**MMSD Micro Mist Spray Dryer**

**MDL-050 (C) MGC LAB SCALE**

### Specifications

- **Operating Temperatures**: Inlet 140°C, Outlet 70°C
- **Evaporation Capacity**: 4kg/h
  - (Ethanol base, other solvents feasible)
- **Heater Type**: Electric, 5kW
- **Atomizing Mechanism**: 4-Fluid Nozzle
- **Gas Flow Rate**: 1000NL/min
- **Gas Nozzle Pressure**: 0.5MPa, 80NL/min
- **Collection Methods**: Bag Filter
- **Collection Process**: Continuous

### Features

- Allows for Single-Micron particle sizes
- Only requires a small sample size
- Operator “friendly” touch control panel, including system flow diagram
- Equipped with latest cyclone technology allowing to collect single-micron particle sizes
- Compatible with GMP (Good Manufacturing Practices)
  - HEPA filter allows for clean dry hot air
  - Sanitary and easily washable
  - Easy assembly and disassembly
- Closed type system capability simply by connecting with the solvent recovery equipment
- Able to spray dry organic solvent while in a N₂ atmosphere
- Able to cool down organic solvent gas to -30°C, including capability of handling methylene chloride applications
- Less N₂ amount required for processing and discharge due to a built-in compressor for atomizing gas

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FLOW DIAGRAM

**MDL-050MGC**

**NOZZLE**

**COMPRESSOR**

**HEATER**

**HEPA FILTER**

**PUMP**

**DRYER**

**FEED LIQUID**

**BAG FILTER**

**CONDENSER**

**HEPA FILTER**

**ORGANIC SOLVENT**

**Brine**

**N₂**

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**MDL-050 (C) MGC**

**Collection Cyclone + Bag Filter**

**Bag Filter**

**Cyclone**

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**fujisaki electric**