

Multi-Prep Rapid Homogenizer

Multi-Sample Homogenizing System

- Rapid automated multi-sample homogenizing
- Process up to 6 samples at the same time
- Samples homogenized in seconds
- Store up to 10 different programs
- Easy Load Spider Tube Racks
- Accommodates standard tubes from 5ml to 50ml*
- Can perform 60 oscillations per minute
- Automated engagement & disengagement of Probes
- Multi-Prep Probes ensure great results while avoiding cross contamination
- Compact design, occupies small footprint

Multi-sample homogenizing made simple.



SPECIFICATIONS

Dimensions:	10.6 X 14.6 X 14.5 inch
Weight:	42lbs / 19kg
Speed Control:	2000 - 18000 RPM
Power Rating:	805 Watts
Volume Processing Range:	5ml - 50ml Tubes*
Sample Min:	2ml with Small Tube Rack** 4.5ml with 50ml Tube Rack**
Noise rating:	68 dB
Certifications:	CE
Memory:	Manual Mode Program Mode: 10 Complete running programs can be stored
Oscillation:	ON/OFF Keypad Selectable

ITEM NO. DESCRIPTION

01-01620	Multi-Prep Rapid Homogenizing System, 120v
01-02620	Multi-Prep Rapid Homogenizing System, 220v

Accessories:

62-00150	Small Spider Tube Rack (5ml - 15ml)*
62-00500	50ml Spider Tube Rack
62-070MP-12	7mm Multi-Prep Open-Slotted Generator Probes (12-Pack)
62-010MP-12	10mm Multi-Prep Saw-Tooth Generator Probes (12-Pack)

*Depends on tube dimensional size

**Oscillating Mode will reduce the minimum volume of each tube

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Multi-Prep Rapid Homogenizer

Multi-Sample Homogenizing System

Time Saver

Free up your valuable lab time by homogenizing with the Multi-Prep Rapid Homogenizer and significantly increase your laboratory productivity. With its automated processes, the Multi-Prep can produce more consistent homogenizing results compared to traditional non-automated and standard manual homogenizing methods. Homogenizer protocols vary within any lab and the Multi-Prep's programmability function can store up to 10 different homogenizing programs in memory. For new homogenizing trials or quick-runs, the Multi-Prep can be used in the manual mode for individual sample processing.

Simple Automation

This Automated Homogenizing System allows for up to 6 samples to be homogenized at one time in mere seconds giving you the maximum ability to process up to 300 samples per hour. Automation is made easy with the stress-free self-engagement and disengagement of the Multi-Prep Probes making this truly a hands-free homogenizing system. Our superior designed oscillating Spider Tube Rack mimics the up-down motion of hand-held homogenizing and can perform 60 oscillations per minute for enhanced homogenizing performance.

Advantages

The Multi-Prep Rapid Homogenizer utilizes a multi-pack of 7mm or 10mm Multi-Prep Probes. This 12-pack of probes eliminates cross-contamination as well as the time consuming need to stop and clean a generator between samples. A clean Multi-Prep Probe can be used each time. PRO's Multi-Pack Probes are known as the better alternative to disposable plastic generator probes, because our reusable Multi-Prep Probes are made from 316 Stainless Steel and PTFE. This superior design provides the ability to process more difficult samples, including tough tissues and frozen samples. Their infinitely reusable nature means you can use them again and again. When homogenizing is complete, the Multi-Prep Probes can be sterilized by any cleaning method, including flaming, autoclaving and chemical cleaning.

Added Benefits

Another added benefit of the Multi-Prep is that there is no need to alter or change the tube you are currently using in your research. Whether processing in small or large centrifuge tubes, all tube sizes can be easily loaded into the appropriate small or large tube Spider Tube Rack.

All processing is contained in a sound-abating enclosure with a rounded clear polycarbonate door for a full view inside. The ergonomically arranged LCD and control panel allows for full viewing of programming parameters.



A typical run time of six samples is complete in seconds and with a maximum ability to process six samples per cycle. Up to 300 samples can be homogenized per hour!

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DPS-20

Dual Homogenizing System

- Automated homogenizing of multiple samples
- Includes Mechanical & Ultrasonic (Sonicator) homogenizers
- Use each homogenizing method dependently or independently
- Two-Step Homogenization can be achieved
 - Breakdown solid sample - Mechanical
 - Reach sub-micron level - Ultrasonic
- Provides fast, efficient, and consistent homogenizing
- Process up to 20 samples in one run
- Quiet, compact, sound-abating enclosure with LED lighting
- Programmable or manual mode, save up to 10 programs
- Optional probe rinses to avoid cross-contamination
- Carousel Tube Rack, keep tubes in ice, water, or cold bead
- Accommodate standard tube sizes, 1.5ml-50ml
- Custom Systems & Probes available upon request

SPECIFICATIONS

Dimensions:	12.75 x 29.5 x 18.25 inch (w x h x d)
Weight:	85 lbs / 38.5 kg
Speed Control:	2000-16000 RPM / Amplitude 25-100%
Power Rating:	Mechanical 150 Watts / Ultrasonic 130 Watts
Volume Processing Range:	1.5ml - 50ml Tubes
Noise rating:	52 dB
Certifications:	CE
Memory:	Manual Mode Program Mode: 10 Complete running programs can be stored

ITEM NO.

DESCRIPTION

01-01720	DPS-20 120v 50/60 Hz Dual Homogenizing System
01-02720	DPS-20 220v 50/60 Hz Dual Homogenizing System

TUBE SIZE (VOLUME)	TUBE DIMENSIONS	ULTRASONIC PROBE SIZE	MECHANICAL GENERATOR SIZE	CAROUSEL PACKAGE PART NUMBER
1.5/2.0 ML	11 x 38 MM	3 MM	5 x 75 MM	72-TR015-015 C
15 ML	17 x 120 MM	3 MM	7 x 115 MM	72-TR15-15 C
16 ML	16 x 125 MM	3 MM	7 x 115 MM	72-TR15-16 R
16 ML	17 x 120 MM	3 MM	7 x 115 MM	72-TR15-19 R
50 ML	29 x 115 MM	6 MM	10 x 115 MM	72-TR50-50 C
50 ML	29 x 115 MM	6 MM	10 x 115 MM	72-TR50-50CF
50 ML	29 x 115 MM	6 MM	20 x 115 MM	72-TR52-50 C
50 ML	29 x 115 MM	6 MM	20 x 115 MM	72-TR52-50CF

DON'T SEE YOUR TUBE LISTED? ... DON'T WORRY!

Custom carousel packages are available for a variety of tubes including Cryo Tubes, 5ml Micro Tubes and many more!

All items are available individually for a build-your-own package.

Please contact our sales team to further discuss your specific needs.

Two-Step homogenizing made simple with one automated system.



Cooling Carousel Racks protect and keep your samples cool during homogenization.



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DPS-20

Dual Homogenizing System

Revolutionary

The DPS-20 Dual Homogenizing System simplifies sample preparation with its Two Step Homogenizing - by combining mechanical and ultrasonic (sonicator) homogenizing into an automated, closed compact and timesaving unit. For the first time ever in one homogenizing system, large samples can be easily broken down to a submicron level with one product. This leads to a faster and more efficient sample breakdown with minimal or no heat introduced, and more precise particle size reduction.

Versatility

The DPS-20's unique design allows the use of each homogenizing method dependently or independently of each other within a programmable or manual mode. This three-in-one design of the DPS-20 allows the system to be used in any of the following configurations:

- Only Ultrasonic Homogenizing System(Independently)
- Only Mechanical Homogenizing System(Independently)
- Mechanical & Ultrasonic Homogenizing System(Dependently)

If your particular application would not benefit from "Dual Homogenizing", then you can choose to use either homogenizing method separately.

Automation

The automation of the DPS-20 provides repeat processing and consistent results, which frees up a large amount of valuable lab time. Each DPS-20 rack accommodates 20 tubes at a time. Once loaded, samples are automatically indexed to the proper position for mechanical and/or ultrasonic (sonicator) homogenizing based upon the user-defined program. Programs may be looped for additional homogenization. The end-user has full programming control over process time (up to 99.99 hours), amplitude (ultrasonic) and rpm (mechanical), probe depths, spin-off heights, sample quantities, and rinse positions. Probes can be cleaned with any method including flaming, autoclaving, and chemical cleaning.

Sample Protection

During homogenization with the DPS-20, sample integrity is maintained with a unique carousel rack design that incorporates a cooling tray. If desired, trays can be easily filled with cooling beads or an ice bath when samples need to remain at sub-ambient temperatures.

When concerned about cross contamination, two unique programmed rinse bath modes may be added to your program; a rinse bath after every sample or a stationary shared rinse bath after every sample. As rinse baths occupy positions in a carousel rack, this will affect the total number of samples that may be homogenized during a run.

Added Benefits

Another added benefit of the DPS-20 is that there is no need to alter or change the tube you are currently using in your research. Whether processing in small microtubes or larger centrifuge tubes, the DPS-20 carousel racks can accommodate a variety of tubes from 1.5 to 50ml.

Additional carousel racks can be purchased for quicker load time.



Superior Technological Design

A high-performance brushless motor powers the mechanical homogenizer while the 130-watt ultrasonic processor delivers constant amplitude throughout processing.

The sound-abating enclosure keeps homogenizing as quiet as a normal household appliance. The DPS-20 also features LED interior lighting and a clear polycarbonate door for a full view of the inside.

Onboard computing lets the DPS-20 store up to 10 different homogenizing programs in memory, or it can be used in the manual mode for individual sample processing.



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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**



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8 4 3 7 7 6

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



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.

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.

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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, petrochemical, and other industrial applications.

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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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