

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, Small Micro Tubes and more.

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,

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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