

## L series 2000DSC

A new generation liquid nitrogen doser with frostfree operation, food grade austenitic stainless steel material, hygienic wash-down design in compliance to stringent HACCP requirement



### **Specifications**

- Discrete dosing up to 2000 CPM
- · Controller with Siemen S7-1200 PLC platform
- · NEMA 4X IP65 stainless steel enclosure
- · HMI comes with TFT color touch screen
- · Minimum dose duration 5mS
- Accurate dose weight +/-1%
- · No container No dose function
- Smart-maintenance to allow user plan the maintenance schedule
- Direct LN2 feed pressure up to 30psi (2.0 Bar)
- · ModBus user interface
- Alarm log to assist system trouble shooting and performance monitoring
- · Recipe storage 10 recipes or more
- ullet 316L material construction higher corrosion resistance
- HS Pneumatic Hygienic Dosing Head wash-down design, IP65 rated
- · Multi-lingual HMI: English, Spanish, Chinese, etc

### **Ergonomic Features and Benefits**

- Frost-free Nozzle Self-generating GN2 for dosing head blanketing
- Lowest LN2 Consumption Discrete dosing, for speed up to 2000\* containers per minute
- Lowest LN2 Losses Proprietary vacuum insulation with lowest heat leak 0.1 LPH
- Minimized Product Splash Lowest dose pressure in its class, 0.3 psi
- Sub-cooled LN2 Ensuring constant LN2 density for accurate dosing
- Corrosion Resistant 316L material grade of construction for doser body
- Ease of Maintenance Achievable by system smart maintenance and remote monitoring
- Highest Hygiene Design All external surface has rounded corners and sloped design for easy wash-down
- Lowest Maintenance Ultra long life cycle dosing valve > 60 million; and IP 65 rated sensors
  & electrical cables
- 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® L series 2000DSC

### **Dimensions**

Material	Stainless Steel 300 Series
Head Pressure	0.3psi
Nozzle Blanketing	Self-Generate N2
Steady State Consumption	< 0.026 gal (0.10 liter) / hour
Body Dimension	36"H x 5"W (910 x 129mm)
Dosing Head Dimension	ES Head 9.7" x 1.6"W (247 x 40mm)
Dosing Head Arm Reach	18" (457mm)
Weight	30lbs (14kg)
Utilities	Liquid Nitrogen : 22 psi Gaseous N2 : 60 - 100 psi Electrical : 110-220VAC

## **2000DSC Controller Specifications**

PLC Platform	Siemens S7-1200
HMI (LCD touch screen)	7.0" Color
Dose Duration, 1ms int.	5 to 1500 ms
Dose Volume, mg/dose	5 to 1400
Dose Accuracy	± 1%
Max. Discrete Dosing	2000 CPM
Fixed Delay	✓
Speed Compensation	✓
Dose Compensation	✓
Encoder Compatible	✓
Quick Service Purging	✓
Nozzle Auto Defrost	Automatic
Nozzle Pre-Cooling	Automatic
User's Filler Signal Interface	Optional
Modbus RTU User Interface	✓
Mobile Remote Monitoring (Wi-Fi / Lan)	✓
Smart Maintenance	✓
Overall Equipment Effectiveness	✓
Recipe Storage	12
HS Hygienic Dosing Head	✓
Certifications	CE, IP66





