

SPEC SHEET

Lab Multifunctional Fluid Bed Granulator

DPLS Series

INTRODUCTION

The DPLS Series is a compact, high-precision processing system specifically engineered for laboratory-scale R&D and pilot production.

It replicates industrial-scale fluid bed processes on a small scale, allowing for efficient product development and process optimization with minimal material usage.

Pharmaceutical R&D: Ideal for small-batch drug formulation development, pilot testing, and process validation.

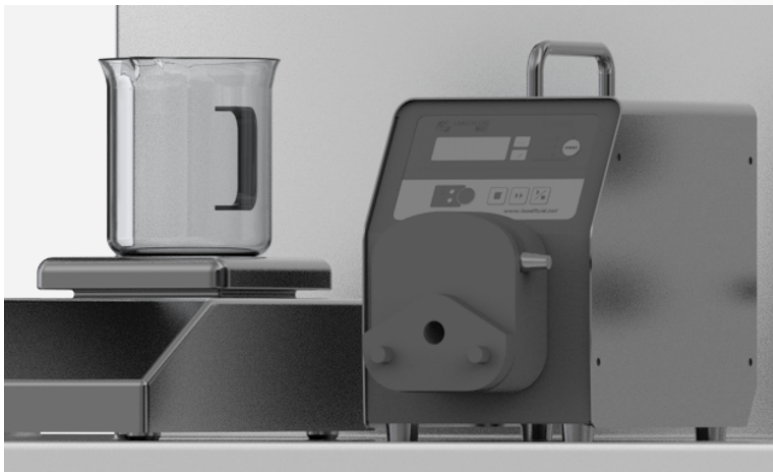
Chemical & Food Research: Suitable for precise experimental drying and granulation of specialty powders where material quantities are limited.

KEYWORDS Granulator | Powder | Blending | Mixing



ATTRIBUTES

- **Scale-Up Capability:** Specifically designed for laboratory environments, enabling researchers to conduct feasibility studies and process optimization that can be seamlessly scaled up to industrial-size Wonsen units.
- **Comprehensive Functionality:** Supports a wide range of laboratory processes including mixing, drying, top-spray granulation, and bottom-spray coating within a single footprint.
- **Material Efficiency:** Small batch capability (as low as 0.45 kg) minimizes waste of expensive Active Pharmaceutical Ingredients (APIs) during the formulation development phase.
- **Precision Engineering:** High-quality laboratory performance with advanced hot air filtration to ensure product purity and reproducibility.
- **Wide Industry Utility:** Widely used in pharmaceutical, food, and chemical research sectors for reliable product testing and validation.



TECHNICAL PARAMETERS

Specification	Details
Effective volume (Coating)	3 L - 12 L
Effective volume (Granulation & Drying)	3 L - 14 L
Total power	6.2 kW - 19.5 kW
Compressed air pressure	0.6 - 0.8 MPa
Compressed air consumption	0.15 - 0.6 m ³ /min
Heating temperature range	Room temperature - 100 °C

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