

Available from PRO Scientific is a variety of economical packages which have been preselected to better assist you in selecting a homogenizer setup that best suits your needs. PRO's Micro-Homogenizing Packages are ideal for processing 0.3-2ml volumes, the MaX-Homogenizing Packages are perfect for processing small-large volumes and the Universal Homogenizing Packages provide the utmost in versatility and gives you everything you need to begin homogenizing in tubes from 1.5ml up to 50ml. For multi-sample homogenizing, the Multi-Gen 7XL Homogenizing Package is ideal for homogenizing multi-samples while avoiding cross-contamination in microtubes to 50ml tubes.



MICRO PACKAGES IDEAL FOR .5 - 2ml TUBES

STANDARD

Bio-Gen PRO200 Homogenizer
5 x 75mm flat bottom generator probe

DELUXE

Bio-Gen PRO200 Homogenizer
5 x 75mm saw flat bottom generator probe
7 x 95mm saw tooth bottom generator probe

PREMIUM

Bio-Gen PRO200 Homogenizer
5 x 75mm saw flat bottom generator probe
7 x 95mm saw tooth bottom generator probe
Bio-Gen PRO200 stand assembly

MAX PACKAGES IDEAL FOR 15 - 50ml TUBES SMALL MEDIUM BEAKERS

STANDARD

Bio-Gen PRO200 Homogenizer
10 x 115mm saw tooth bottom generator probe

DELUXE

Bio-Gen PRO250 Homogenizer
10 x 115mm saw tooth bottom generator probe
20 x 200mm saw tooth bottom generator probe

PREMIUM

Bio-Gen PRO250 Homogenizer
10 x 115mm saw tooth bottom generator probe
20 x 200mm saw tooth bottom generator probe
PRO250 samll footprint stand assembly

MULTI-GEN 7XL PACKAGES IDEAL FOR MULTI - SAMPLE HOMOGENIZING 1.5 - 50ml

PREMIUM

Bio-Gen PRO200 Homogenizer
Multi-Gen - 7XL Adapter
12 Pack - Multi-Gen 7XL generator probes

UNIVERSAL PACKAGES IDEAL FOR TOUGH SAMPLES 1.5 - 50ml TUBES

STANDARD

Bio-Gen Pro 200 Homogenizer
7 x 95mm saw tooth bottom generator probe
10 x 115mm saw tooth bottom generator probe

DELUXE

Bio-Gen PRO200 Homogenize
7 x 95mm saw tooth bottom generator probe
10 x 115mm saw tooth bottom generator probe
Bio-Gen PRO200 stand assembly

ALL PACKAGES INCLUDE A PROTECTIVE CARRYING CASE



Your lab equipment experts.

www.proscientific.com
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8 4 3 7 7 6

Bio-Gen™ PRO200®

Handheld or Post-Mounted Laboratory Homogenizer

Offering plenty of power and useful features, the Bio-Gen PRO200 homogenizer now has a 144 watt, high-torque motor with a variable speed adjustment, allowing for homogenization in mere seconds and a maximum noise level of only 68 dB. A separate ON/OFF switch conveniently allows for the slide switch speed control to remain at your ideal homogenizing speed.

With PRO QUICK CONNECT® rotor stator generators, ranging from 5 mm to 20 mm in diameter, or with PRO's SAFETY SEAL® ST (Sealed Tube) Chamber Assemblies, the Bio-Gen PRO200 can homogenize samples as small as 0.03 ml or as large as 1 L.

The Bio-Gen PRO200 is ideal for using our Multi-Gen 7® stainless steel generators (see page 7 in our Laboratory Equipment catalog) for low-cost repeat homogenization without the risk of cross contamination.

Refer to pages 7 to 10 in PRO's Laboratory Equipment catalog for available generators and assemblies.

Specifications

| | |
|----------------------|---|
| Dimensions | 2.15 x 7.875 x 1.98 in / 5.4 x 20.0 x 5.03 cm (w x h x d) |
| Weight | 1.4 lb / 0.6 kg |
| Speed range | 5,000 - 35,000 rpm (120 V) / 5,000 - 33,000 rpm (220 V) |
| Power | 144 W |
| Sample vol | 0.03 ml - 1 L* |
| Noise rating | 68 dB |
| Speed control | Analog; variable speed; separate ON/OFF switch |
| | * Recommended maximum sample volume |

Item No. Description

| | |
|----------|---|
| 01-01200 | Bio-Gen PRO200 Homogenizer Handheld or post mounted variable speed: 5,000 to 35,000 rpm, 1/5 hp, 120 V, 50/60 Hz, 1.2 A. |
| 01-02200 | Bio-Gen PRO200 Homogenizer Handheld or post mounted variable speed: 5,000 to 33,000 rpm, 1/5 hp, 220 V, 50/60 Hz, 0.6 A. |
| 80-20000 | PRO200 Stand Assembly 8 x 7 in. vinyl padded base with 1/4 in. x 24 in. post. Includes: motor cross rod, post clamp |
| 80-00102 | Vessel Holder Assembly Vessel holder support and strap. For use on all PRO homogenizer stand assemblies |

Homogenizing Hint

When homogenizing in 1.5 ml microtubes, 5 mm and 7 mm generators are ideal.

NEXT-DAY DELIVERY ON THIS ITEM and most parts and accessories

**PRO
Scientific**

www.proscientific.com

Bio-Gen™ PRO200®

The lightest,
highest-torque,
most versatile
homogenizer
available

GENERATOR
SOLD SEPARATELY



Order toll-free: 1-800-5-THE PRO (1-800-584-3776)



PRO250
576 watts of high-power homogenization in a compact, handheld unit

GENERATOR SOLD SEPARATELY



By adding the SC-250 digital speed control box, the PRO250C can process at lower speeds for even greater precision - speed range 0 - 30,000rpm

PRO250[®]

Handheld or Post-Mounted Laboratory Homogenizer

The PRO250 is a perfect fit between the PRO200 and the benchtop PRO homogenizers. It's lightweight enough to be handheld for convenience, yet has extra torque for processing difficult samples. A separate ON/OFF switch effortlessly allows for the dial knob speed control to remain at your ideal homogenizing speed.

Combining the power of a 3/4 hp, 576 watt motor with a smooth variable speed control, the PRO250 handles a wide range of sample sizes. With PRO QUICK CONNECT[®] rotor/stator generators ranging in diameter from 5 mm to 30 mm, it can process samples from 0.03 ml to 5 L. The PRO250 also accommodates our SAFETY SEAL[®] ST Chamber Assemblies with either a rotor/stator generator or a blade.

Specifications

| | |
|----------------------|--|
| Dimensions | 2.75 x 9 x 2.75 in (w x h x d) / 6.9 x 22.8 x 6.9 cm |
| Weight | 3.2 lb / 1.4 kg |
| Speed range | 10,000 - 30,000 rpm |
| Power | 576 W |
| Sample vol | 0.03 ml - 5 L* |
| Noise rating | 72 dB |
| Speed control | Analog: variable speed / digital-ready |

* Recommended maximum sample volume

Item No. Description

| | |
|-----------|--|
| 01-01250 | PRO250 Homogenizer Handheld or post-mounted, variable speed: 10,000 to 30,000 rpm, 3/4 hp, 120 V, 50/60 Hz, 4.8 A. |
| 01-02250 | PRO250 Homogenizer Handheld or post-mounted, variable speed 10,000 to 30,000 rpm, 3/4 hp, 220 V, 50/60 Hz, 2.4 A. |
| 01-01250C | PRO250C Homogenizer Handheld or post mounted variable speed: 10,000 to 30,000 rpm, compatible with digital speed control box, 3/4 hp, 120 V, 50/60 Hz, 4.8 A. |
| 01-02250C | PRO250C Homogenizer Handheld or post mounted variable speed: 10,000 to 30,000 rpm, compatible with digital speed control box, 3/4 hp, 220 V, 50/60 Hz, 2.4 A. |
| 80-25000 | PRO250 Stand Assembly - Smaller Footprint 8 x 7 in. vinyl padded base with 1/2 in. x 24 in. post. Includes: motor cross rod, post clamp |
| 80-25100 | PRO250 Stand Assembly 10 in. U-shaped open base with 1/2 in. x 24 in. post. Includes: motor cross rod, post clamp |
| 80-00102 | Vessel Holder Assembly Vessel holder support and strap. For use on all PRO homogenizer stand assemblies |
| 91-01270 | Digital Speed Control Box Variable speed: 0 to 30,000 rpm with digital display, 120 V, 50/60 Hz |
| 91-02270 | Digital Speed Control Box Variable speed: 0 to 30,000 rpm with digital display, 220 V, 50/60 Hz |
| 91-01250 | Analog Speed Control Box Variable speed: 0 to 30,000 rpm, no display, 120 V, 50/60 Hz |
| 91-02250 | Analog Speed Control Box Variable speed: 0 to 30,000 rpm, no display, 220 V, 50/60 Hz |

NEXT-DAY DELIVERY ON THIS ITEM and most parts

Call 1-800-584-3776 to check availability



PRO D-Series®

Digital Benchtop Homogenizers

The D-Series is a perfect balance of power and superior performance. Combining a high-watt motor and advanced technology in digital speed controls has resulted in the most reliable and durable laboratory benchtop homogenizer. Its Three-Turn Speed Knob with the ability to adjust RPMs to the hundreds opposed to thousands, and its brighter LED display provide more user-friendly control. Additional features, such as the Dual-Power Light Indicator for simpler error/problem identification and the PRO TRAC motorized stand for effortless, accurate and smooth motor positioning, complement the most advanced digital benchtop homogenizer on the market.

The D-Series offers two different models with different power options: 576W and 1305W. With a sample volume range capability from microliters to liters, the D-Series is enormously versatile at homogenizing, emulsifying, blending and/or mixing organic and inorganic materials.

The entire line of PRO QUICK CONNECT® generators can be mounted to the D-Series, which also accepts every PRO SAFETY SEAL® chamber assembly to safely contain generated aerosols and prevent sample and workspace contamination. The D-Series 400DEL is an extra long (EL) stand height version for use with tall containers.

Refer to pages 7 to 10 for available generators and assemblies.

| Specifications | 300D | 400D / 400DEL |
|-----------------|----------------|-----------------|
| Weight | 21 lb / 9.5 kg | 32 lb / 14.5 kg |
| RPM range | 0 - 28,000 | 0 - 23,000 |
| Power watts | 576 | 1305 |
| Sample vol | 0.03 ml - 5 L* | 0.03 ml - 30 L* |
| Noise rating dB | 68 | 68 |

* Recommended maximum sample volume

Item No. Description

- 01-01300DS** **PRO300D Digital Homogenizer** Variable speed: 0 to 28,000 rpm, 3/4 hp, 120 V, 50/60 Hz, 5.8 A.
- 01-02300DS** **PRO300D Digital Homogenizer** Variable speed: 0 to 28,000 rpm, 3/4 hp, 220 V, 50/60 Hz, 2.9 A.
- 01-01400DS** **PRO400D Digital Homogenizer** Variable speed: 0 to 23,000 rpm, 1-3/4 hp, 120 V, 50/60 Hz, 10 A.
- 01-02400DS** **PRO400D Digital Homogenizer** Variable speed: 0 to 23,000 rpm, 1-3/4 hp, 220 V, 50/60 Hz, 5 A.
- 01-01400DSEL** **PRO400DEL Digital Homogenizer** With extra long stand height, variable speed: 0 to 23,000 rpm, 1-3/4 hp, 120 V, 50/60 Hz, 10 A.
- 01-02400DSEL** **PRO400DEL Digital Homogenizer** With extra long stand height, variable speed: 0 to 23,000 rpm, 1-3/4 hp, 220 V, 50/60 Hz, 5 A.

Homogenizing Hint

For large solid mass or dry homogenization, use a PRO SAFETY SEAL® chamber assembly with a blade.



PRO D-Series
Compact benchtop unit speeds through homogenizing tasks with smooth, digital speed control and plenty of power

GENERATOR SOLD SEPARATELY



The PRO400 speeds through the homogenization of difficult samples. Shown here with the 02-37000 stainless steel deflector head (see page 8) attached to a 37mm generator for enhanced sample motion.



Order toll-free: 1-800-5-THE PRO (1-800-584-3776)



PRO PC-Series

Most versatile and affordable, high-torque, programmable homogenizers available



PRO400PC

CHAMBER ASSEMBLY SOLD SEPARATELY



PROgrammable® Software graphs a homogenization program in real time on your computer screen

PRO PC-Series®

Programmable Laboratory and Industrial Homogenizers

Responding to a need for homogenizers that can run repetitive batch processing with a minimum of operator attention, PRO developed the computer-interfaced PRO PC-Series®.

The PRO300PC and PRO400PC are programmed either from the unit's touchpad or from your own laptop or desktop computer (serial communication modes RS232) with the included PROgrammable® software. An infinite number of programs can be created and stored, each consisting of up to 23 unique cycles defining speed, run time and pause between each cycle. At any point a PC-Series homogenizer can be overridden and manual control resumed.

PRO PC-Series homogenizers meet industry requirements for verification of processing and documentation maintenance. As homogenization proceeds, data can be graphed on the computer screen. Both the programs and the data collected (set time and set speed versus actual time and actual speed) can be stored and recalled for screen display or printout.

For further specifications refer to the D-Series descriptions on page 5. Refer to pages 7 to 10 for available generators and assemblies.

Specifications

| | 300PC | 400PC / 400PCEL |
|-----------------|----------------|-----------------|
| Weight | 21 lb / 9.5 kg | 32 lb / 14.5 kg |
| RPM range | 0 - 28,000 | 0 - 23,000 |
| Power watts | 576 | 1305 |
| Sample vol | 0.03 ml - 5 L* | 0.03 ml - 30 L* |
| Noise rating dB | 68 | 68 |

* Recommended maximum sample volume

Item No. Description

- 01-01300PC **PRO300PC Programmable Homogenizer** Variable speed: 0 to 28,000 rpm, 3/4 hp, 120 V, 50/60 Hz, 5.8 A.
- 01-02300PC **PRO300PC Programmable Homogenizer** Variable speed: 0 to 28,000 rpm, 3/4 hp, 220 V, 50/60 Hz, 2.9 A.
- 01-01400PC **PRO400PC Programmable Homogenizer** Variable speed: 0 to 23,000 rpm, 1-3/4 hp, 120 V, 50/60 Hz, 10 A.
- 01-02400PC **PRO400PC Programmable Homogenizer** Variable speed: 0 to 23,000 rpm, 1-3/4 hp, 220 V, 50/60 Hz, 5 A.
- 01-01400PCEL **PRO400PCEL Programmable Homogenizer** With extra long stand height, variable speed: 0 to 23,000 rpm, 1-3/4 hp, 120 V, 50/60 Hz, 10 A.
- 01-02400PCEL **PRO400PCEL Programmable Homogenizer** With extra long stand height, variable speed: 0 to 23,000 rpm, 1-3/4 hp, 220 V, 50/60 Hz, 5 A.

Order toll-free: 1-800-5-THE PRO (1-800-584-3623)



Quick Connect® Generators for every application

Every PRO generator is engineered for multiple applications and long service life. Made from highly durable 316 stainless steel, they can be completely sterilized by hot air, autoclaving, flaming or chemical processes, either as an assembly or disassembled into components. Every PRO generator features PRO's QUICK CONNECT® design to remove or lock a generator in place with an easy quarter-turn. PRO HD generators are designed for rigorous conditions, such as running for an excessive time, processing gritty materials, and when cleaning after each use is not possible. PRO CRYO generators allow users to cryogenically mill soil and sediment samples and to break down frozen materials. Their unique design enables faster, more complete processing of those types of samples than possible with other homogenizing equipment.

For item part numbers refer to page 11.

| | | GENERATORS (DIA X LENGTH) | TYPE | COMPATIBLE MODELS | RECOMMENDED TUBE, BEAKER AND CONTAINER SIZES |
|--------------|--|------------------------------|--------------|---------------------------|--|
| 5 mm | | 5mm x 75mm | Flat bottom | All models | 0.5ml, 1.5ml, 2.0ml tubes <i>(5mm generator for sample vols. <0.4ml)</i> |
| 7 mm | | 7mm x 75mm | Saw tooth | All models | 1.5ml, 2.0ml, 5.0ml tubes |
| | | 7mm x 95mm | Saw tooth | All models | 1.5ml, 2.0ml, 5.0 ml, 10ml tubes |
| | | 7mm x 120mm* | Saw tooth | All models | 10ml, 15ml tubes |
| 10 mm | | 10mm x 105mm | Saw tooth | All models | 10ml, 50ml tubes |
| | | 10mm x 115mm | Saw tooth | All models | 10ml, 15ml, 50ml tubes |
| | | 10mm x 150mm* | Saw tooth | All models | 15ml tubes |
| 20 mm | | 20mm x 105mm | Saw tooth | All models | 50ml tubes, small beakers |
| | | 20mm x 115mm | Saw tooth | All models | 50ml tubes, small beakers |
| | | 20mm x 150mm* | Saw tooth | PRO250 and larger models | Small/medium beakers |
| | | 20mm x 200mm* | Saw tooth | PRO250 and larger models | Large beakers and containers |
| 30 mm | | 30mm x 115mm | Open slotted | PRO250 and larger models | Small beakers |
| | | 30mm x 150mm* | Open slotted | PRO250 and larger models | Small, medium beakers |
| | | 30mm x 200mm* | Open slotted | PRO250 and larger models | Large beakers and containers |
| | | 30mm x 200mm HD* | Open slotted | PRO250 and larger models | Large beakers and containers |
| 37 mm | | 37mm x 115mm | Open slotted | PRO350D and larger models | Small beakers |
| | | 37mm x 150mm* | Open slotted | PRO350D and larger models | Small, medium beakers |
| | | 37mm x 200mm* | Open slotted | PRO350D and larger models | Large beakers and containers |
| | | 37mm x 200mm HD* | Open slotted | PRO350D and larger models | Large beakers and containers |
| | | 37mm x 340mm* | Open slotted | PRO400DEL | Large containers |
| 43 mm | | 43mm x 115mm | Open slotted | PRO350D and larger models | Small beakers |
| | | 43mm x 150mm* | Open slotted | PRO350D and larger models | Small, medium beakers |
| | | 43mm x 200mm* | Open slotted | PRO350D and larger models | Large beakers and containers |
| | | 43mm x 200mm HD* | Open slotted | PRO350D and larger models | Large beakers and containers |
| | | 43mm x 340mm* | Open slotted | PRO400DEL | Large containers |
| 59 mm | | 59mm x 115mm | Open slotted | PRO350D and larger models | Small beakers |
| | | 59mm x 150mm* | Open slotted | PRO350D and larger models | Small, medium beakers |
| | | 59mm x 200mm* | Open slotted | PRO350D and larger models | Large beakers and containers |
| | | 59mm x 200mm HD* | Open slotted | PRO350D and larger models | Large beakers and containers |
| Cryo | | 50mm x 150mm | Cryogenic | PRO250 and larger models | Small, medium beakers |
| | | 70mm x 150mm | Cryogenic | PRO250 and larger models | Small, medium beakers |

* FOR PROPER HOMOGENIZATION AND TO PROTECT BOTH THE GENERATOR AND THE SAMPLE this generator should only be used when the sample height in your tube/container comes at least half-way up the generator shaft. Compare the shaft length of this generator to your total sample height to ensure that your sample height is equal to or greater than half of the generator shaft length.



Multi-Gen®

The better alternative to plastic disposable generator probes

Multi-Gen® generator probes are the better alternative to disposable plastic generator probes. This unique equipment is a reusable 7mm diameter generator probe manufactured from superior 316 stainless steel and PTFE, which allows for homogenizing samples without cross contamination and without the need to stop and clean a generator between samples. A Multi-Gen generator probe can quickly lock into the special Multi-Gen Adapter to provide hands-free ejection of the probe, minimizing the chance of accidental contamination. Multi-Gen generator probes are offered in multi-packs of 12 or 24 for convenience.

Advantages over plastic disposable generator probes:

First advantage, Multi-Gen generator probes can process more difficult samples, including tough tissues.

Second advantage, Multi-Gen generator probes can be sterilized by any method, including flaming and autoclaving.

Third advantage, Multi-Gen generator probes are more economical because of their ability to be reused an unlimited number of times not like plastic disposable generator probes

Multi-Gen 7 Features:

- Flat bottom design – ideal for liquid and soft samples
- Shaft length – best for microtubes to 5ml tubes

Multi-Gen 7XL Features:

- Open slotted tooth design – ideal for the softest to the toughest of samples
- Longer shaft, approximately 115mm – perfect for sample volumes from microtubes to 50ml tubes

Multi-Gen 7 and 7XL COMPONENTS AVAILABLE INDIVIDUALLY

| Item No. | Description |
|---------------|---|
| 07-07200 | Multi-Gen Adapter Required when using either Multi-Gen generator |
| 02-070MG-12 | Multi-Gen 7 Generators (12/package) |
| 02-070MG-24 | Multi-Gen 7 Generators (24/package) |
| 02-070MGXL-12 | Multi-Gen 7XL Generators (12/package) |
| 80-00218 | Multi-Gen Ejector Clamp Assembly For use with 80-00200 PRO200 Stand Assembly (see page 3) and Multi-Gen 7 generators only. Includes: Post clamp assembly, cross rod assembly, ejector collar |
| 03-11703P | PTFE Bearings Replacement PTFE bearings for use in Multi-Gen 7 and 7XL generators |

Most recommended motor unit for use with the Multi-Gen 7:

| | |
|----------|---|
| 01-01200 | PRO200 Homogenizer 120v homogenizer (see page 3) |
| 01-02200 | PRO200 Homogenizer 220v homogenizer (see page 3) |
| 80-00200 | PRO200 Stand Assembly 7 x 10 in. vinyl-padded base with easy-lift mechanism (see page 3) |

NEXT-DAY DELIVERY ON THIS ITEM and most parts and accessories

PRO Multi-Gen 7 and 7XL

Tougher than disposable generators – and more economical



Multi-Gen 7 contains 7mm stainless steel generators in convenient 12- or 24-count packages



Multi-Gen 7XL (top) and 7 generators cover the spectrum of sample volumes.



Multi-Gen 7XL is a package of 7mm open-slotted generators



Order toll-free: **1-800-5-THE PRO** (1-800-584-3776)

PRO

PRO Deflector Heads

Enhance sample movement for improved homogenization

PRO Scientific deflector heads are specifically designed to enhance the homogenization of larger volume and higher viscosity materials.

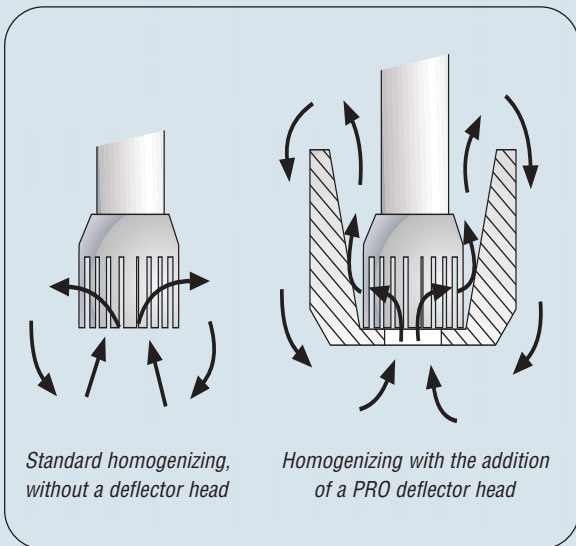
The deflector head design creates vertical movement of heavy materials which would otherwise remain motionless, and promotes increased flow on larger volume samples. When processing viscous materials like creams and lotions, the PRO homogenizer deflector head forces materials from the generator tip up its tapered walls, creating increased vertical movement of the entire sample (see the figure, below left). The material is then repeatedly recycled back down to the bottom of the generator and up through the deflector head until a homogeneous mixture is achieved.

PRO deflector homogenizer heads are available in acetyl resin and stainless steel, and fit easily on PRO generators with diameters of 20 mm or more.



PRO Deflector Heads

Enhance homogenization of larger volume and higher viscosity samples



PRO Deflector Heads

| Item No. | Description |
|------------|--|
| 02-20000 * | Deflector Head for 20mm diameter generator |
| 02-30000 * | Deflector Head for 30mm diameter generator |
| 02-37000 * | Deflector Head for 37mm diameter generator |
| 02-43000 * | Deflector Head for 43mm diameter generator |
| 02-59000 * | Deflector Head for 59mm diameter generator |

* Specify material: acetyl resin (D) or stainless steel (S). Deflector head includes mounting hardware.

Homogenizing Hint

Always begin homogenizing at a low rpm, and then gradually increase the speed to your target level.



Order toll-free: 1-800-5-THE PRO (1-800-584-3773)

PRO Safety Seal®

Tubes and Chamber Assemblies for safely homogenizing volatile materials and protecting samples from contamination

PRO SAFETY SEAL® Tubes and Chamber Assemblies are by far the industry's safest method of homogenizing with either a blade or a rotor stator generator. Their design provides a two-way barrier, protecting the operator from hazardous aerosols generated during processing while isolating the sample from external contaminants. In addition, the unique design of PRO SAFETY SEAL assemblies will not permit the user to operate the homogenizer with the blade exposed: the blade assembly cannot be engaged to the drive motor unless the chamber is attached.

PRO ST (Sealed Tube) Series

| Item No. | Description | Treatable Vol. (ml) |
|----------|-------------------------------------|---------------------|
| ST-2 | 1.5ml/2ml Assembly w/ 5mm Generator | 0.2 - 1.0 |
| ST-5 | 5ml Assembly w/5mm Generator | 0.5 - 3.0 |
| ST-10 | 16ml Assembly w/7mm Generator | 2.0 - 10 |
| ST-15 | 19ml Assembly w/7mm Generator | 5.0 - 11 |
| ST-50-10 | 50ml Assembly w/10mm Generator | 5.0 - 40 |
| ST-50-20 | 50ml Assembly w/20mm Generator | 5.0 - 25 |

PRO Glass Chamber Assemblies

| Item/Description | Treatable Vol. (ml) |
|---|---------------------|
| 473ml Chamber Assembly w/2" Dia. Blade | 50 - 150 |
| 946ml Chamber Assembly w/2" Dia. Blade | 100 - 800 |
| 473ml Chamber Assembly w/20mm Generator | 150 - 300 |
| 473ml Chamber Assembly w/30mm Generator | 150 - 350 |
| 946ml Chamber Assembly w/20mm Generator | 350 - 800 |
| 946ml Chamber Assembly w/30mm Generator | 350 - 800 |

PRO Stainless Steel Chamber Assemblies

| Item/Description | Treatable Vol. (ml) |
|---|---------------------|
| 70ml Chamber Assembly w/1" Dia. Blade | 10 - 60 |
| 600ml Chamber Assembly w/2" Dia. Blade | 100 - 500 |
| 70ml Chamber Assembly w/10mm Generator | 20 - 60 |
| 70ml Chamber Assembly w/20mm Generator | 20 - 60 |
| 600ml Chamber Assembly w/20mm Generator | 250 - 500 |
| 600ml Chamber Assembly w/30mm Generator | 250 - 500 |
| * 1.2l Chamber Assembly w/70mm Generator (not sealed) | 100 - 1L |

* No safety seal, splash guard top only



PRO SAFETY SEAL®
ST SERIES

PRO SAFETY SEAL®
GLASS CHAMBER
ASSEMBLIES

PRO SAFETY SEAL®
STAINLESS STEEL
CHAMBER ASSEMBLIES

PRO Chamber and Motor Selection Chart with Replacement Components

| | Part No. | Sealed Tube/Size | Blade (B)/ Gener. (G) | Shaft Assembly | Tube or Chamber | Cover | Seal or Plug | Gasket | Cage or Adapter | Insert |
|----------------------------------|-------------|------------------|-----------------------|----------------|-----------------|----------|--------------|----------|-----------------|-------------|
| ST Series | 15-32002 | ST-2 | G | 02-05075 | 11-03010 | 14-01500 | * | N/A | 11-02503 | 14-51017-05 |
| | 15-32005 | ST-5 | G | 02-05075 | 11-03050 | 14-01150 | 14-21051 | N/A | 11-02053 | N/A |
| | 15-32010 | ST-10 | G | 02-07095 | 11-03100 | 14-01150 | 14-21151 | N/A | 11-02103 | N/A |
| | 15-32015 | ST-15 | G | 02-07120 | 11-03150 | 14-01150 | 14-21151 | N/A | 11-02153 | N/A |
| | 15-32050-10 | ST-50 | G | 02-10105 | 11-03500 | 14-01500 | 14-21501-10 | N/A | 11-02503 | N/A |
| | 15-32050-20 | ST-50 | G | 02-20105 | 11-03500 | 14-01500 | 14-21501-20 | N/A | 11-02503 | N/A |
| Glass Chamber Assembly | 15-19473 | 473ml | B2 | 12-00115 | 11-01470 | 14-02600 | 14-12001 | 99-00021 | 14-00002 | 14-00003 |
| | 15-19946 | 946ml | B2 | 12-00150 | 11-01940 | 14-02600 | 14-12001 | 99-00021 | 14-00002 | 14-00003 |
| | 15-12473-20 | 473ml | G | 02-20115 | 11-01470 | 14-01600 | 14-11001 | 99-00021 | 14-00002 | N/A |
| | 15-12473-30 | 473ml | G | 02-30115 | 11-01470 | 14-01600 | 14-11001 | 99-00021 | 14-00002 | N/A |
| | 15-12946-20 | 946ml | G | 02-20150 | 11-01940 | 14-01600 | 14-11001 | 99-00021 | 14-00002 | N/A |
| 15-12946-30 | 946ml | G | 02-30150 | 11-01940 | 14-01600 | 14-11001 | 99-00021 | 14-00002 | N/A | |
| Stainless Steel Chamber Assembly | 15-09070 | 70ml | B1 | 12-00115 | 11-00700 | 14-02700 | 14-02701 | 99-00022 | N/A | N/A |
| | 15-09600 | 600ml | B2 | 12-00150 | 11-00600 | 14-02600 | 14-12601 | 99-00020 | N/A | 14-00003 |
| | 15-02070-10 | 70ml | G | 02-10115 | 11-00700 | 14-01500 | 14-11701 | 99-00022 | N/A | N/A |
| | 15-02070-20 | 70ml | G | 02-20115 | 11-00700 | 14-01500 | 14-11701 | 99-00022 | N/A | N/A |
| | 15-02600-20 | 600ml | G | 02-20150 | 11-00600 | 14-01600 | 14-11601 | 99-00020 | N/A | N/A |
| | 15-02600-30 | 600ml | G | 02-30150 | 11-00600 | 14-01600 | 14-11601 | 99-00020 | N/A | N/A |
| | 15-081200 | 600ml | G | 02-70150 | 11-00120 | 14-33120 | N/A | N/A | N/A | N/A |

B1 = 1 inch dia blade, #04-02001

B2 = 2 inch dia blade, #04-02002

*14-21011-05 Upper Seal and 14-21016-05 Lower Seal

**NEXT-DAY DELIVERY
ON THESE ACCESSORIES
and most homogenizers**

Order toll-free:


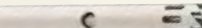


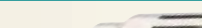
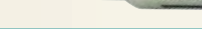



1-800-5-THE PRO



Quick Connect® Generators for every application

Every PRO generator is engineered for multiple applications and long service life. Made from highly durable 316 stainless steel, they can be completely sterilized by hot air, autoclaving, flaming or chemical processes, either as an assembly or disassembled into components. Every PRO generator features PRO's QUICK CONNECT® design to remove or lock a generator in place with an easy quarter-turn. PRO HD generators are designed for rigorous conditions, such as running for an excessive time, processing gritty materials, and when cleaning after each use is not possible. PRO CRYO generators allow users to cryogenically mill soil and sediment samples and to break down frozen materials. Their unique design enables faster, more complete processing of those types of samples than possible with other homogenizing equipment.

For item part numbers refer to page 11.

| | | GENERATORS (DIA X LENGTH) | TYPE | COMPATIBLE MODELS | RECOMMENDED TUBE, BEAKER AND CONTAINER SIZES |
|--------------|---|---|--|---|--|
| 5 mm |  | 5mm x 75mm | Flat bottom | All models | 0.5ml, 1.5ml, 2.0ml tubes <i>(5mm generator for sample vols. <0.4ml)</i> |
| 7 mm |  | 7mm x 75mm 7mm x 95mm 7mm x 120mm* | Saw tooth Saw tooth Saw tooth | All models All models All models | 1.5ml, 2.0ml, 5.0ml tubes 1.5ml, 2.0ml, 5.0 ml, 10ml tubes 10ml, 15ml tubes |
| 10 mm |  | 10mm x 105mm 10mm x 115mm 10mm x 150mm* | Saw tooth Saw tooth Saw tooth | All models All models All models | 10ml, 50ml tubes 10ml, 15ml, 50ml tubes 15ml tubes |
| 20 mm |  | 20mm x 105mm 20mm x 115mm 20mm x 150mm* 20mm x 200mm* | Saw tooth Saw tooth Saw tooth Saw tooth | All models All models PRO250 and larger models PRO250 and larger models | 50ml tubes, small beakers 50ml tubes, small beakers Small/medium beakers Large beakers and containers |
| 30 mm |  | 30mm x 115mm 30mm x 150mm* 30mm x 200mm* 30mm x 200mm HD* | Open slotted Open slotted Open slotted Open slotted | PRO250 and larger models PRO250 and larger models PRO250 and larger models PRO250 and larger models | Small beakers Small, medium beakers Large beakers and containers Large beakers and containers |
| 37 mm |  | 37mm x 115mm 37mm x 150mm* 37mm x 200mm* 37mm x 200mm HD* 37mm x 340mm* | Open slotted Open slotted Open slotted Open slotted Open slotted | PRO350D and larger models PRO350D and larger models PRO350D and larger models PRO350D and larger models PRO400DEL | Small beakers Small, medium beakers Large beakers and containers Large beakers and containers Large containers |
| 43 mm |  | 43mm x 115mm 43mm x 150mm* 43mm x 200mm* 43mm x 200mm HD* 43mm x 340mm* | Open slotted Open slotted Open slotted Open slotted Open slotted | PRO350D and larger models PRO350D and larger models PRO350D and larger models PRO350D and larger models PRO400DEL | Small beakers Small, medium beakers Large beakers and containers Large beakers and containers Large containers |
| 59 mm |  | 59mm x 115mm 59mm x 150mm* 59mm x 200mm* 59mm x 200mm HD* | Open slotted Open slotted Open slotted Open slotted | PRO350D and larger models PRO350D and larger models PRO350D and larger models PRO350D and larger models | Small beakers Small, medium beakers Large beakers and containers Large beakers and containers |
| Cryo |  | 50mm x 150mm 70mm x 150mm | Cryogenic Cryogenic | PRO250 and larger models PRO250 and larger models | Small, medium beakers Small, medium beakers |

* FOR PROPER HOMOGENIZATION AND TO PROTECT BOTH THE GENERATOR AND THE SAMPLE this generator should only be used when the sample height in your tube/container comes at least half-way up the generator shaft. Compare the shaft length of this generator to your total sample height to ensure that your sample height is equal to or greater than half of the generator shaft length.



PRO Generator Replacement Components

| GENERATOR Part No. | Size (mm) | Tube and Collar | Rotor Head | Rotor Shaft | Rotor Collar | Rotor Knife | Washer | Upper Bearing | Mid Bearing | Lower Bearing |
|--------------------|-----------|-----------------|------------|-------------|--------------|----------------------|----------|---------------|-------------|---------------|
| 02-05075 | 5 x 75 | 08-05075 | N/A | 05-05075 | 07-00150 | 04-05150 | 99-03302 | 03-10001 | N/A | 03-21002 |
| 02-07075 | 7 x 75 | 08-07075 | N/A | 05-07075 | 07-00150 | 04-07150 | 99-03302 | 03-10001 | N/A | 03-21003 |
| 02-07095 | 7 x 95 | 08-07095 | N/A | 05-07095 | 07-00150 | 04-07150 | 99-03302 | 03-10001 | N/A | 03-21003 |
| 02-07120 | 7 x 120 | 08-07120 | N/A | 05-07120 | 07-00150 | 04-07150 | 99-03302 | 03-10001 | 03-21103 | 03-21003 |
| 02-10105 | 10 x 105 | 08-10105 | N/A | 05-10105 | 07-00150 | 04-10150 | 99-03302 | 03-10001 | N/A | 03-11004 |
| 02-10115 | 10 x 115 | 08-10115 | N/A | 05-10115 | 07-00150 | 04-10150 | 99-03302 | 03-10001 | N/A | 03-11004 |
| 02-10150 | 10 x 150 | 08-10150 | N/A | 05-10150 | 07-00150 | 04-10150 | 99-03302 | 03-10001 | 03-21104 | 03-11004 |
| 02-20105 | 20 x 105 | 08-20105 | N/A | 05-20105 | 07-00150 | 04-20150 | 99-03302 | 03-10001 | N/A | 03-11005 |
| 02-20115 | 20 x 115 | 08-20115 | N/A | 05-20115 | 07-00150 | 04-20150 | 99-03302 | 03-10001 | N/A | 03-11005 |
| 02-20150 | 20 x 150 | 08-20150 | N/A | 05-20150 | 07-00150 | 04-20150 | 99-03302 | 03-10001 | 03-21104 | 03-11005 |
| 02-20200 | 20 x 200 | 08-20200 | N/A | 05-20200 | 07-00150 | 04-20150 | 99-03302 | 03-10001 | 03-21104 | 03-11005 |
| 02-30115 | 30 x 115 | 08-01115 | 16-30150 | 05-20115 | 07-00150 | 04-30150 | 99-03302 | 03-10001 | N/A | 03-11037 |
| 02-30150 | 30 x 150 | 08-01150 | 16-30150 | 05-20150 | 07-00150 | 04-30150 | 99-03302 | 03-10001 | 03-21104 | 03-11037 |
| 02-30200 | 30 x 200 | 08-01200 | 16-30150 | 05-20200 | 07-00150 | 04-30150 | 99-03302 | 03-10001 | 03-21104 | 03-11037 |
| 02-30200HD | 30 x 200 | 08-01200HD | 16-30150 | 05-25200P | 07-00150 | 04-30200 | 99-03302 | 03-10001 | N/A | 03-11250 |
| 02-37115 | 37 x 115 | 08-01115 | 16-37150 | 05-20115 | 07-00150 | 04-37150 | 99-03302 | 03-10001 | N/A | 03-11037 |
| 02-37150 | 37 x 150 | 08-01150 | 16-37150 | 05-20150 | 07-00150 | 04-37150 | 99-03302 | 03-10001 | 03-21104 | 03-11037 |
| 02-37200 | 37 x 200 | 08-01200 | 16-37150 | 05-20200 | 07-00150 | 04-37150 | 99-03302 | 03-10001 | 03-21104 | 03-11037 |
| 02-37200HD | 37 x 200 | 08-01200HD | 16-37150 | 05-25200P | 07-00150 | 04-37200 | 99-03302 | 03-10001 | N/A | 03-11250 |
| 02-37340 | 37 x 340 | 08-01340 | 16-37150 | 05-20380 | 07-00150 | 04-37150 | 99-03302 | 03-10001 | 03-21104 | 03-11037 |
| 02-43115 | 43 x 115 | 08-01115 | 16-43150 | 05-20115 | 07-00150 | 04-43150 | 99-03302 | 03-10001 | N/A | 03-11037 |
| 02-43150 | 43 x 150 | 08-01150 | 16-43150 | 05-20150 | 07-00150 | 04-43150 | 99-03302 | 03-10001 | 03-21104 | 03-11037 |
| 02-43200 | 43 x 200 | 08-01200 | 16-43150 | 05-20200 | 07-00150 | 04-43150 | 99-03302 | 03-10001 | 03-21104 | 03-11037 |
| 02-43200HD | 43 x 200 | 08-01200HD | 16-43150 | 05-25200P | 07-00150 | 04-43200 | 99-03302 | 03-10001 | N/A | 03-11250 |
| 02-43340 | 43 x 340 | 08-01340 | 16-43150 | 05-20380 | 07-00150 | 04-43150 | 99-03302 | 03-10001 | 03-21104 | 03-11037 |
| 02-59115 | 59 x 115 | 08-01115 | 16-59150 | 05-20115 | 07-00150 | 04-59150 | 99-03302 | 03-10001 | N/A | 03-11037 |
| 02-59150 | 59 x 150 | 08-01150 | 16-59150 | 05-20150 | 07-00150 | 04-59150 | 99-03302 | 03-10001 | 03-21104 | 03-11037 |
| 02-59200 | 59 x 200 | 08-01200 | 16-59150 | 05-20200 | 07-00150 | 04-59150 | 99-03302 | 03-10001 | 03-21104 | 03-11037 |
| 02-59200HD | 59 x 200 | 08-01200HD | 16-59150 | 05-25200P | 07-00150 | 04-59200 | 99-03302 | 03-10001 | N/A | 03-11250 |
| 02-59340 | 59 x 340 | 08-01340 | 16-59150 | 05-20380 | 07-00150 | 04-59150 | 99-03302 | 03-10001 | 03-21104 | 03-11037 |
| 02-50150 | 50 x 150 | 08-22150 | 16-50150 | 05-22150 | 07-22150 | 04-22001 04-22003 | N/A | 03-00315 | N/A | 03-00315 |
| 02-70150 | 70 x 150 | 08-22150 | 16-70150 | 05-22150 | 07-22150 | 04-22002 04-22003 | N/A | 03-00315 | N/A | 03-00315 |

Ordering PRO Generator Parts with the Generator Part Numbering System

From the list of generators to the left, an ordering part number can be generated by simply taking the prefix 02- followed by the diameter of the shaft and the length of the generator:

02 – X X X X X

Ex: 5mm x 75mm = 02 – 05075

If the generator is available with a designation of HD, then simply add an “HD” at the end of the part number:

Ex: 43mm x 200mm HD = 02 – 43200HD

Important information for generators with a length greater than 115mm

To ensure proper homogenization and to protect both the generator and sample, generators with a length greater than 115mm should only be used when the sample height in your tube or container comes at least halfway up the generator shaft. Check the generator sizes listed above for the length you are interested in and compare it to the total sample height you will be homogenizing to ensure that your sample height is equal to or greater than half of the generator length.



SB-1 Homogenizer

Silent Brushless Digital Homogenizer

- Maintenance free drive
- Low noise and smooth operation
- Digital display and variable speed control
- Perfect for clean room applications
- Technology that reduces particle environment
- 0.05 ml – 1.5 L volume range and viscosity up to 5,000 mPas
- Can be used with different probes, 5mm - 20mm diameter
- Includes 9 X 7 inch post mounted stand assembly
- Made in the USA with a 2-year warranty

This SB-1 Homogenizer's brushless motor guarantees numerous years of maintenance free operation as it has no carbon brushes, so it runs cleaner and quieter. This allows end-users to operate without ear plugs or without the annoyance of louder noise heard from brush type homogenizers. The SB-1 Homogenizer's brushless design makes it ideal for processing volatile organic compounds.

SPECIFICATIONS

| | |
|--------------------------|--|
| Volume Processing Range: | 0.05ml –1.5L* |
| Power Rating | 150 Watt Brushless Motor |
| RPM Range: | 0 –16500 RPM |
| Noise Rating: | 55 dB |
| Weight With Stand: | 17 lbs / 7.71 kg |
| Dimensions With Stand: | 9.5 x 7 x 25 in (w x h x d) 24.13 x 17.78 x 63.5 cm (w x h x d) |

ITEM NO. DESCRIPTION

| | |
|----------|---|
| 01-01370 | SB-1 Silent Brushless Digital Homogenizer with Stand Assembly, 120V |
| 01-02370 | SB-1 Silent Brushless Digital Homogenizer with Stand Assembly, 220V |

*Maximum volume equivalent to H₂O. The higher the viscosity of the sample, the lower maximum processing volume.



Maintenance free smooth operation

The SB-1 Homogenizer can be used for disruption of tissue samples in biotechnology, sample preparation in medicine, enzymatic treatment in the food industry as well as various applications in pharmaceutical, cosmetic, paint, petro chemical, and other industrial applications.

www.proscientific.com
sales@proscientific.com



Order Toll-Free: 1-800-5-THE PRO (1-800-584-3776)

PRO Scientific Generator Probes

- Made from 316 Stainless Steel and PTFE
- Quick Connect Design for Ease of Use and Safety
- Disassemble and Reassemble in Seconds
- Chemically Compatible with All Cleaning Methods

PRO Scientific Generator Probes are manufactured out of 316 stainless steel for the utmost in chemical compatibility. They are precision crafted with a very narrow clearance between the inner rotating shaft and outer tube/chamber, which allows for quick & effective sample breakdown as well as repetitive processing, meaning you will get the results you want each and every time.

Unlike many competitors that offer a 1 year warranty or no warranty on their probes, PRO Scientific Generator Probes have a double bearing design for strength & stability, providing better performance, safety, and longer product life, which allows for the 2 year manufacturer defect warranty on all PRO Scientific Generator Probes.

PRO Scientific Generator Probes are designed to be anti-foaming and are very easy to take apart and clean in-between samples; a simple unscrewing of the top set screw allows for disassembly in a few seconds. Appropriate cleaning procedures include chemically cleaning, autoclaving and flaming.

Complete replacement parts for the generator probes are available, thereby extending the life of this valuable piece of equipment. For tougher samples, saw-tooth generator probes are recommended.



These PRO Scientific Generator Probes may be used on other PRO Scientific Homogenizers.

| Accessories for Benchtop Homogenizers | | |
|---------------------------------------|-----------------------------------|----------|
| Description | Details | Cat. No. |
| 5 x 75mm Flat-Bottom Generator Probe | For 0.5–2 mL Tubes | 02-05075 |
| 7 x 95mm Saw-Tooth Generator Probe | For 1.5–10 mL Tubes | 02-07095 |
| 10 x 115mm Saw-Tooth Generator Probe | For 5–50 mL Tubes | 02-10115 |
| 20 x 115mm Saw-Tooth Generator Probe | For 50 mL Tubes and Small Beakers | 02-20115 |
| 20 x 200mm Saw-Tooth Generator Probe | For Medium–Large Beakers | 02-20200 |

PRO25D Homogenizer

Powerful Digital Homogenizer

- Compact digital unit with high watt motor
- 0.05 ml – 3.5 L volume range and viscosity up to 50,000 mPas
- Can be used with different probes, 5mm - 30mm diameter
- Smooth operation and control
- Can homogenize, emulsify, blend and/or mix
- Includes U-shape post mounted stand assembly
- Bright LED display and user-friendly controls
- Made in the USA with a 2-year warranty

The PRO25D has a large volume range with processing capability up to 3.5 Liters. A digital display & speed control provide the ability to fine-tune speeds between 0 to 30,000 RPM. Its 3-Turn speed adjust, allows precise RPM control in the hundreds.

SPECIFICATIONS

| | |
|--------------------------|---|
| Volume Processing Range: | 0.05ml –3.5L* |
| Power Rating | 576 Watt Motor |
| RPM Range: | 0 – 30,000 RPM |
| Noise Rating: | 68 dB |
| Weight With Stand: | 18 lbs / 8.16 kg |
| Dimensions With Stand: | 14 x 12 x 24 in (w x h x d) 35.56 x 30.48 x 60.96 cm (w x h x d) |

ITEM NO.

DESCRIPTION

| | |
|----------|--|
| 01-25100 | PRO25D Digital Homogenizer with Stand Assembly, 120V |
| 01-25200 | PRO25D Digital Homogenizer with Stand Assembly, 220V |

*Maximum volume equivalent to H₂O. The higher the viscosity of the sample, the lower maximum processing volume.



Compact versatility

The versatile and powerful PRO25D Homogenizer is ideal for a wide range of lab applications, including but not limited to compounding, emulsions and suspensions, cell disruption, protein extraction, medical research or pharmaceutical processing.

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Order Toll-Free: 1-800-5-THE PRO (1-800-584-3776)



PRO Scientific Generator Probes

- Made from 316 Stainless Steel and PTFE
- Quick Connect Design for Ease of Use and Safety
- Disassemble and Reassemble in Seconds
- Chemically Compatible with All Cleaning Methods

PRO Scientific Generator Probes are manufactured out of 316 stainless steel for the utmost in chemical compatibility. They are precision crafted with a very narrow clearance between the inner rotating shaft and outer tube/chamber, which allows for quick & effective sample breakdown as well as repetitive processing, meaning you will get the results you want each and every time.

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PRO Scientific Generator Probes are designed to be anti-foaming and are very easy to take apart and clean in-between samples; a simple unscrewing of the top set screw allows for disassembly in a few seconds. Appropriate cleaning procedures include chemically cleaning, autoclaving and flaming.

Complete replacement parts for the generator probes are available, thereby extending the life of this valuable piece of equipment. For tougher samples, saw-tooth or open slotted generator probes are recommended.



These PRO Scientific Generator Probes may be used on other PRO Scientific Homogenizers.

Accessories for Benchtop Homogenizers

| Description | Details | Cat. No. |
|---|-----------------------------------|----------|
| 5 x 75mm Flat-Bottom Generator Probe | For 0.5–2 mL Tubes | 02-05075 |
| 7 x 95mm Saw-Tooth Generator Probe | For 1.5–10 mL Tubes | 02-07095 |
| 10 x 115mm Saw-Tooth Generator Probe | For 5–50 mL Tubes | 02-10115 |
| 20 x 115mm Saw-Tooth Generator Probe | For 50 mL Tubes and Small Beakers | 02-20115 |
| 20 x 200mm Saw-Tooth Generator Probe | For Medium–Large Beakers | 02-20200 |
| 30 x 200mm Open-Slotted Generator Probe | For Large Beakers and Containers | 02-30200 |