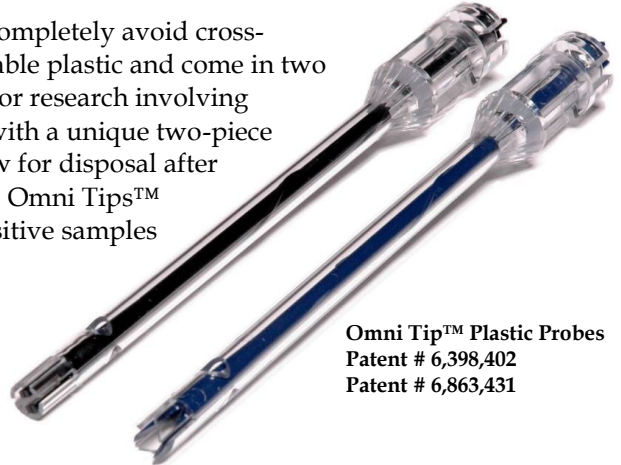


OMNI TIP™ PLASTIC HOMOGENIZER PROBES

OMNI TIP™ PLASTIC HOMOGENIZER PROBES

Processing Range: 0.25mL-30mL • 7mm (Diameter) x 110mm (Length)

Patented Omni Tip™ Plastic Generator Probes are designed to completely avoid cross-contamination between samples. They are engineered from a durable plastic and come in two different configurations for soft tissue and hard tissue. Designed for research involving critical samples at very small volumes, they prevent sample loss with a unique two-piece design and the clear stator tube. These tips are economical to allow for disposal after each use or they can be cleaned and autoclaved up to seven times. Omni Tips™ offer a cost effective solution for customers processing highly sensitive samples where contaminants can affect test results.



Omni Tip™ Plastic Probes
Patent # 6,398,402
Patent # 6,863,431

Product Features:

- Eliminate cross-contamination by disposal after use
- Ideal for PCR, DNA, and RNA blot analysis
- Reusable and autoclavable up to 7 times (at 250°F/121°C)
- Simple two piece construction for very easy cleaning
- Clear stator tube assures that valuable sample is not trapped or lost in probe
- 80% less protein residue after cleaning than with stainless steel generator probes
- Fraction of the cost of stainless steel generator probes
- Ideal and cost effective for processing multiple samples
- Compatible with TH, TH_Q, GLH, PDH, and Omni Prep homogenizers

Omni Deaggregation Tips (7mm diameter x 110mm Length)

For processing liquids, soft tissues, and samples that require gentle processing.



<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
25 Omni Deaggregation Tips	30750
50 Omni Deaggregation Tips	32750
100 Omni Deaggregation Tips	34750
500 Omni Deaggregation Tips	35750

Omni Hard Tissue Tips (7mm diameter x 110mm Length)

For processing hard or frozen tissue samples.



<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
25 Omni Hard Tissue Tips	30750H
50 Omni Hard Tissue Tips	32750H
100 Omni Hard Tissue Tips	34750H
500 Omni Hard Tissue Tips	35750H



Omni Tip Adapter

Required when using Omni Tips with the Omni TH, GLH, and PDH Homogenizers

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
Omni Tip Adapter	A1000SB



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OMNI TIP™ PLASTIC HOMOGENIZER PROBES



7mm Omni Tip Hybrid Probes

The **Omni Tip Hybrid Probes** combine the convenience of disposable plastic probes with the durability of traditional stainless steel probes. Hybrid probes are made up of an outer stainless steel tube with an inner Ultem plastic shaft. The plastic shafts can either be disposed of after use or cleaned and reused multiple times. The simple two-piece design makes these probes much easier to clean and disassemble than traditional stainless steel probes.

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
7mmx110mm Hybrid Probe	22-007
7mmx110mm Hybrid Probes (6 Pack)	22-007-6
Replacement Shafts (25 Pack)	301725HT

Sealed Conical and Flat Bottom Tubes - Omni Tips not included



<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
15mL Plastic Conical Bottom Tubes with Sealed Caps (25 Pack)	00-2015-25
50mL Plastic Conical Bottom Tubes with Sealed Caps (25 Pack)	00-2050-25
4mL Glass Flat Bottom Tubes with Sealed Caps (25 Pack)	00-2004-25
8mL Glass Flat Bottom Tubes with Sealed Caps (25 Pack)	00-2008-25

Note: Sealed tubes are designed as a secondary means of protection. Always use appropriate measures when processing pathogens.



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OMNI GLH GENERAL LAB HOMOGENIZER

OMNI GLH: GENERAL LAB HOMOGENIZER

Versatile Hand Held or Post Mountable Homogenizer
Processing Range: <0.20mL-10L

The **Omni GLH** is a powerful, versatile, and durable homogenizer that can handle virtually any processing application. Its high power motor can handle even the toughest tissue samples, and emulsions and dispersions are quickly and easily completed. The Omni GLH is compatible with stainless steel generator probes and **Omni Tip™ Plastic Probes** (page 12). It has a processing range of <0.20mL to 10 liters, which makes it one of the most flexible Homogenizers available. It can be hand-held or post mounted for lengthier processing.



Product Features:

- Variable motor speed control from 5,000 to 28,000 rpm
- Compatible with 5, 7, 10, 20, 32 and 35mm diameter generator probes
- Process sample volumes of <0.20mL to 10L
- Powerful 700 watt motor
- On/Off switch for repeatable speed settings
- Optional external remote speed controller available
- Optional motor stand assembly available
- Quiet operation, under 72db.
- ¼ turn bayonet probe mounting system for quick connection and release of generator probes
- CE approved

Includes 700 watt motor, 1-year motor warranty, tool kit and instruction manual.
*Omni Tips™ and Stainless Steel Generator Probes sold separately.**

Omni GLH, General Lab Homogenizer

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
115 volt Omni GLH: General Lab Homogenizer (motor only)	GLH-115
220 volt Omni GLH: General Lab Homogenizer (motor only)	GLH-220



Complete GLH Package

Includes:

- GLH Motor
- 3 Stainless Steel Generator Probes
(10x195mm saw tooth, 20x195mm saw tooth, 35x195mm flat bottom)
- Motor Stand Assembly

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
115 volt Complete GLH Package	GLHP-115
220 volt Complete GLH Package	GLHP-220



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Phone: 1-800-776-4431

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Fax: 1-770-421-0206



External Speed Control

Allows for remote control of speeds from 0 to 28,000 rpm.

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
115V GLH External Speed Control	SC115
220V GLH External Speed Control	SC220



Vessel Restraint Disk

The Vessel Restraint Disk can be used to help reduce splashing and contain aerosols during homogenization. This accessory is compatible with 20mm and larger diameter rotor-stator generator probes and with containers up to six inches in diameter. It also helps secure the container during processing.

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
Vessel Restraint Disk	LT-750



Motor Stand Assembly

19" tall with a 5" x 8" stainless steel base plate.
Stand and Motor sold separately.

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
Optional Motor Stand Assembly For post mounted operation.	S1000
Optional Cross Rod For mounting motor to any ring stand.	S0040

*See Page 12 for Omni Tip™ Plastic Probes
 See Page 17 for Stainless Steel Generator Probes

OMNI PDH: PROGRAMMABLE DIGITAL HOMOGENIZER

Processing Range: <0.20mL-10L

The **Omni PDH** is a programmable 700 watt motor unit, ideal for a wide range of applications. The digital speed display allows for additional reproducibility and ease of use.

Product Features:

- Compatible with EZ Connect Accessories & Omni Tip™ plastic probes
- Powerful 700 watt motor
- Ideal for lab automation, pilot scale or small batch applications
- Speed control from 1,000 to 28,000 rpm maintains constant speed over wide operating range for accurate (+/-1/2%) repeatability
- Store up to 12 complex programs with multiple speed, time, and ramp functions
- Optional RS-232 computer interface and windows program
- 32 digit alpha numeric display
- 1-year motor warranty
- Movable platform stand
- Quiet 68 db operation at maximum speed
- CE approved



Includes 700 watt motor with variable speeds, 1-year motor warranty, motor stand assembly, tool kit and instruction manual. Generator Probes sold separately.*

Omni PDH, Programmable Digital Homogenizer



<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
115 volt Omni PDH Homogenizer	PDH-115
220 volt Omni PDH Homogenizer	PDH-220
115 volt Complete PDH Package Includes PDH & 3 Generator Probes (10mm X 195mm saw tooth, 20mm X 195mm saw tooth, 35mm X 195mm flat)	PDHP-115
220 volt Complete PDH Package Includes PDH & 3 Generator Probes (10mm X 195mm saw tooth, 20mm X 195mm saw tooth, 35mm X 195mm flat)	PDHP-220

*See Page 17 for Stainless Steel Generator Probes
Sealed Chamber Assemblies are available for the PDH as special order items.



GENERATOR PROBES FOR OMNI GLH, & PDH HOMOGENIZERS

STAINLESS STEEL GENERATOR PROBES

For Omni GLH & PDH Homogenizers



	PROCESSING RANGE	RECOMMENDED VESSEL SIZE	LENGTH	TYPE	RESULTING PARTICLE SIZE	ORDER NUMBER
5mm Diameter	<0.20mL-5mL	Vessel with minimum inner diameter of 6mm	75mm	Flat Bottom	Fine	G5-75
			75mm	Flat Bottom – Wide Window	Coarse	G5-75W
7mm Diameter	0.25mL-30mL	Vessel with minimum inner diameter of 8mm	95mm	Flat Bottom	Fine	G7-95
			95mm	Flat Bottom – Wide Window	Coarse	G7-95W
			95mm	Saw Tooth	Fine	G7-95ST
			95mm	Saw Tooth – Wide Window	Coarse	G7-95STW
			195mm	Flat Bottom	Fine	G7-195
			195mm	Flat Bottom – Wide Window	Coarse	G7-195W
			195mm	Saw Tooth	Fine	G7-195ST
			195mm	Saw Tooth – Wide Window	Coarse	G7-195STW
10mm Diameter	1.5mL-100mL	Vessel with minimum inner diameter of 12.5mm	95mm	Saw Tooth	Fine	G10-95
			95mm	Saw Tooth – Wide Window	Coarse	G10-95W
			195mm	Saw Tooth	Fine	G10-195
			195mm	Saw Tooth – Wide Window	Coarse	G10-195W
20mm Diameter	50mL-2L	Vessel with minimum inner diameter of 22mm	195mm	Saw Tooth	Fine	G20-195ST*
			195mm	Saw Tooth – Wide Window	Coarse	G20-195STW*
32mm Diameter	75mL-10L	Vessel with minimum inner diameter of 35mm	195mm	Tablet Processing	Tablet Processing	G-32TT-195*
35mm Diameter	75mL-10L	Vessel with minimum inner diameter of 37mm	195mm	Flat Bottom	Fine	G-35NA-195*
			195mm	Flat Bottom – Wide Window	Coarse	G-35WA-195*

ORDER #T1001	Disassembly Tool Kit. For use with generator probes listed above.	\$51.00
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*For use with GLH and PDH only.
All generator probes are available in Titanium and custom sizes. Call for pricing.



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OMNI MIXER HIGH POWER HOMOGENIZER

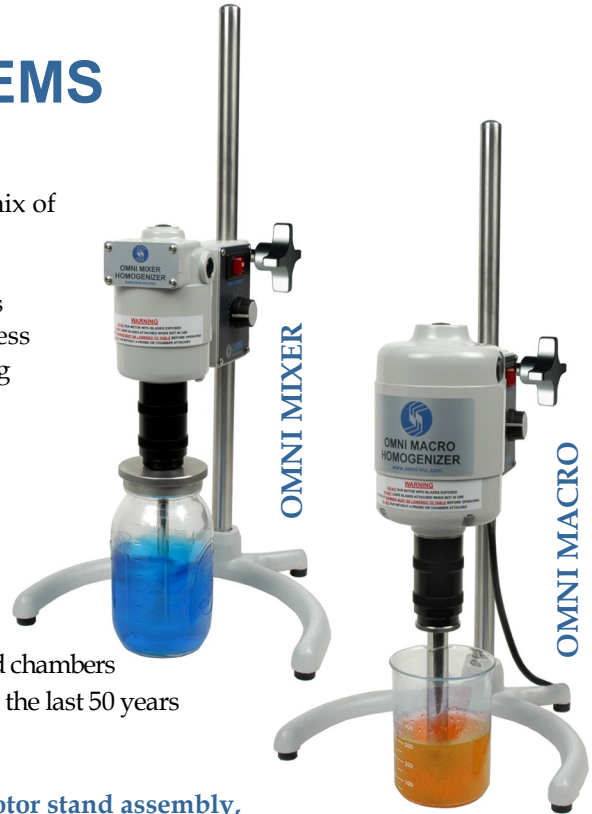
OMNI MIXER HOMOGENIZING SYSTEMS

Processing Range: 0.25mL-30L

Omni Mixer and **Omni Macro** Homogenizers offer the perfect mix of dependability, versatility and power. Aerosol-safety sealed containers are available in a variety of materials (stainless steel, glass, plastic). Interchangeable blades and rotor-stator generators process a wide range of samples within the same container. Process sample volumes ranging from 0.25mL to 30L with speeds ranging from 500 to 20,000 rpm.

Product Features:

- 3-year motor warranty
- Powerful 600 or 1,800 watt motor choice
- Variable speed control 500 to 20,000 rpm
- Quiet operation
- On/Off switch for repeatable speed settings
- Accessories include generator probes, cutting blades, and sealed chambers
- Accessories are compatible with all Omni Mixers built within the last 50 years
- CE approved



Includes motor with variable speeds, 3-year motor warranty, motor stand assembly, generator probe adapter, tool kit and instruction manual.

*Aerosol Sealed Chambers and Generator Probes sold separately.**



Omni Mixer Homogenizer

- 600 watt motor with variable speeds from 500 to 18,000 rpm
- For processing 0.25mL-10L

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
115 volt Omni Mixer Homogenizer	17105
220 volt Omni Mixer Homogenizer	17106



Omni Macro Homogenizer

- 1,800 watt motor with variable speeds from 1,000 to 20,000 rpm
- For processing 0.25mL-30L

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
115 volt Omni Macro Homogenizer	17505
220 volt Omni Macro Homogenizer	17506

*See Page 21 for Stainless Steel Generator Probes
See Page 22-24 for Aerosol Sealed Chamber Assemblies



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OMNI MIXER HIGH POWER HOMOGENIZER

17215



Quick Connect (QC) Coupling Assembly for Omni Mixer, Macro, Macro ES

The Quick Connect Assembly makes the Omni Mixer homogenizers even more convenient to use. It comes standard on the Omni Macro-ES. To use, attach a Quick Connect Adapter to your chamber assembly or generator probe. Next, slide the Adapter into the Quick Connect Coupling and a retaining ring positions into place for a secure hold. To disconnect, simply slide the ring upward and the processing accessory is conveniently released.

17210



<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
Quick Connect Kit (Includes QC Assembly and 3 QC Adapters)	17215
Quick Connect Coupling (Requires one per motor unit)	17210
Quick Connect Adapter (Requires one per generator or accessory)	17204

17204



Vessel Restraint Disk

The Vessel Restraint Disk can be used to help reduce splashing and contain aerosols during homogenization. This accessory is compatible with 20mm and larger diameter rotor-stator generator probes and with containers up to six inches in diameter. It also helps secure the container during processing.

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
Vessel Restraint Disk	LT-750

*See Page 21 for Stainless Steel Generator Probes
See Page 22-24 for Aerosol Sealed Chamber Assemblies



OMNI MACRO-ES PROGRAMMABLE HOMOGENIZER

OMNI MACRO-ES HOMOGENIZER

Processing Range: 0.25mL-30L

The **Omni Macro-ES** Homogenizer is a programmable, 1,800 watt motor unit. It offers the perfect mix of programmability, versatility, and power. The digital speed display allows for additional reproducibility.

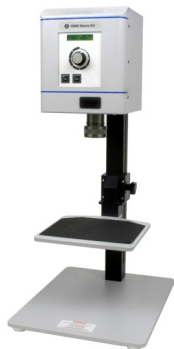
Product Features:

- Compatible with all Omni Mixer Accessories
- Powerful 1,800 watt motor
- Quick Connect coupling assembly included
- Ideal for lab automation, pilot scale or small batch applications
- Speed control from 1,000 to 20,000 rpm maintains constant speed over wide operating range for accurate (+/-1/2%) repeatability
- Accessories include generator probes, cutting blades, and sealed chambers
- Optional RS-232 computer interface and windows program
- Store up to 12 complex programs with multiple speed, time, and ramp functions
- 32 digit alpha numeric display
- 3-year motor warranty
- Movable platform stand
- Quiet 68 db operation at maximum speed
- CE approved



Includes 1,800 watt motor with variable speeds, 3-year motor warranty, motor stand assembly, Quick Connect coupling assembly, 2 Quick Connect Adapters, generator probe adapter, tool kit and instruction manual. Chamber Assemblies and Generator Probes sold separately.*

Omni Macro-ES Homogenizer



<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
115 volt Omni Macro-ES Homogenizer	MES-115
220 volt Omni Macro-ES Homogenizer	MES-220
115 volt Complete MES Package Includes MES & 3 Generator Probes (20mm X 195mm saw tooth, 35mm X 195mm flat, 45mm X 195mm flat)	MESP-115
220 volt Complete MES Package Includes MES & 3 Generator Probes (20mm X 195mm saw tooth, 35mm X 195mm flat, 45mm X 195mm flat)	MESP-220

*See Page 21 for Stainless Steel Generator Probes
See Page 22-24 for Aerosol Sealed Chamber Assemblies



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GENERATOR PROBES FOR OMNI MIXER, MACRO & MACRO-ES HOMOGENIZERS

STAINLESS STEEL GENERATOR PROBES

For Omni MIXER, MACRO & MACRO-ES Homogenizers



	PROCESSING RANGE	RECOMMENDED VESSEL SIZE	LENGTH	TYPE	RESULTING PARTICLE SIZE	ORDER NUMBER
7mm Diameter	0.25mL-30mL	Vessel with minimum Inner diameter of 8mm	95mm	Flat Bottom	Fine	15007
			95mm	Flat Bottom – Wide Window	Coarse	15007W
			95mm	Saw Tooth Bottom	Fine	15007ST
			95mm	Saw Tooth – Wide Window	Coarse	15007STW
			195mm	Flat Bottom	Fine	15007L
			195mm	Flat Bottom – Wide Window	Coarse	15007LW
			195mm	Saw Tooth	Fine	15007LST
			195mm	Saw Tooth – Wide Window	Coarse	15007LSTW
10mm Diameter	1.5mL-100mL	Vessel with minimum inner diameter of 12.5mm	95mm	Saw Tooth	Fine	15051
			95mm	Saw Tooth – Wide Window	Coarse	15051W
			195mm	Saw Tooth	Fine	15010
			195mm	Saw Tooth – Wide Window	Coarse	15010W
20mm Diameter	50mL-2L	Vessel with minimum inner diameter of 22mm	100mm	Saw Tooth	Fine	15201
			100mm	Saw Tooth – Wide Window	Coarse	15201W
			145mm	Saw Tooth	Fine	15401
			145mm	Saw Tooth – Wide Window	Coarse	15401W
			195mm	Saw Tooth	Fine	15020
			195mm	Saw Tooth – Wide Window	Coarse	15020W
32mm Diameter	75mL-10L	Vessel with minimum inner diameter of 35mm	195mm	Tablet Processing	Tablet Processing	150-32TT-195
35mm Diameter	75mL-10L	Vessel with minimum inner diameter of 37mm	195mm	Flat Bottom	Fine	150-35NA-195
			195mm	Flat Bottom – Wide Window	Coarse	150-35WA-195
45mm Diameter	200mL-25L	Vessel with minimum inner diameter of 47mm	195mm	Flat Bottom	Fine	150-45NA-195*
			195mm	Flat Bottom – Wide Window	Coarse	150-45WA-195*
55mm Diameter	300mL-30L	Vessel with minimum inner diameter of 57mm	195mm	Flat Bottom	Fine	150-55NA-195*
			195mm	Flat Bottom – Wide Window	Coarse	150-55WA-195*

Generator Probe Adapter (One adapter is included with each motor).

ORDER #15001

Disassembly Tool Kit – For use with generator probes listed above.

ORDER #17104

*For use with Omni Macro and Omni Macro-ES only

All generator probes are available in Titanium and custom sizes. Call for pricing.



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Phone: 1-800-776-4431

AEROSOL SEALED STAINLESS STEEL CHAMBER ASSEMBLIES

For Omni MIXER, MACRO, & MACRO-ES Homogenizers

Product Features:

- Fluted to enhance flow
- Polished interior to facilitate cleaning
- Available in Titanium



50mL



200mL



400mL

50mL Sealed Stainless Steel Chamber Assembly (Recommended operating capacity: 25mL – 60mL)

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
w/ Teflon Bearings and 1 Inch Cutting Blade	17077
w/ Oilite Bearings and 1 Inch Cutting Blade	17061
w/ 10mm diameter generator probe for fine to medium particle sizes	15050
w/ 10mm diameter generator probe for medium to course particle sizes	15050W

200mL Sealed Stainless Steel Chamber Assembly (Recommended operating capacity: 90mL – 300mL)

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
w/ Teflon Bearings and 2 Inch Cutting Blade	17078
w/ Oilite Bearings and 2 Inch Cutting Blade	17062
w/ 20mm diameter generator probe for fine to medium particle sizes	15200
w/ 20mm diameter generator probe for medium to coarse particle sizes	15200W

400mL Sealed Stainless Steel Chamber Assembly (Recommended operating capacity: 100mL – 450mL)

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
w/ Teflon Bearings and 2 Inch Cutting Blade	17079
w/ Oilite Bearings and 2 Inch Cutting Blade	17063
w/ 20mm diameter generator probe for fine to medium particle sizes	15400
w/ 20mm diameter generator probe for medium to coarse particle sizes	15400W

Custom configurations are also available. Call for pricing.

Note: Sealed chambers assemblies are a secondary means of protection. Always use the appropriate safety measures when processing pathogens.

AEROSOL SEALED GLASS CHAMBER ASSEMBLIES

For Omni MIXER, MACRO, & MACRO-ES Homogenizers

Product Features:

- Allows you to view sample while processing



50mL Sealed Glass Chamber Assembly (Recommended operating capacity: 15mL – 40mL)

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
w/ Teflon Bearings and 1 Inch Cutting Blade	17064
w/ 10mm diameter generator probe for fine to medium particle sizes	15064
w/ 10mm diameter generator probe for medium to coarse particle sizes	15064W

200mL Sealed Glass Chamber Assembly (Recommended operating capacity: 50mL – 150mL)

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
w/ Teflon Bearings and 1 Inch Cutting Blade	17088
w/ 20mm diameter generator probe for fine to medium particle sizes	15088
w/ 20mm diameter generator probe for medium to coarse particle sizes	15088W

473mL Sealed Glass Chamber Assembly (Recommended operating capacity: 150mL – 350mL)

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
w/ Teflon Bearings and 2 Inch Cutting Blade	17080
w/ Oilite Bearings and 2 Inch Cutting Blade	17083
w/ 20mm diameter generator probe for fine to medium particle sizes	15080
w/ 20mm diameter generator probe for medium to coarse particle sizes	15080W

946mL Sealed Glass Chamber Assembly (Recommended operating capacity: 200mL – 650mL)

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
w/ Teflon Bearings and 2 Inch Cutting Blade	17081
w/ Oilite Bearings and 2 Inch Cutting Blade	17084
w/ 20mm diameter generator probe for fine to medium particle sizes	15081
w/ 20mm diameter generator probe for medium to coarse particle sizes	15081W

Note: Sealed chambers assemblies are a secondary means of protection. Always use the appropriate safety measures when processing pathogens.

AEROSOL SEALED PLASTIC CHAMBER ASSEMBLIES

For Omni MIXER, MACRO, & MACRO-ES Homogenizers

Product Features:

- Economical chambers are virtually unbreakable.



50mL



250mL



473mL



946mL



1892mL

50mL Sealed Polycarbonate Chamber Assembly (Recommended operating capacity: 15mL – 40mL)

PRODUCT DESCRIPTION

ORDER #

w/ Teflon Bearings and 1 Inch Cutting Blade

17076

w/ 10mm diameter generator probe for fine to medium particle sizes

15076

w/ 10mm diameter generator probe for medium to coarse particle sizes

15076W

250mL Sealed Polypropylene Chamber Assembly (Recommended operating capacity: 50mL – 150mL)

PRODUCT DESCRIPTION

ORDER #

w/ Teflon Bearings and 1 Inch Cutting Blade

17089

w/ 20mm diameter generator probe for fine to medium particle sizes

15089

w/ 20mm diameter generator probe for medium to coarse particle sizes

15089W

473mL Sealed Polypropylene Chamber Assembly (Recommended operating capacity: 150mL – 350mL)

PRODUCT DESCRIPTION

ORDER #

w/ Teflon Bearings and 2 Inch Cutting Blade

17065

w/ 20mm diameter generator probe for fine to medium particle sizes

15065

w/ 20mm diameter generator probe for medium to coarse particle sizes

15065W

946mL Sealed Polypropylene Chamber Assembly (Recommended operating capacity: 200mL – 650mL)

PRODUCT DESCRIPTION

ORDER #

w/ Teflon Bearings and 2 Inch Cutting Blade

17097

w/ 20mm diameter generator probe for fine to medium particle sizes

15097

w/ 20mm diameter generator probe for medium to coarse particle sizes

15097W

1892mL Sealed Polypropylene Chamber Assembly (Recommended operating capacity: 300mL – 1,200mL)

PRODUCT DESCRIPTION

ORDER #

w/ Teflon Bearings and 2 Inch Cutting Blade

17098

w/ 20mm diameter generator probe for fine to medium particle sizes

15098

w/ 20mm diameter generator probe for medium to coarse particle sizes

15098W

Note: Sealed chambers assemblies are a secondary means of protection. Always use the appropriate safety measures when processing pathogens.



ULTRASONIC CELL DISRUPTORS

Ultrasonic Homogenizers are recommended for laboratory samples that do not require traditional grinding or rotor-stator cutting techniques for processing. Small and large ultrasonic probes are available to allow for a variety of sample volumes to be processed. Ultrasonic probes are made of chemical resistant solid titanium. A solid probe allows for less chance of sample loss and cross-contamination between samples. Not sure which configuration will work best for your application? Contact our technical support team at 1-800-776-4431.



Omni Sonic Ruptor

- Auto tuning for convenience and optimal efficiency of sample processing
- Processing range of 500 μ L – 1L
- Powerful 250 or 400 watt models for a wide range of samples

**Sonic
Ruptor
P.26**

Omni Sonic Ruptor 4000

- Auto tuning for convenience and optimal efficiency
- Processing range of 0.25mL – 1L
- Powerful 400 watt models for a wide range of samples
- Integrated Sound Control Chamber

**Sonic
Ruptor
4000
P. 27**



OMNI SONIC RUPTOR ULTRASONIC HOMOGENIZERS

OMNI SONIC RUPTOR ULTRASONIC HOMOGENIZERS

250 or 400 Watt Max Power (20kHz System)
Processing Range: 500 μ L-1L

The **Omni Sonic Ruptor 250 & 400 Ultrasonic Homogenizers** offer precision engineering with all the features necessary to create a total system for ultrasonic disruption. They can disintegrate most cells, bacteria, spore or tissue. The Omni Sonic Ruptor can prepare an emulsion down to 1/100 of a micron, homogenize "immiscible" liquids, accelerate enzymatic and chemical reactions, stimulate bacterial activity, disperse solids in liquids and degas liquids.

Product Features:

- Variable power supply
- Auto-tuning for optimal processing efficiency
- Power-emitted display for accuracy and repeatability
- 0-15 minute timer
- Tips compatible with most 20kHz systems
- Pulse mode for sensitive samples
- Includes stand to hold generator
- Two-year control unit warranty



Includes 250 or 400 watt control unit and transducer with variable power output, stand, 2-year warranty, tool kit and instruction manual.
*Tips and Accessories sold separately.**



Omni Sonic Ruptor Ultrasonic Homogenizers (250 watt or 400 watt)

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
115 volt Omni Sonic Ruptor 250 Homogenizer	OR250-115
220 volt Omni Sonic Ruptor 250 Homogenizer	OR250-220
115 volt Omni Sonic Ruptor 400 Homogenizer	OR400-115
220 volt Omni Sonic Ruptor 400 Homogenizer	OR400-220



Sound Abatement Chamber

The Sound Abatement Chamber contains much of the cavitation sound emitted by the Omni Sonic Ruptor 250 and 400 during processing. This product is recommended for applications that require extended operation. A clear Plexiglas door permits viewing of the sample while protecting the operator against accidental splashing.

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
Sound Abatement Chamber	OR-A-01

*See Page 28 for Omni Sonic Ruptor Accessories



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E-Mail: omni@omni-inc.com
Fax: 1-770-421-0206



OMNI SONIC RUPTOR ULTRASONIC HOMOGENIZERS

OMNI SONIC RUPTOR 4000 ULTRASONIC HOMOGENIZER

400 Watt Max Power (20kHz System)
Processing Range: 500µL-1L

The **Omni Sonic Ruptor 4000 Ultrasonic Homogenizer** has an integrated Sound Control Chamber to contain much of the cavitation sound emitted during processing. It offers precision engineering with all the features necessary to create a total system for ultrasonic disruption. The Omni Sonic Ruptor can disintegrate most cells, bacteria, spore or tissue. It can also prepare an emulsion down to 1/100 of a micron, homogenize "immiscible" liquids, accelerate enzymatic and chemical reactions, stimulate bacterial activity, disperse solids in liquids and degas liquids.

Product Features:

- **Integrated Sound Abating Chamber with Clear Plexiglas Door**
- Maximum power ultrasonic homogenizer
- Auto-tuning for optimal processing efficiency
- Power-emitted display for accuracy and repeatability
- 0-15 minute timer
- Tips compatible with most 20kHz systems
- Pulse mode for sensitive samples
- Two-year control unit warranty

Includes 400 watt control unit and integrated Sound Control Chamber with variable power output, 2-year warranty, tool kit and instruction manual.
*Tips sold separately.**



Omni Sonic Ruptor 4000 Ultrasonic Homogenizer

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
115 volt Omni Sonic Ruptor 4000 Homogenizer	OR4000-115
220 volt Omni Sonic Ruptor 4000 Homogenizer	OR4000-220

*See Page 28 for Omni Sonic Ruptor Accessories



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Solid Titanium Tips

All Solid Tips are of a single-piece design. These tips are required when processing samples with high surface tension. Includes a package of Five Interface Washers.



ORDER #	PRODUCT DESCRIPTION	INTENSITY	TIP SIZE	VOLUME RANGE
OR-T-156	Stepped Micro Processing Tip	Very High Intensity	Diameter: 5/32" (3.8mm) Length: 10.1" (25.6cm)	250µL-10mL
OR-T-375	Intermediate Processing Tip	High Intensity	Diameter: 3/8" (9.5mm) Length: 8.6" (21.8cm)	10mL-250mL
OR-T-500	1/2" Processing Tip	Medium-High Intensity	Diameter: 1/2" (12.7mm) Length: 5.38" (13.65cm)	10mL-300mL
OR-T-750	Standard Processing Tip	Medium Intensity	Diameter: 3/4" (19mm) Length: 4.1" (10.5cm)	25mL-500mL
OR-T-1000	Full Size Processing Tip	Low Intensity	Diameter: 1" (25.4mm) Length: 4.85" (12.3cm)	50mL-1L



250mL Cup Tip

The 250mL cup tip consists of a solid titanium rod of 2" diameter with a 250mL cavity machined into one end. The cup tip acts as a small-batch, closed system. High intensity processing. *The Microtube Tray is required for use with the cup tip.* Holds up to 8 micro tubes.

PRODUCT DESCRIPTION	ORDER #
250mL Cup Tip	OR-C-250
Microtube Tray for OR-C-250	OR-C-250-T



Continuous Flow Chamber

The Continuous Flow Chamber is designed for continuous processing of liquids and for emulsifying and homogenizing applications. The chamber may be sealed in a closed system so that infectious material can be safely processed. The water flow-through jacket maintains sample temperature at a desired level. *Requires OR-T-750 tip.*

PRODUCT DESCRIPTION	ORDER #
Continuous Flow Chamber	OR-F-01

MULTI-SAMPLE HOMOGENIZERS

Multi-Sample Homogenizers are extremely convenient for laboratory researchers who are processing a large number of similar samples. These systems allow for many lab samples to be homogenized simultaneously reducing labor intensive single sample processing. Microprocessor controls allow for recipe/protocol input ensuring repeatability for future cycles. Features such as disposable probes and homogenizing vessels also reduce or eliminate the risk of cross-contamination. Not sure which configuration will work best for your application? Contact our technical support team at 1-800-776-4431.



Omni Prep

- 6 sample simultaneous processing
- Operates with plastic or stainless steel generator probes
- Micro-processor control for consistent processing
- Processing range: 0.25mL – 30mL

**Omni
Prep
P. 30**



Omni Bead Ruptor 24

- 24 sample simultaneous processing
- No cool-down between runs
- Unique temperature monitoring system
- Processing range: 25µL – 5mL

**Bead
Ruptor 24
P. 33**



Omni LH96

- Process up to 96 samples per cycle
- Fully automated homogenizer and liquid handling
- Auto transfer from sample tubes to 96 well format
- Integrated bar coding and sample weighing

**Omni
LH96
P. 38**

OMNI PREP MULTI-SAMPLE HOMOGENIZER

Processing Range: 0.25mL-30mL

The innovative **Omni Prep Multi-Sample Homogenizer** is specifically designed to streamline the labor and time intensive homogenization process and to make it more comfortable for the user. It features our new **Whisper Drive Technology™** – a brushless motor that is virtually maintenance free, is ultra quiet during operation, and uses about 10% of the power required to process 6 samples individually. Unlike brush motors, Whisper Drive Technology guarantees accuracy and repeatability, since the motor holds it's processing speed to +/- 1% accuracy throughout the homogenization cycle, regardless of fluctuations in sample size or sample viscosity.

A specially designed oscillating sample rack holds up to 6 tubes from 1.5mL to 50mL in size. Microprocessor control allows the user to program time (to 10 minutes) and speed (500 - 30,000 rpm). Sample volumes of 0.25mL to 30mL can be homogenized using 5, 7 or 10mm stainless steel generator probes or with **Omni Tip™ Plastic Homogenizer Probes**. Omni Tips can completely eliminate cross-contamination as well as the time consuming cleaning step associated with use of stainless steel generator probes. Omni Tips™ are so tough they can homogenize frozen tissue and may be disposed of, reused, or autoclaved.



Product Features:

- Process 6 samples per cycle and up to 250 samples per hour
- Utilizes Omni Tip™ Plastic Probes
- Special Stainless Steel generator probes are also available
- Microprocessor controlled with 3 stored programs for time & speed
- Speed Control from 500 to 30,000 rpm
- Process most samples in less than 1 minute
- Positive airflow that can be exhausted to a HEPA-filter or Fume Hood
- Sealed and open vessel processing configurations
- Oscillating (up/down) rack for efficient processing of all size samples
- Clear door allows sample viewing and prevents splashing
- Ultra quiet performance, under 75db
- Optional ice tray for frozen samples
- Compact design: 15.7in. (40cm) x 7.8 in. (20cm) x 11.8 in. (30cm)
- CE Approved

The Omni Prep is sold as a customizable homogenizing system. Please see pages 31-32 to choose the accessories best suited for your processing needs. At least 1 processing rack, 3 tube holders, and Omni Tips™ are required to operate the Omni Prep.

*See Page 31 for ordering information.



OMNI PREP MULTI-SAMPLE HOMOGENIZER



Omni Prep Multi-Sample Homogenizer

PRODUCT DESCRIPTION

ORDER

Omni Prep Homogenizer

06-021



Processing Rack

Movable for highly efficient processing. *Required for operating the Omni Prep.*

PRODUCT DESCRIPTION

ORDER

Processing Rack for Omni Prep

06-220

2mL



5mL



15mL



50mL



Rack Tube Holder

Tube holders are available for 1.5-2mL, 5mL, 15mL, and 50mL sample tubes. Custom tube holder sizes are also available. Each holder holds 2 samples tubes. *Required to operate the Omni Prep.*

PRODUCT DESCRIPTION

ORDER

Rack Tube Holder for 1.5-2mL

06-209-02

Rack Tube Holder for 5mL

06-209-05

Rack Tube Holder for 15mL

06-209-15

Rack Tube Holder for 50mL

06-209-50

Omni Deaggregation Tips (7mm diameter x 110mm Length)

For processing liquids, soft tissues, and samples that require gentle processing.



PRODUCT DESCRIPTION

ORDER

25 Omni Deaggregation Tips

30750

50 Omni Deaggregation Tips

32750

100 Omni Deaggregation Tips

34750

500 Omni Deaggregation Tips

35750

Omni Hard Tissue Tips (7mm diameter x 110mm Length)

For processing hard or frozen tissue samples.



PRODUCT DESCRIPTION

ORDER

25 Omni Hard Tissue Tips

30750H

50 Omni Hard Tissue Tips

32750H

100 Omni Hard Tissue Tips

34750H

500 Omni Hard Tissue Tips

35750H

*See Page 32 for additional accessories.



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OMNI PREP ADDITIONAL ACCESSORIES

Stainless Steel Homogenizer Probes

These Stainless Steel Probes were designed specifically for the Omni Prep. They are ideal for larger sample volume, larger initial sample tissue size, and tougher tissue types. Stainless Steel Probes are also resistant to most organic solvents commonly used during homogenization.



<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
5mm X 75mm Stainless Steel Probe	B5-075
5mm X 75mm Stainless Steel Probes (6 Pack)	B5-075-6
7mm X 110mm Stainless Steel Probe	B7-110ST
7mm X 110mm Stainless Steel Probes (6Pack)	B7-110ST-6
10mm X 110mm Stainless Steel Probe	B10-110ST
10mm X 110mm Stainless Steel Probes (6Pack)	B10-110ST-6

7mm Omni Tip Hybrid Probes

The **Omni Tip Hybrid Probes** combine the convenience of disposable plastic probes with the durability of traditional stainless steel probes. Hybrid probes are made up of an outer stainless steel tube with an inner Ultem plastic shaft. The plastic shafts can either be disposed of after use or cleaned and reused multiple times. The simple two-piece design makes these probes much easier to clean and disassemble than traditional stainless steel probes.



<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
7mmx110mm Hybrid Probe	22-007
7mmx110mm Hybrid Probes (6 Pack)	22-007-6
Replacement Shafts (3 Pack)	30017L-HT-3

Ice Tray

Keeps frozen and sensitive samples cold during processing.



<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
Ice Tray for 1.5mL-2mL Tubes	06-207
Ice Tray for 15mL-50mL Tubes <i>Ice tray and rack sold separately</i>	06-210



BEAD RUPTOR 24 BEAD MILL HOMOGENIZER

OMNI BEAD RUPTOR 24

Bead Mill Homogenizing System
Processing Range: 25µL-5mL

The **Omni Bead Ruptor 24** is the newest generation of bead mill homogenizers. This system is specifically designed for the grinding, lysing and homogenization of biological samples prior to any molecular extractions.

Using disposable sample tubes pre-filled with a variety of lysing beads, the Bead Ruptor 24 vigorously and uniformly shakes the tubes providing an efficient, consistent, high-yield and quality homogenization usually in less than 30 seconds.

The Omni Bead Ruptor 24 is an ideal solution for releasing DNA, RNA, proteins, enzymes, etc. from very tough and small samples while still retaining molecular integrity.



Product Features:

- Simultaneously homogenize either 24 x 2mL or 12 x 7mL tubes
- Convenient front-loading design
- Ideal for plant and animal tissues & micro-organisms
- 99 programmable memory settings
- Advanced sample temperature monitoring system
- Broadest performance range: 0.8m/s – 8m/s
- No cool-down required

Includes Bead Ruptor 24 Drive Unit, Tube Carriage, and User Manual.
Bead Ruptor 24 disposable tubes sold separately.

*Please use the chart on page 37 to assist you in choosing the best bead tubes for your samples.
Ordering information for tubes and accessories is located on page 34.*



Omni Bead Ruptor 24 Bead Mill Homogenizing System

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>	<u>PRICE (US \$)</u>
Bead Ruptor 24 Drive Unit	19-010	\$9,250.00

*See Page 34-37 for Bead Ruptor 24 Accessories



www.omni-inc.com
Phone: 1-800-776-4431

E-Mail: omni@omni-inc.com
Fax: 1-770-421-0206

BEAD RUPTOR 24 BEAD MILL HOMOGENIZER

BEAD RUPTOR ACCESSORIES



7mL Finger Plate Kit

Includes:

- A specially designed tube carriage that facilitates the use of 12x7mL tubes with the Bead Ruptor 24
- One unique Bead Ruptor Finger Plate that holds the 7mL tubes firmly in place during processing.

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
Bead Ruptor 7mL Finger Plate Kit	19-010-320



Omni Cryo 24 Cooling Unit

The **Cryo 24** is the perfect companion to the **Bead Ruptor 24**. It keeps samples cool before, after & during processing. Used with liquid nitrogen or dry ice, it maintains a consistent temperature for heat sensitive samples.

Compressed air travels through a heat exchanger, where liquid nitrogen or dry ice cool the air prior to moving it across the sample tubes.

Please note: Compressed air and liquid nitrogen or dry ice are required to operate the Cryo 24.

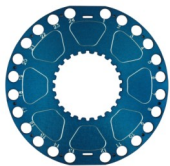
<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
Cryo 24 Cooling Unit	19-8010



Bead Ruptor Rack

This optional Bead Ruptor Rack is available for storage of 3 loaded Tube Carriages before and after processing. Rack and Tube Carriages sold separately.

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
Bead Ruptor Rack (Tube Carriages Sold Separately)	19-010-604



2mL Tube Carriage for the Bead Ruptor 24

One Tube Carriage is included with the Bead Ruptor 24. Holds 24x2mL or 0.5mL tubes.

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
2mL Bead Ruptor 24 Tube Carriage	19-010-30902



7mL Tube Carriage for the Bead Ruptor 24

For use with 12x7mL tubes.

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
7mL Bead Ruptor 24 Tube Carriage	19-030-07

2mL & 0.5mL PRE-FILLED BEAD MILL SAMPLE TUBES

For the Omni Bead Ruptor 24 Homogenizer

Please use the chart on page 37 to assist you in choosing the best bead tubes for your samples.

BEAD MEDIA	TUBE SIZE	BEAD SIZE	DESCRIPTION	QUANTITY	ORDER NUMBER
Glass	2mL	0.1mm	Micro-Organism Lysing Mix	50	19-621
	2mL	0.5mm	Tough Micro-Organism Lysing Mix	50	19-622
Garnet	0.5mL	0.15mm	Small Volume Micro-Organism Lysing Mix	50	19-623
	2mL	0.7mm	Hard & Fibrous Tissue Homogenizing Mix	50	19-624
Carbide	0.5mL	0.25mm	RNA Extractions, Micro-Organism & Soil Homogenizing Mix	50	19-625
Ceramic	2mL	1.4mm	Soft Tissue Homogenizing Mix	50	19-627
	2mL	2.8mm	Hard Tissue Homogenizing Mix	50	19-628
Metal	2mL	2.38mm	Hard Tissue Grinding Mix	50	19-620

Bead Ruptor Tube Sample Pack

Includes 4 each of the following pre-filled sample tubes: 1.4mm ceramic beads, 2.8mm ceramic beads, 0.5mm glass beads, 0.1mm glass beads, 2.38mm metal beads.

<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
Bead Ruptor Tube Sample Pack	19-SAMPLE

Bulk Sample Tubes (No Beads)

Empty sample tubes with caps and O-Rings. Beads are not included.

TUBE SIZE	DESCRIPTION	QUANTITY	ORDER NUMBER
2mL	Empty Sample Tubes with Caps	500	19-648
2mL	Empty Sample Tubes with Caps	1000	19-649
0.5mL	Empty Sample Tubes with Caps	500	19-650

7mL BEAD MILL SAMPLE TUBES

For the Omni Bead Ruptor 24 Homogenizer

7mL BEAD MILL TUBES – These tubes are not pre-filled with beads.



BEAD MEDIA	TUBE SIZE	BEAD SIZE	DESCRIPTION	QUANTITY	ORDER NUMBER
Glass	7mL	0.1mm	Empty Sample Tubes with Micro-Organism Lysing Bead Mix	50	19-654
	7mL	0.5mm	Empty Sample Tubes with Tough Micro-Organism Lysing Bead Mix	50	19-656
Ceramic	7mL	1.4mm	Empty Sample Tubes with Soft Tissue Homogenizing Bead Mix	50	19-652
	7mL	2.8mm	Empty Sample Tubes with Hard Tissue Homogenizing Bead Mix	50	19-653
Metal	7mL	2.38mm	Empty Sample Tubes with Hard Tissue Grinding Bead Mix	50	19-655
None	7mL	-	Empty Sample Tubes	1,000	19-651

7mL Bead Tubes are not RNase/DNase Free & are not currently available pre-filled.

7mL Tube Specifications

- Polypropylene (PP)
- Screw cap tube ONLY
- Maximum centrifugation speed of 5,000g.

Treatable Volume:

- Minimum: 1mL, 1g
- Maximum: 5mL, 4g
- Used with or without buffer

It is strongly recommended that Omni 7mL Tubes be used in conjunction with the Bead Ruptor 24. Our tests have shown that Omni Tubes are the only ones available that are capable of withstanding the power and motion of the Bead Ruptor 24.

BULK BEADS FOR THE BEAD RUPTOR 24



BEAD MEDIA	BEAD SIZE	QUANTITY	ORDER NUMBER
Glass	0.1mm	400g of Beads: Fills 500 x 2mL Tubes	19-641
	0.5mm	400g of Beads: Fills 500 x 2mL Tubes	19-642
Garnet	0.15mm	500g of Beads: Fills 500 x 2mL Tubes	19-643
	0.7mm	500g of Beads: Fills 500 x 2mL Tubes	19-644
Ceramic	1.4mm	325g of Beads: Fills 500 x 2mL Tubes	19-645
	2.8mm	325g of Beads: Fills 500 x 2mL Tubes	19-646
Metal	2.38mm	500g of Beads: Fills 500 x 2mL Tubes	19-640

BEAD RUPTOR 24 BEAD MILL HOMOGENIZER

Please use this chart to assist you in choosing the best bead tubes for your samples.

Ordering information for tubes and accessories is located on pages 34-36.

		LYSE / DISRUPT			RNA	HOMOGENIZE			GRIND	
		19-621 19-654	19-622	19-623	19-625	19-627 19-652	19-628 19-653	19-624	19-620 19-655	
	Micro-Organism Lysing Mix (19-621 & 19-654)		<ul style="list-style-type: none"> 0.1mm Glass Beads in 2mL Tubes 							
	MICROBIAL	Bacteria	✓	✓	✓	✓				
		Yeast		✓	✓	✓	✓			
		Fungi	✓	✓	✓	✓				
Spores		✓	✓	✓	✓					
	Small Volume Micro-Organism Lysing Mix (19-623)		<ul style="list-style-type: none"> 0.15mm Garnet Beads in 0.5mL Tubes 							
	ANIMAL	Skin					✓	✓	✓	✓
		Nerves					✓	✓		
		Artery						✓	✓	
		Intestine						✓	✓	
		Tumors						✓	✓	
		Muscle					✓	✓	✓	✓
		Brain					✓	✓	✓	
		Liver					✓	✓	✓	
		Kidney					✓	✓	✓	
		Lung					✓	✓	✓	
		Heart					✓	✓		✓
		Bone						✓		✓
Hair							✓	✓	✓	
Cartilage						✓		✓		
	Micro-Organism & Soil Homogenizing Mix (19-625)		<ul style="list-style-type: none"> 0.25mm Carbide Beads in 0.5mL Tubes 							
	FISH/ INSECTS	Insects					✓	✓		✓
Zebrafish			✓			✓		✓		
	Soft Tissue Homogenizing Mix (19-627 & 19-652)		<ul style="list-style-type: none"> 1.4mm Ceramic Beads in 2mL Tubes 							
	PLANT	Leaves						✓	✓	✓
		Seeds						✓		✓
		Rice						✓		✓
		Wheat						✓		✓
		Stems						✓		✓
		Roots						✓		✓
Moss						✓	✓		✓	
	Hard & Fibrous Tissue Mix (19-624)		<ul style="list-style-type: none"> 0.7mm Garnet Beads in 2mL Tubes 							
	SOIL	Soil				✓	✓	✓	✓	✓
Sediment					✓	✓		✓	✓	
	Hard & Dry Tissue Grinding Mix (19-620 & 19-655)		<ul style="list-style-type: none"> 2.38mm Metal Beads in 2mL Tubes 							

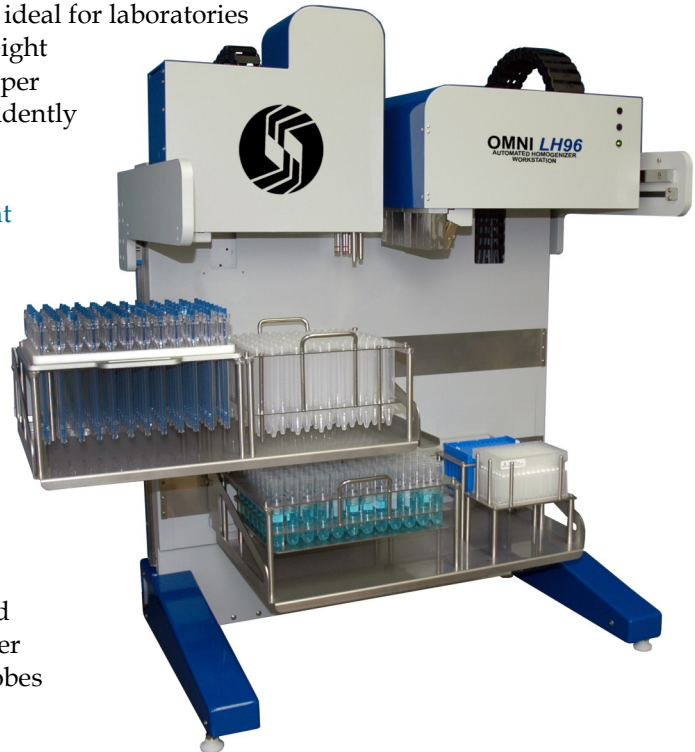
OMNI LH96 AUTOMATED HOMOGENIZER WORKSTATION

Processing Range: 0.25mL-30mL

The **Omni LH96 Automated Homogenizing and Liquid Handling Workstation** is designed to batch process up to 96 samples per processing cycle. This **fully automated homogenizer** greatly reduces the risk of operator error and fatigue and fosters walk-away sample processing. The LH96 is ideal for laboratories with high sample throughput. It homogenizes four or eight samples at a time (depending on tube size), using Whisper Drive Technology™ motors which quietly and independently process each sample.

The LH96 consists of a core homogenizing platform that can be customized with a broad range of user specified accessories and modules to add functionality and full sample processing automation.

The Omni LH96 is compatible with stainless steel generator probes and patented Omni Tip™ plastic homogenizing probes which are disposable if sample carryover cannot be tolerated. Patented Omni Tip™ Plastic Generator Probes are designed to completely avoid cross-contamination between samples during Homogenization. The tips are easy to clean or they can be re-used after autoclaving/batch cleaning or disposed of after use. Omni Tips are seven millimeters in diameter and ninety five millimeters in length. Stainless steel probes are also available.



Three independent pipetting channels transfer homogenate to 96-well microplates or other tube formats. Liquid level detection is also available if needed for specific protocols. The LH96 can automatically dispense buffer based on user defined specifications or actual sample weight. A Bar Code Reader and Automatic Sample Weighing are other optional features for the LH96. Integrated sample cooling down to 4°C is also available for those working with frozen and/or delicate samples.

The LH96 operates with a Windows-based operating system which is controlled by means of a touch-screen control panel. An external keyboard and monitor can be used if the end user wants to control the unit remotely. The control system can be networked for saving and retrieval of data. Saved information can be imported into Excel files for further evaluation and future reference of the sample process.

High Throughput, total repeatability & integrated record keeping completely eliminate sample processing bottlenecks.



OMNI LH96 HOMOGENIZER WORKSTATION

The Omni LH96 is available in two different configurations. Both provide automated homogenization and a touch-pad user interface. The LH96 works exclusively with Omni Tip Plastic Homogenizer Probes and Omni Stainless Steel Probes.



Omni AH96 Automated Homogenizer

- Process six samples at a time and up to 96 samples per cycle
- 2 Shelf System for Omni Tips, sample tubes and spent Omni Tips)

Call 1-800-776-4431 for pricing and ordering information.



Omni LH96 Automated Homogenizer & Liquid Handling Workstation

Users choose from the following options:

- Liquid Handling/ Automated Sample Transfer
- Pipetting
- Bar Code Scanning
- Sample Weighing
- Sample Cooling

Call 1-800-776-4431 for pricing and ordering information.

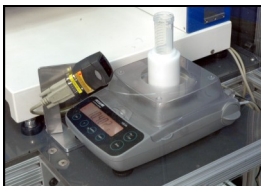


Homogenizing Platform

Available in a 4-Head or 8-Head motor configuration for processing 4 or 8 samples simultaneously.

Sample Pipetting Module

Automated pipetting of four samples simultaneously to be used with disposable pipette tips. Used pipette tips are automatically collected in a container for easy disposal.



Bar Code Reader

Conveniently enables electronic tracking and cataloging of samples.

Weighing Module

Contains laboratory scale for accurately recording weights of samples to 0.0001 gram. Each weighing module will have a sample holder that is specifically designed for the customer's vials or tubes.



Stainless Steel Sample Tube Tray

Included tube rack holds up to ninety-six 15mL BD Falcon Tubes. Different sample trays are available for other standard and custom tube sizes. (An example of the customer's sample tubes should be sent to Omni to verify tube tray size is correct).



Integrated Cooling Tray

A special rack can be specified in order to keep sensitive samples cool during the entire processing cycle of the workstation.



www.omni-inc.com
Phone: 1-800-776-4431

E-Mail: omni@omni-inc.com
Fax: 1-770-421-0206

BIOMASHER

Single Use Homogenizer
Processing Range: 0.03mL-2mL

The **BioMasher™** is an essential tool for any researcher working with nucleic acid extraction, protein extraction, and many types of cell disruption. Its proprietary design consists of a homogenizer for grinding your sample, an 80-145µm column for straining, and a collection tube to contain the final homogenate. This system can be used on a wide variety of tissues, and is an ideal preparatory step of amplification and other downstream applications. BioMashers are also autoclavable for sterile applications.



Product Features:

- Ideal for nucleic acid extraction, protein extraction, and many types of cell disruption
- Consists of a homogenizer for grinding, an 80-145µm column for straining, and a collection tube to contain the final homogenate
- Tubes available in 1.5mL or 2mL sizes
- Available with an O-Ring for soft samples and without an O-Ring for harder tissues
- Ideal for sample preparation in conjunction with Omni Tip™ plastic probes

BioMasher Single Use Homogenizer



<u>PRODUCT DESCRIPTION</u>	<u>ORDER #</u>
BioMasher 1.5mL – 50 Pack	09-A10-050
BioMasher 1.5mL – 300 Pack	09-A10-300
BioMasher 1.5mL w/ O-Ring – 50 Pack	09-A11-050
BioMasher 1.5mL w/ O-Ring – 300 Pack	09-A11-300
BioMasher 2mL – 50 Pack	09-A12-050
BioMasher 2mL – 300 Pack	09-A12-300
BioMasher 2mL w/ O-Ring – 50 Pack	09-A13-050
BioMasher 2mL w/ O-Ring – 300 Pack	09-A13-300

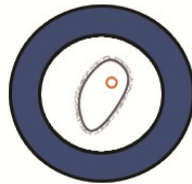
Sample packs are also available. Call for pricing.



Animal



Human



Cellular



Plant



Food



Chemistry

Our Applications database can help you find the best solution - quickly.

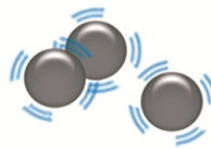
Our constantly expanding database consists of carefully reviewed customer published applications, sorted into useful categories, complete with product recommendations to help you find the right laboratory homogenizer for any sample type.

If you can't find an answer in the database, call us and we'll help!

www.omni-inc.com/applications

Mechanical
Shear

Ultrasonic

Bead
MillsAutomation/
Robotic

NOTES: _____



ELIMINATE CLEANING & CROSS-CONTAMINATION

Omni Tip™ Plastic Homogenizer Probes

- Disposable or Autoclavable to eliminate cross-contamination
- Two-piece clear stator design eliminates sample loss
- Soft & Hard Tissue versions available
- Treatable volume 0.25mL-30mL

See Page 12 for more information.



EVERYTHING YOU NEED TO HOMOGENIZE

Omni Tip™ Homogenizing Kits

- Omni TH motor & 12 Omni Tips in a convenient storage case
- Designed for homogenizing hard or soft tissue, PCR, RNA/DNA, sample prep & many other applications
- Convenient and economical
- Available with optional stainless steel probes

See Page 8 for more information.



VERSATILE, POWERFUL, RELIABLE HOMOGENIZING

Omni Mixer Homogenizers

- Powerful 600 watt to 1,800 watt motors
- 50 year history
- 3 year motor warranty
- Wide variety of processing accessories

See Page 18 for more information.



OMNI
International

The Homogenizer Company™

935-C Cobb Place Blvd.
Kennesaw, GA 30144

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E-mail: omni@omni-inc.com

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12-21-11