

WaferClean® 2100



General The Eco-Snow® advanced WaferClean® 2100 System removes particulate contamination, post-etch veils and fences, as well as thin-film organic residues from Silicon, Compound, MEMS and MR Head wafers using a unique carbon dioxide (CO₂) snow cleaning process. Eco-snow cleaning is a fast, environmentally friendly, “all dry” non-contact process that offers numerous advantages over conventional wet cleaning systems.

- Features**
- Stand-alone automated system
 - Environmentally controlled Class 1 cleaning chamber
 - Cassette-to-cassette handling
 - User friendly flat panel touch screen color display
 - Wafer temperature control
 - Internal dew point monitor
 - Compact footprint
 - Advanced ESD control
 - GEM/SECS-II software
 - Simple facilitization
 - CE Marked, Semi S2, S8 compliant

- Benefits**
- Superior cleaning performance
 - Reduced cycle times
 - No chemical waste
 - Non-damaging clean of fragile structures
 - High PRE down to nano particle size
 - High throughput due to short cycle time
 - High MTBF, low MTTR

Specifications

Performance

Throughput	Up to 60 wafers per hour
Part sizes	3" to 8" Round [75mm to 200 mm] 8" x 8" Square [200 mm x 200 mm]

Facilities Requirements

Power	200-240V AC, 13 A, 50/60Hz, 1 phase
Carbon Dioxide	Grade 5 Bulk or Cylinders
Purge Gas	2 SCFM [56 SLPM] 70 psi [5 bar] CDA or N ₂
PI Gas (option)	6 SCFM [170 SLPM] 100 psi [7 bar] CDA or N ₂
Pneumatic Gas	0.5 SCFM [14 SLPM] 85 psi [6 bar] CDA or N ₂
Exhaust	Peak Usage – 7 SCFM [198 SLPM] Nominal Usage – 2 SCFM [56 SLPM] Connector – 2 x 2" round duct

System Dimensions

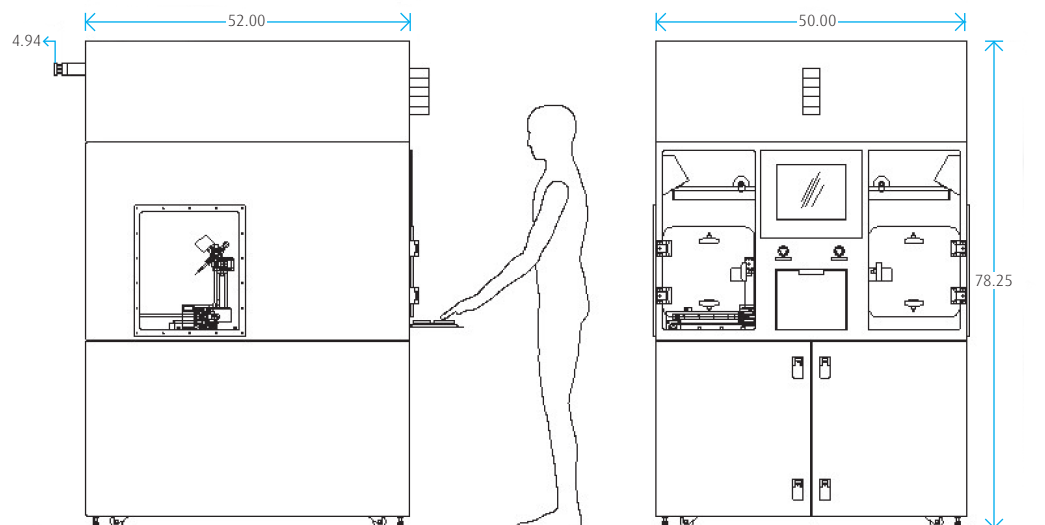
Footprint	50" wide x 52" deep [1270 mm x 1321 mm]
Height	79" [2007 mm]
Weight	Approximately 1200 lbs [544 kg]

Options

- GEM/SECS-II software
- Advanced ESD Control
- Wafer pre aligner
- CO₂ supply integration
- Rear service FPD touch screen
- Bar code scanner
- Wafer cassette scanner
- Uninterruptable power supply
- On-site spares kit

Additional Features

- Microsoft® Windows® operating system
- Unlimited, recipe driven, user interface
- CO₂ snow sensor



ECO-SNOW SYSTEMS

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