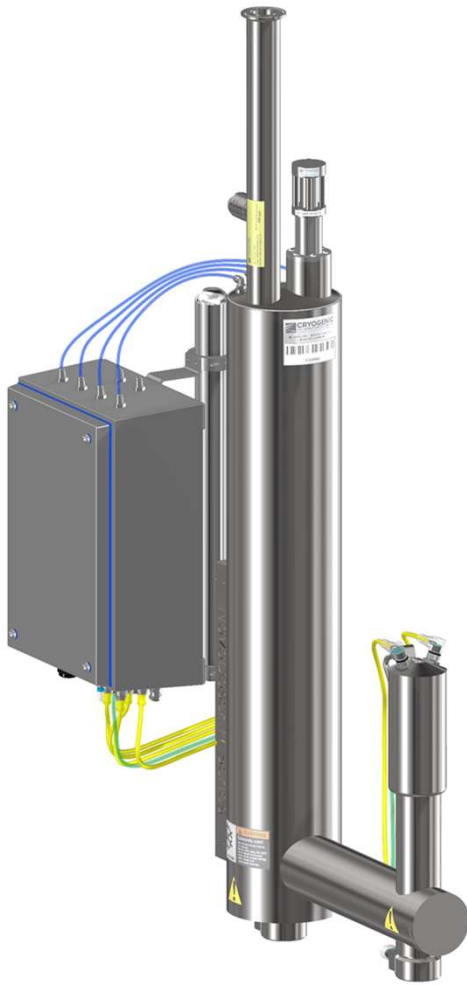




NovoDoser®

H series 1000DSC

A new generation liquid nitrogen dosing system with advanced control for precise and frost-free dosing, designed for line speed up to 2000 CPM and superior vacuum quality with 5 years warranty.

Specifications

- LN2 inlet pressure up to 100 psi (6.8 bar)
- Integrated inlet safety relief valve 150 psi (10.3 bar)
- Discrete dosing up to 2000 CPM
- Minimum dose duration 10 ms
- Dose accuracy +/- 2%
- Electro-pneumatic dosing valve, IP67 rated
- Dose Timing Synchronization
- Dose Volume Synchronization
- Rapid nozzle defrost
- Nozzle pre-cooling
- Quick System Purging, Dry down & Warm-up
- Alarm log to assist system troubleshooting and performance monitoring
- Recipe storage up to 10 recipes
- Multi-lingual HMI: English (US/UK), German, Spanish, Chinese, etc.
- Controller with Siemens S7-1200 PLC, 7" TFT color touch screen HMI, NEMA 4X IP65-rated stainless steel enclosure

*Actuator specific – 10 ms for electro-pneumatic valve, 5 ms for electro-servo valve

Ergonomic Features and Benefits

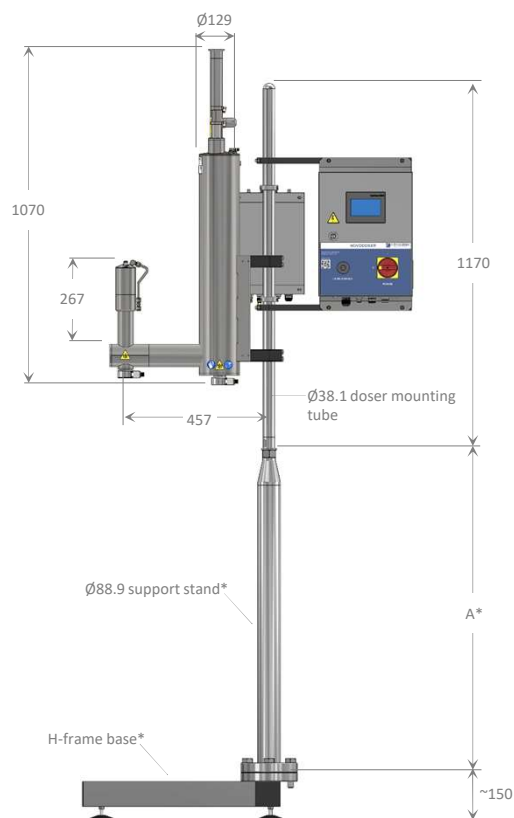
- **Frost-free Nozzle** – Self-generating GN2 for dosing head blanketing.
- **Lowest LN2 Losses** – Proprietary vacuum insulation with lowest heat leak 0.11 LPH.
- **High Dosing Speed** – Higher dose pressure in its class, 0.5 psi.
- **Sub-cooled LN2** – Ensuring constant LN2 density for accurate and repeatable dosing.
- **Corrosion Resistant** – Stainless steel 300 series material grade.
- **Highest Hygiene Design** – All external surface has rounded corners and sloped design for easy wash-down.
- **Lowest Maintenance** – Ultra-long life cycle dosing valve, tested 100 million.
- **Ease of Installation** – Compact size for easy installation in limited space.
- **Applications Flexibility** – Compatible with soft-dose and micro-dose technology for hot fill, powder, and granular applications.
- **5 Years Vacuum Warranty** – Lowest cost of ownership.

NovoDoser® H series 1000DSC

Dimensions

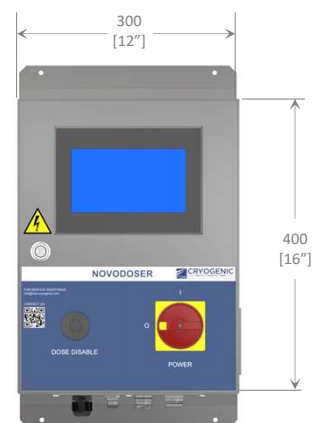
Material	Stainless Steel 300 series
Head Pressure	0.3 ~ 0.55 psi
Nozzle Blanketing	Self Generated N2
Steady State Consumption	< 0.029 gal (0.11 liter) / hour
Body Dimension	42" H x 5" W (1070 x 129 mm)
Dosing Head Dimension	Electro-pneumatic (HS head) 10.5" H x 2.5" W (267 x 63.5 mm)
Dosing Head Arm Reach	18" (457 mm)
Weight	35 lbs (16 kg)
Utilities	Liquid Nitrogen : ≤ 100 psi Gaseous N2 : 100 psi Electrical : 110-220 VAC

*H-frame base and Ø88.9 support stand are available as options, customer to provide "A" dimension when ordering.



1000DSC Controller Specifications

PLC Platform	Siemens S7-1200
HMI (LCD touch screen)	7.0" Color
Dose Duration, 1ms int.	10 to 1500 ms
Dose Volume, mg/dose	5 to 1400
Dose Accuracy	± 2%
Max. Discrete Dosing	2000 CPM
Dosing Head	Standard: Electro-Pneumatic (HS) Option: Servo Actuator
Dose Timing Synchronization	✓
Dose Volume Synchronization	✓
Encoder Compatible	✓
Quick System Purging	✓
Rapid Nozzle Auto Defrost	✓
Nozzle Pre-Cooling	✓
User's Filler Signal Interface	Option
Modbus RTU User Interface	Option
Recipe Storage	12
Certifications	CE



All dimensions provided are for indication purposes only and may not accurately represent the actual product dimensions. Please contact us for updated and actual measurements.