

COMPANY INTRODUCTION

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

Wool 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

Wool 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

2011

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

2013

China Taiyuan
LN2 Doser
Production and Installation

Coca-Cola Korean drink
LN2 Doser
Production and Installation

2015

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

Dongwon F&B
2 LN2 Doser
Production and Installation

2018

Daeil Co., Ltd.
US CRYOTECH Doser Repair

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

2020

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

Company Vision

MORE PROFESSIONAL
MORE PROGRESSIVE
MORE CREATIVE

CVS has been in business since 2009 with the goal of becoming a leader in the field of liquid nitrogen (LN2).

CVS succeeded in the development and commercialization of the liquid nitrogen (LN2) doser for the first time in Korea, and are currently working towards innovation in the aluminum extrusion process by developing the world's first liquid nitrogen cooling system for extrusion molds.

In detail, CVS improved, resolved, and stabilized the problems of foreign LN2 dosers installed in the existing beverage automation line, and developed a more advanced machine.

Additionally, CVS are putting our best efforts into providing high-quality warranty services post installation.

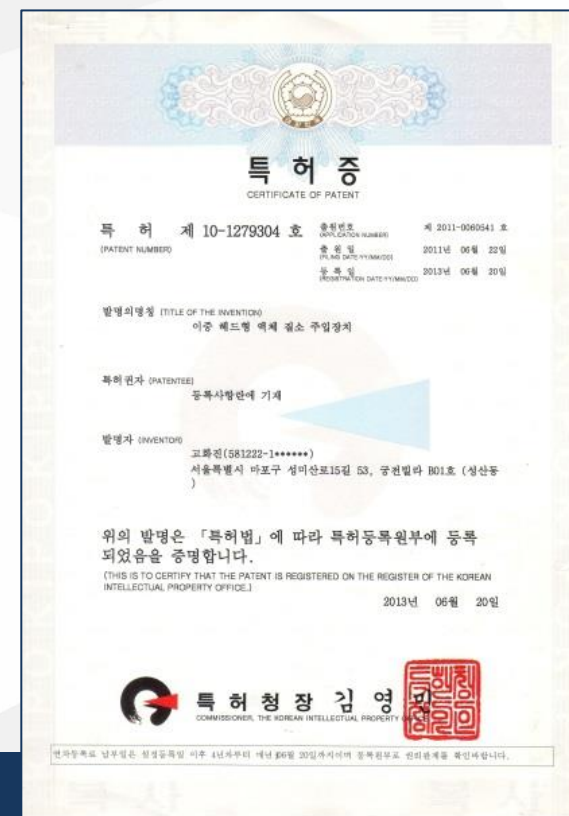
The development of the world's first aluminum extrusion mold liquid nitrogen cooler boasts an improvement in the advancement of productivity when compared to the preexisting aluminum extrusion process that uses nitrogen gas.

With infinite possibilities for liquid nitrogen applications, CVS strives for improvement and in becoming a global company specializing in manufacturing of LN2 application systems.

Certification



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



Double Head Liquid Nitrogen Doser Device
Patent No. 10-1279304

CVS Product

01. LN2 Doser

The LN2 doser, developed with our very own technology for the first time in Korea and installed in a number of automated lines, is our flagship product and has been operating in domestic canned beverage production lines for over 10 years.

The self-developed equipment stacked with CVS' technology has been recognized by many companies. It is also patented equipment for CVS' proprietary technology.

The LN2 doser produced by CVS has been supplied to domestic companies such as Coca-Cola Korea, Dongwon F&B, OKF, Wooil Beverage, and Naturecell, being recognized for its excellent performance.



CVS Product

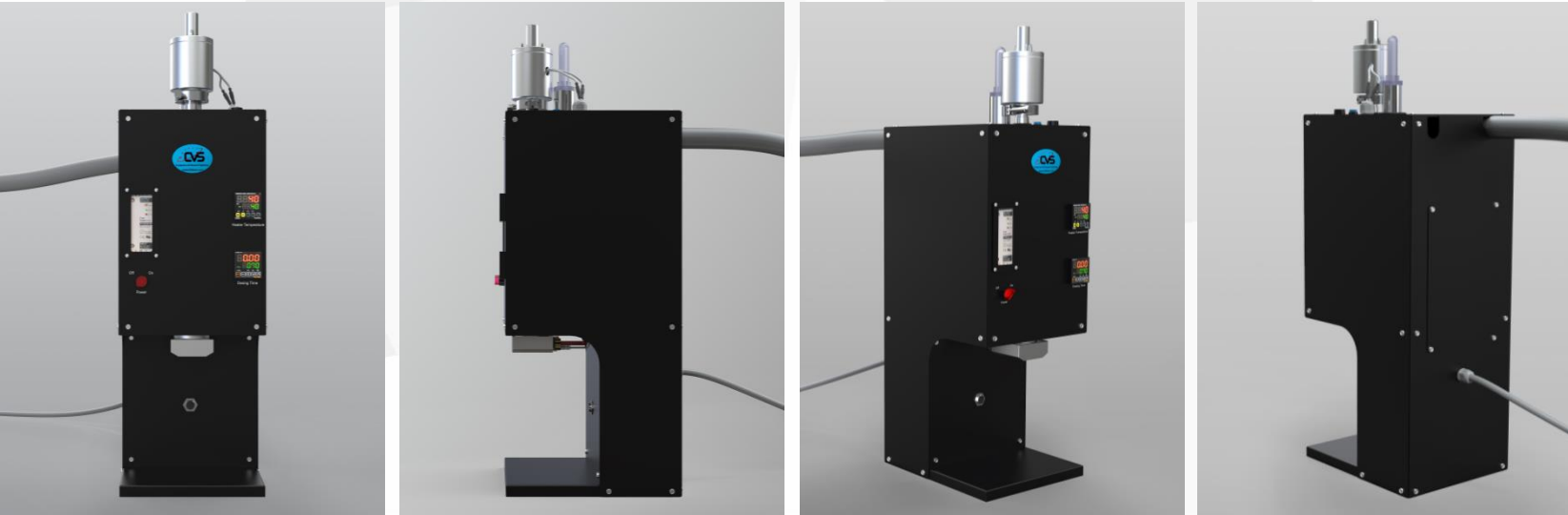
02. Mini LN2 Doser (M-2100)

The existing LN2 dosers are mostly installed in beverage mass production lines. They are large in size and designed exclusively for mass production processes.

The mini LN2 doser is a piece of equipment that has minimized the volume and functions of the existing LN2 dosers.

It is a newly developed doser that has been reduced in size, aiding small businesses, such as retail stores, home brewed coffee shops, and homemade juice sellers, with easy liquid nitrogen injections, rather than mass production automated factories.

CVS' LN2 doser, with its reduction in size and price when compared to the LN2 dosers designed for mass production, allow for easy access of liquid nitrogen dosers to individual cafe owners and can/PET beverage producers.



CVS Product

03. Application LN2 Doser

The medium-sized LN2 doser supplied to HITEJINRO and its corporate research institutes is used for the purpose of conducting corporate research as well as for experiments and tests.

Additionally, CVS are leaping forward drastically to develop and manufacture new cryogenic application equipment in collaboration with companies.



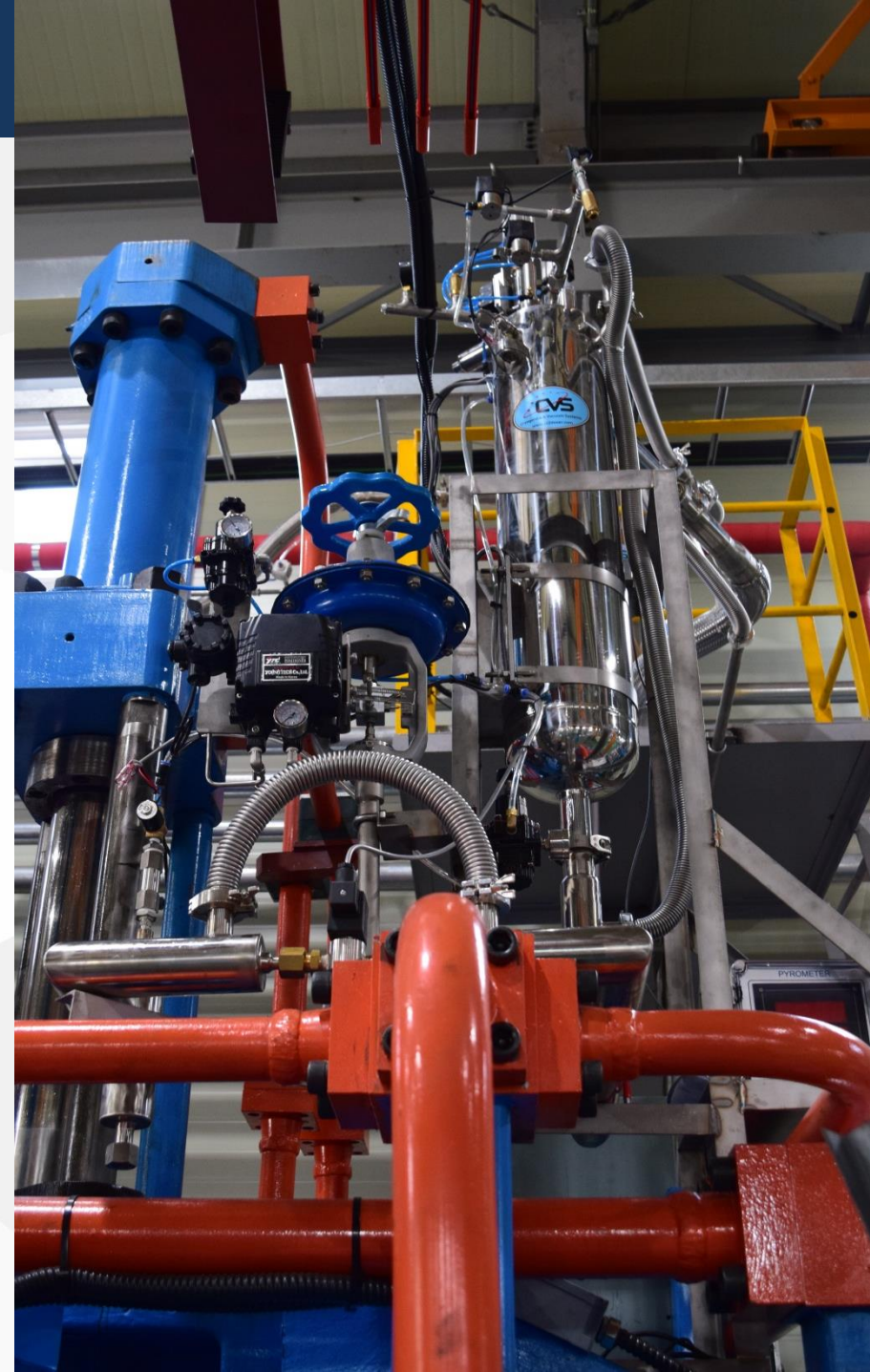
CVS Product

04. Aluminum Extrusion Mold Liquid Nitrogen Cooling System

The world's first aluminum extrusion mold LN2 cooler is a piece of equipment that provides innovation to the aluminum extrusion process.

The LN2 cooler locally cools the frictional heat given off from the extrusion mold's bearing surface in order to increase the extrusion speed to the set temperature by more than two-fold; while reducing the defect ratio of extruded products to drastically improve the surface quality.

CVS' self-developed extrusion mold LN2 cooling system is the first of its kind in the world, and is developed with new patented technology that can innovate the aluminum extrusion process.



CVS Product

05. Phase Separator

Liquid nitrogen is supplied through a vacuum pipe from an externally installed LN2 tank. This point, the liquid nitrogen is primarily stored in the phase separator in the double storage tank. The phase separator in the double storage tank is installed at the end of the vacuum pipe to store liquid nitrogen while also adjusting the internal pressure deviation.

The phase separator, installed as a part of the double storage tank, is a piece of equipment developed with CVS' own technology. The phase separator facilitates the operation of the LN2 application systems such as the LN2 dosers and extrusion mold LN2 cooling systems, to ensure that the LN2 application systems are operated under optimal conditions. The phase separator in the double storage tank, developed by CVS with our own technology, is the first of its kind.



CVS Product

06. Vacuum Pipe

A vacuum pipe must be used to supply liquid nitrogen at -196°C .

A vacuum pipe minimizes losses by reducing vaporization when supplying liquid nitrogen from the external liquid nitrogen tank.

With years of know-how, CVS supplies our unique bayonet and vacuum jacket valve for horizontal and vertical purpose.

CVS produces the optimal vacuum pipe for liquid nitrogen supply by providing T,Y-pattern vacuum valves with minimal pipe loss.



Thank You !



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