

NITRODOSE®

LIQUID NITROGEN INJECTION SYSTEMS

Vacuum Barrier's NITRODOSE® liquid nitrogen injection systems provide the most precise liquid nitrogen dosing to add strength to non-carbonated beverages for light-weight packaging and displace oxygen to extend shelf life.

MiniDose precisely delivers low pressure liquid nitrogen at line speeds up to 200 BPM

EasyDose G2 Lite precisely delivers low pressure liquid nitrogen at line speeds up to 450 BPM

EasyDose G2 precisely delivers low pressure liquid nitrogen at line speeds up to 450 BPM

EasyDose G2 Plus precisely delivers low pressure liquid nitrogen at line speeds up to 2000+ BPM

NITRODOSE® G2 precisely delivers low pressure liquid nitrogen at line speeds up to 450 BPM and is continuously self-monitored with alarm outputs and beacon

NITRODOSE® G2 PRO precisely delivers low pressure liquid nitrogen at line speeds up to 2000+ BPM and is continuously self-monitored with alarm outputs and beacon

NITRODOSE® G2 SERVODOSER™ provides the highest level of control in liquid nitrogen dosing. Adjustable flow rate during discrete and continuous dosing without a nozzle change.

LINERTER III delivers moderate pressure liquid nitrogen at line speeds up to 500 BPM to greatly reduce oxygen levels in large volume containers

HS Aseptic precisely delivers sterile, low pressure liquid nitrogen for all aseptic filling lines and is continuously self-monitored with alarm outputs and beacon

Our Service – Your Guarantee

- Engineered, designed and fabricated our own cryogenic equipment since 1958
- Trained worldwide staff
- Different models available to cover a wide variety of applications
- Standard models available from stock

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VBC NITRODOSE® SYSTEMS

	MiniDose	EasyDose G2 Lite	EasyDose G2	EasyDose G2 Plus	NITRODOSE G2	NITRODOSE G2 Pro	NITRODOSE SERVODOSER	Linerter III	HS Aseptic
Maximum Discrete Dosing Speed	200	450	450	2000+	450	2000+	2000+	500	750
Continuous Stream Capabilities			std	std	std	std	adj		std
Allen Bradley PLC			ML1100	ML1400	ML1100	ML1400	ML1400		ML1400
Siemens PLC	S7-1200	S7-1200	S7-1200	S7-1200	S7-1200	S7-1200	S7-1200	S7-1200	S7-1200
AB Panelview Component 800, 7" touchscreen HMI			Color	Color	Color	Color	Color		Color
Siemens KTP 700, 7" touchscreen HMI	Mono (4")	Mono (4")	Color	Color	Color	Color	Color	Mono (4")	Color
Minimum Dose Duration	25 ms	25 ms	25 ms	6 ms	25 ms	6 ms	4 ms	12 ms	12 ms
Smartsync Technology			std	std	std	std	std		std
Programmable Motion Profile Dosing Valve							std		
Dose stroke verification							std		
Long Life Servo Actuator							std		
Accuracy of +/- 3% by weight	+/-5%	std	std	std	std	std	+/-1%	std	std
Real-Time Graphical User Interface (GUI)	std	std	std	std	std	std	std	std	std
Speed & Dose Compensation	speed only	speed only	std	std	std	std	std	speed only	std
5 Recipe Storage			std	std	std	std	std		std
5 On-Board Languages - AB	n/a	n/a	std	std	std	std	std	n/a	std
10 On-Board Languages - Siemens	universal symbols	universal symbols	std	std	std	std	std	universal symbols	std
Continuously self-monitored for alarm conditions	std	std	std	std	std	std	std	std	std
Number of built-in alarm relays			1	1	2	2	2		communication link
Maximum direct LN ₂ feed pressure, psi (bar)	22 (1.5)	22 (1.5)	22 (1.5)	22 (1.5)	100 (6.9)	100 (6.9)	100 (6.9)	9 (0.6)	125 (8.6)
Required air pressure, psi (bar)					50 – 100 (3.4 – 6.9)	50 – 100 (3.4 – 6.9)	50 – 100 (3.4 – 6.9)	50 (3.44)	75 (5.2)
Rapid warm-up feature					std	std	std		
Electronic dosing valve	std	std	std	std	std	std	servo	pneumatic	pneumatic
Lowest profile dosing head to fit confined spaces		std	std	std	std	std			
Clean hygienic design	std	std	std	std	std	std	std	std	std
Lowest dosing pressure, 0.3 psi (0.02 bar)	std	std	std	std	std	std	std		std
Self-Generating N ₂ purge	std	std	std	std	std	std	std		
Sub-cooled LN ₂ to improve dosing accuracy	std	std	std	std	std	std	std		std
Automatic CIP Protection		opt	opt	opt	opt	opt	opt		std
Directional Dose Dispersion blocks			opt	opt	opt	opt	opt		