

MINI LIQUID NITROGEN DOSER



Brief Introduction



Best LN2 Application System in Korea

CVS has committed itself to developing machines for beverages and aluminum extrusion mold cooling systems with experience in developing various beverage-related equipment and technologies that require high vacuum insulation for extended periods of time



Founded in

2009

Design, R&D, Manufacture

- LN2 Doser
- Aluminum Extrusion Mold Liquid Nitrogen Cooling System
- Mini LN2 Doser
- Relief Valve, Vacuum Pipe

Headquarter Located in

14-8, Gimpo-daero 1750beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Republic of Korea, CVS Co., Ltd.



History of CVS

2010

Wooil Beverage Co., Ltd. 2 LN2 Doser Production and Installation 2012

OKF Co., Ltd. LN2 Doser Production and Installation

2014

China Hebei Province Langfang Sunrise LN2 Doser Production and Installation

> OKF Co., Ltd. LN2 Doser Production and Installation

2016

China Hebei Province Langfang Sunrise LN2 Doser production and installation

> Wooil Beverage Co., Ltd. 2 LN2 Doser Production and Installation

OKF Co., Ltd. LN2 Doser Production and Installation 2019

Dawon Light Metal Aluminum Extrusion Mold Liquid Nitrogen Cooling System production and installation

Korea Telecommunications Research Institute Manufacture and installation of HALT

equipment liquid nitrogen supply pipe

Linno Aluminum Co., Ltd. Aluminum Extrusion Mold Liquid Nitrogen Cooling System production and installation 2021

Daeju Industry LN2 Doser Production and Installation

Hite Jinro Lab use LN2 Doser Production and Installation

Prax Coffee LN2 Doser production and installation

OKF Co., Ltd. LN2 Doser Production and Installation

OKF Co., Ltd. 2 LN2 Doser Production and Installation

2011

China Taiyuan LN2 Doser Production and Installation

Coca-Cola Korean drink LN2 Doser Production and Installation

2013

OKF Co., Ltd. 2 LN2 Doser Production and Installation

Dongwon F&B 2 LN2 Doser **Production and Installation**

2015

Daeil Co., Ltd. US CRYOTEHCH Doser Repair

Okdong Co., Ltd. Aluminum Extrusion Mold Liquid Nitrogen Cooling System production and installation

2018

Naturecell Co., Ltd. 2 LN2 Doser Production and Installation

Ilhwa Co., Ltd. LN2 Doser Production and Installation

O2 Healthcare 5HEAD Liquid Oxygen Doser and Vacuum Pipe

> Korea Aerospace Industries Vacuum Pipe Production and Installation

> > 2020





















Certification





Aluminum Extrusion Mold Liquid
Nitrogen Cooling System
Patent No. 10-1878283

Double Head Liquid Nitrogen Doser Device Patent No. 10-1279304 The can never dents.

Carry out productions through injection of liquid nitrogen.

Mini LN2 Doser can suppress taste changes.



The can never dents.

Reasons for Dents

When a can is seamed, the internal volume of the beverage product shrinks due to the temperature difference, which causes dents.







Solution

When liquid nitrogen is injected, it is vaporized inside to expand the volume and increase the internal pressure, preventing cans from denting.



Seamed cans with LN2 injected

Seamed cans without LN2 injected



The can never dents.

World's First / Only

Mini LN2 Doser M2100

M2100, a mini-sized LN2 doser developed by CVS, is the world's first small-sized LN2 doser.

When liquid nitrogen is injected into the can for seaming, it is vaporized inside to increase the internal pressure.

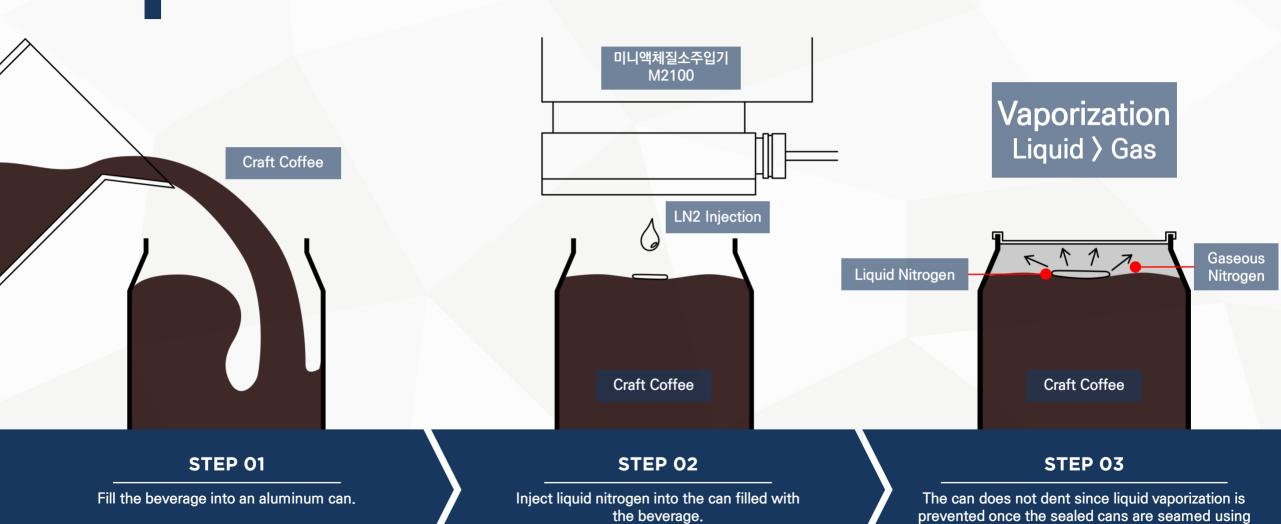
This internal pressure fills up the can, essentially preventing it from denting.





a can seamer.

The can never dents.





Carry out productions through injection of liquid nitrogen.



Supply of LN2 dosers for domestic and overseas mass production lines over the last 10 years

LN2 Equipment Manufacturer

CVS has committed itself to developing machines for beverages and aluminum extrusion mold coo ling systems with experience in developing various equipment and technologies for cryogenic gas that requires high vacuum insulation for extended periods of time.





Carry out productions through injection of liquid nitrogen.

The LN2 dosers produced by CVS has been supplied to mid-to-large sized beverage manufacturers for their can lines, such as Coca-Cola Korea, Dongwon F&B, OKF, and Wooil Beverage for over 10 years.

As a company specializing in manufacturing LN2 related equipment, our products are develope d with our proprietary technologies which are also patented.

CVS are confident in saying that our LN2 equipment manufacturing technology is the finest in al I of Korea.



















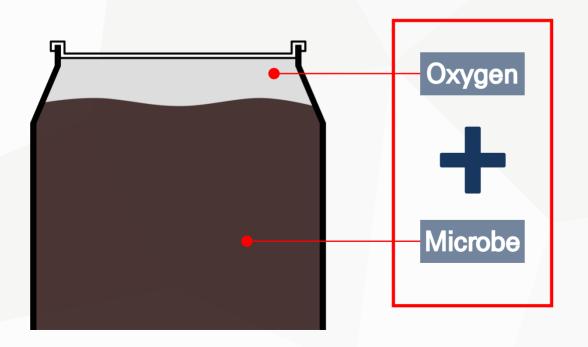




Mini LN2 Doser can suppress taste changes.

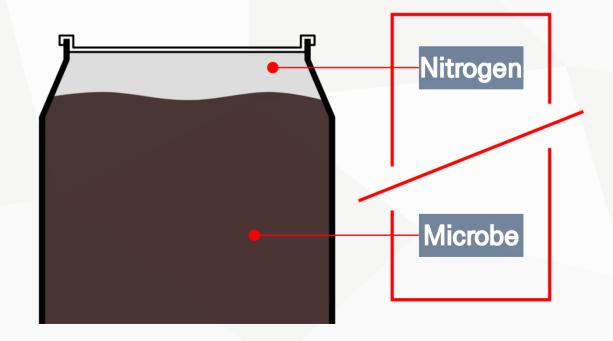
Dissolved Oxygen Residue in Existing Canned Beverages

The current can seaming process can lead to dissolved oxygen residue in the cans, causing microbial growth.



Dissolved Oxygen Reduction in Canned Beverages Injected with LN2

When liquid nitrogen is injected, the nitrogen, an inert gas, expunge the remaining oxygen inside while occupying its place, suppressing microbial growth and preventing any taste changes.





MINI LIQUID NITROGEN DOSER

MINI LIQUID NITROGEN DOSER (M-2100)









Thank You!



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