

## Features of the Micro Mist Spray Dryer for Laboratory

Compact Spray Dryer developed to produce very fine powder of single micron in a simple operation.

- Many kinds of experiments can be performed using the four-fluid nozzle feature.
- Very fine and uniform powder is available from a small quantity of sample.
- Transparent glass chamber is available to observe the atomizing condition.
- Easy to clean, disassemble, and reassemble.
- Simple Touch panel control system.
- Experimental data can be confirmed on the monitor screen.
- Scale up from laboratory to production scale with the same particle size is possible.
- Many options are available for various purpose.

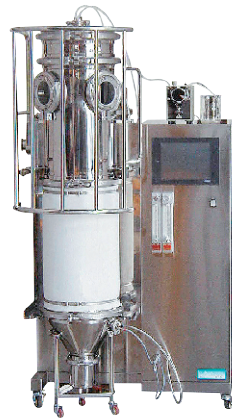
### MDL-050 Series



**MDL-050B**  
Basic type



**MDL-050C**  
Cyclone type



For pharmaceutical  
**MDL-050S**  
GMP model



**MDL-050M**  
Continuous operation type

### MDL-050 Standard specifications

#### Specifications

Name	Micro Mist Spray Dryer
Model	MDL-050
Power source	200V three phase
Consumption	5KW
Dimension	W900mm ~ ×D810mm×H1660mm
Weight	220kg ~ 280kg

#### Performance

Evaporation	3kg/h
Atomizing device	Four-fluid nozzle
Drying air pattern	Co-current air flow
Collecting	Filter collection
	Cyclone+Filter collection
Liquid feed pump	Roller tube pump
Fan blower inlet	Air filter
Hot air generator	Electric heater 4KW
Hot air temperature	40 ~ 200°C
Hot air volume	1.0m <sup>3</sup> /min 20°C 1atm

Nozzle air	Flow meter 6 ~ 60L/min×2 20°C 0.6MPa
Operation	Max 5KPa
Control	Touch panel, Sequencer