

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. Available with Low-Profile Pneumatic Valve.

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 G2 Servo-doser	Linerter III	HS Aseptic
Maximum Discrete Dosing Speed (CPM)	200	450	450	2000	450	2000	2000	500	800
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	color (4")	color (4")	color	color	color	color	color	color (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 by dose weight	+/- 5%	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 1%	+/- 3%	+/- 3%
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
Recipe Storage			10	10	10	10	10		5
Five on-board languages	universal symbols	universal symbols	std	std	std	std	std	universal symbols	std
Continually 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)	125 (8.6)	125 (8.6)	125 (8.6)	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
Low-Profile Pneumatic Valve to fit confined spaces (50-100 psi/3.4-6.9 bar)		opt	opt						
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		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		
Dosing Software for In-Line Fillers/Cappers			opt	opt	opt	opt	opt		

4-year warranty on all systems.