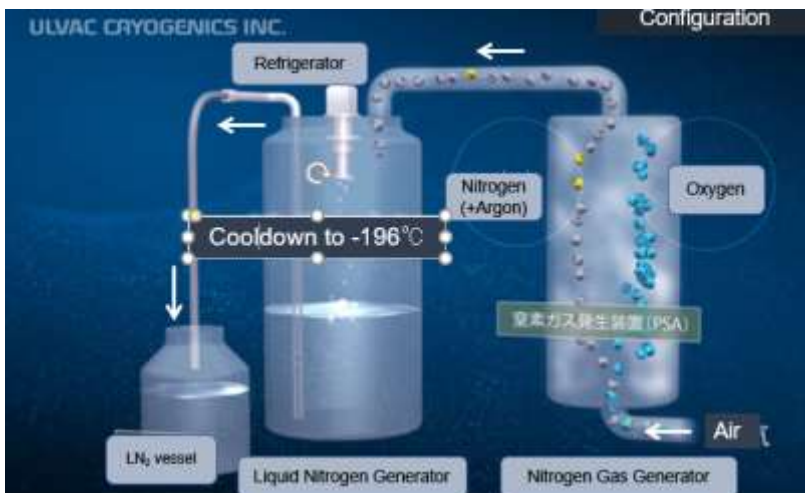


# LN2 Generator Material for ULVAC Group

November 2022

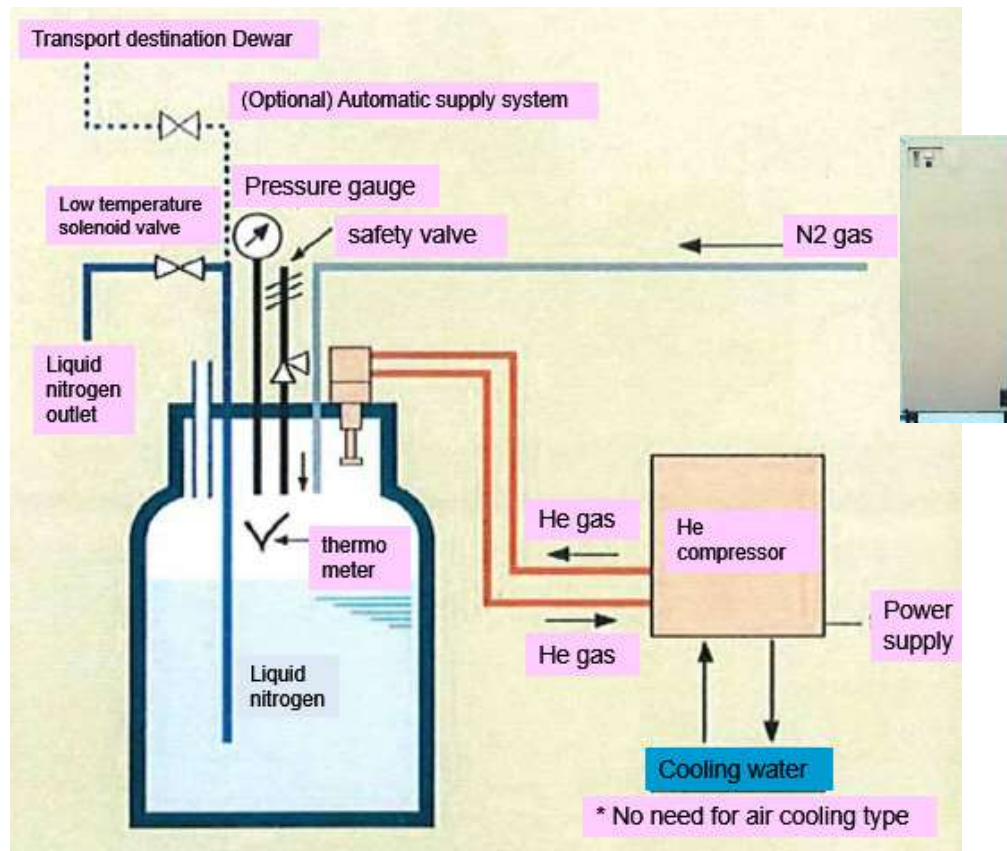
# Configuration of LN2 Generator

## Internal structure



ULVAC CRYOGENICS INC.

## Flow



Since the inside of the tank is open to the atmosphere, it is safe without pressure.  
Compressor circulates He gas, does not use CFCs

# Introduction of Delivery results

## Case study



**Delivery record of more than 1500 units so far**



NMR/SEM



Cryopreservation



Syowa Station, South Pole



(C) JAMSTEC

Deep Earth exploration vessel "Chikyu"

# Specifications

## ■ Features

Our LN<sub>2</sub> Generator produces liquid nitrogen using N<sub>2</sub> gas in the air and a cryocooler. By producing LN<sub>2</sub> in your workplace, it provides many advantages including convenience and stable supply.



EMP-07A

UMP-14A

UMP-40W

Type	EMP-07A / EMP-07W	UMP-14A / EMP-14W	EMP-20W	UMP-40W
LN <sub>2</sub> production capacity	6L/day (50Hz) 8L/day (60Hz)	14L/day (50Hz) 14L/day (60Hz)	19L/day (50Hz) 20L/day (60Hz)	38L/day (50Hz) 40L/day (60Hz)
LN <sub>2</sub> Tank Volume	40 L	40 L	80 L	100 L
Coolant	Air or Water Cooled	Air or Water Cooled	Water Cooled	Water Cooled

For more information, please visit for our website.

[https://www.ulvac-cryo.com/products-en/refrigerator-en/ln2\\_server-en/?lang=en](https://www.ulvac-cryo.com/products-en/refrigerator-en/ln2_server-en/?lang=en)