



PARTICLE SIZE Analyzer

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PARTICLE SIZE ANALYZER LPSA-100 Series

Labocon Particle Size analyzer LPSA-100 Series works on the principle of Mie scattering to precisely determine the particle size distribution in a sample. Laser diffraction method can measure the sizes of many particles in a sample very quickly and can provide data on particle size distributions, which is of value to many industries.



Features

- Wet sample measure method with He-Ne Laser as light source
- Sample feeding system of two types: Circulation sample feeding system and Static sample feeding system
- High, medium and low circulation control options with open or close output valve control
- Anticorrosive sample feeding system with ultrasonic baths (optional)
- Analysis report includes particle size distribution table and graph, average diameter, median diameter, boundary diameter, specific surface area, etc
- User friendly computer interface.

Application:

Labocon Particle Size Analyzer LPSA-100 Series is used to measure the particle size distribution of powders, suspensions or sprays which can be dispersed in liquids.

Specification:

Model		LPSA-101	LPSA-102	LPSA-103	LPSA-104	LPSA-105
Size Range (μm)		0.2-500	0.2-500	0.1-500	0.05-500	1-1000
Detector		32	43	54	53	40
Light source	Power	0.015-0.003 W	0.015-0.003 W	0.015-0.003 W	0.015-0.003 W	0.015-0.003 W
	Wavelength(nm)	632.8	632.8	632.8	632.8	632.8
Temperature Range		5°C to 35°C				
Humidity		< 85%				
Static Sample Cell Volume (ml)		13.5				
Sample Circulation Feeder	Volume (ml)	660	660	660	660	660
	Power	150 W	150 W	150 W	150 W	150 W
	Dimension (LxWxH) (mm)	370x200x300	370x200x300	370x200x300	370x200x300	370x200x300
Overall Dimension (LxWxH) (mm)		450x300x450	450x244x446	650x465x375	430x350x430	1201x180x287
Power		30 W				
Power Supply		220-240V, 50-60Hz				
Catalog No.		9521123123	9521139123	9521124123	9521125123	9521126123

Accessories:

Model	Name	Catalog No.
LSF-01	Sample circulation Feeder	9521127123
LSS-01	Static Sample Cell	9521128123
LUB-01	Ultrasonic Bath	9521129123
LP-01	Power Cables (2)	9521130123
LMC-01	Measuring Cup (10, 100 ml)	9521131123

PARTICLE SIZE ANALYZER LPSA-200 Series

Labocon Particle Size Analyzer LPSA-200 Series works on the principle of Mie scattering to precisely determine the particle size distribution in a sample. Laser diffraction method can measure the sizes of many particles in a sample very quickly and can provide data on particle size distributions, which is of value to many industries.



Features

- Mist spray feeding method with He-Ne as light source
- Analysis report includes particle size distribution table and graph, average diameter, median diameter, boundary diameter, specific surface area, etc

Application:

Labocon Particle Size Analyzer LPSA-200 Series is used to measure the particle size distribution of powders, suspensions or sprays which can be dispersed in liquids.

Specification:

Model		LPSA-201
Size Range(μm)		1-1500 (Three Grades)
Detector		32
Light Source	Power	0.015-0.003 W
	Wavelength (nm)	632.8
Temperature Range		5°C to 35°C
Humidity		< 85%
Overall Dimension (LxWxH) (mm)		3300x200x395
Catalog No.		9521132123

PARTICLE SIZE ANALYZER LPSA-300 SERIES

Labocon brings to you Particle Size Analyzer LPSA-300 Series that delivers rapid, high throughput particle size distributions for dry dispersion with the minimum of effort. In dry measurement, particle is subjected to “pressure size titration” where the effect of increasing controlled energy input is examined.



Features

- Dry mode of measurement using He-Ne as source of light (LPSA-301), Dry and wet mode of measurement (LPSA-302)
- Low noise air compressor of 340 W used (optional)
- Analysis report in LPSA-302 includes Volume average particle size, surface area average particle size, accumulative percentage particle size, specific surface area, section specific surface area ([0,3],[3,32],[32,65],[65,300] μm), particle size distribution curve and table, data report.
- Analysis report in LPSA-301 includes particle size distribution table and graph, average diameter, median diameter, boundary diameter, specific surface area
- User friendly interface.

Application:

Labocon Particle Size Analyzer LPSA-300 Series is particularly designed for measuring cement particle distribution and is applicable for the powders which must be dispersed by air, such as pharmaceuticals, cement, metal powders, minerals, powder coatings, chemicals and dry ingredients.

Specification:

Model		LPSA-301	LPSA-302
Size Range (μm)		0.5-300	0.1-1000
Detector		40	80
Light Source	Power	0.015-0.003 W	0.015-0.003 W
	Wavelength (nm)	632.8	632.8
Temperature Range		5°C to 35°C	
Humidity		< 85%	
Compressed Air	Air Pressure (Mpa)	0.6-0.8	0.6-0.8
	Air Flow (m^3/min)	0.12	0.12
Overall Dimension (LxWxH) (mm)		1000x350x320	
Power	Optical Unit	30 W	30 W
	Air compressor	1500 W	1500 W
	Vacuum Cleaner	1200 W	1200 W
Power Supply		220-240V, 50-60Hz	
Catalog No.		9521133123	9521134123

Accessories:

Model No.	Name	Catalog No.
LP-01	Power Cables (2)	9521110123