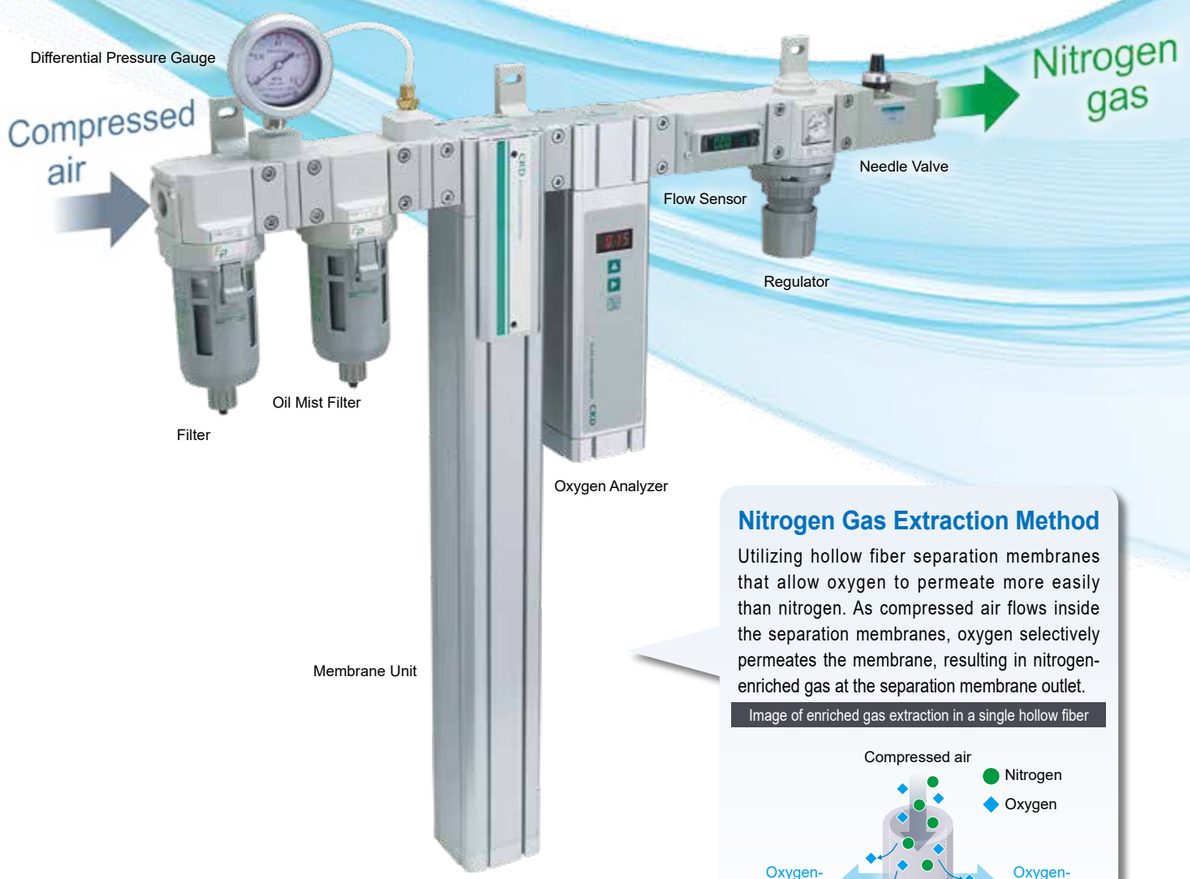
Nitrogen Gas Extraction Unit **NS Series**

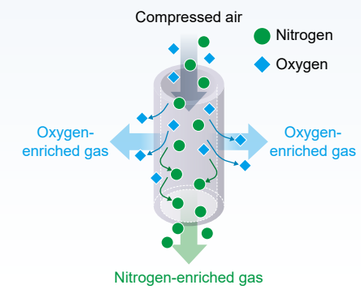
Nitrogen gas can be easily extracted from compressed air.



Nitrogen Gas Extraction Method

Utilizing hollow fiber separation membranes that allow oxygen to permeate more easily than nitrogen. As compressed air flows inside the separation membranes, oxygen selectively permeates the membrane, resulting in nitrogen-enriched gas at the separation membrane outlet.

Image of enriched gas extraction in a single hollow fiber



FP Series for Safe Food Manufacturing Processes (Option)

Can be used with peace of mind in food manufacturing processes.

Uses **NSF H1** grease for food applications

Food Sanitation Act Compliant Materials
Wetted Parts: Resin and rubber

FP Food Process™

This logo expresses CKD's commitment to supporting food manufacturing processes with safe components.
*For details, please see catalog No. CC-1271AA.

New Proposal for Nitrogen Supply

Freedom of Design

Now available in a horizontal type

Installation in dead space. Built-in installation in equipment.

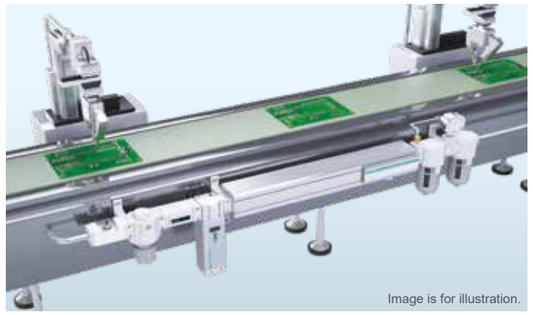


Image is for illustration.

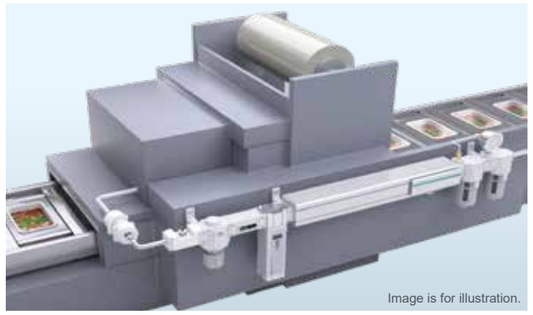
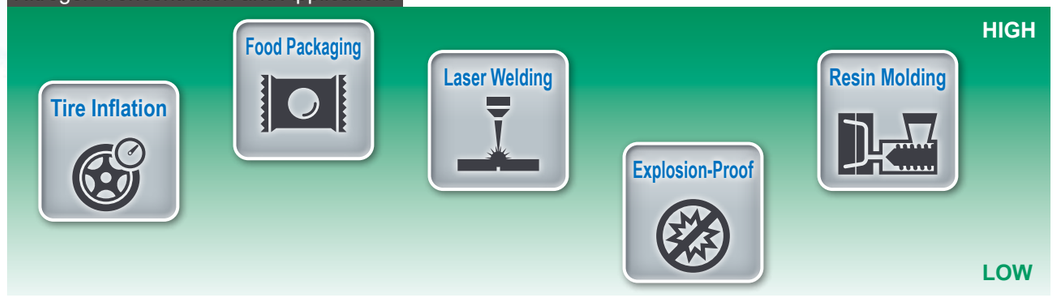


Image is for illustration.

Freedom of Concentration

Nitrogen concentration is now available from 90%. Nitrogen supply for explosion-proof and other low-oxygen concentration environments.

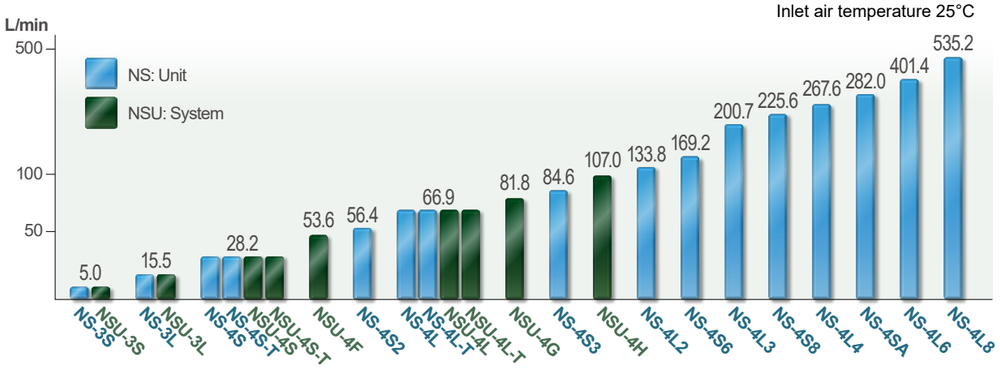
Nitrogen Concentration and Applications



Freedom of Choice

The optimal model can be selected from a lineup of 17 flows and 25 models.

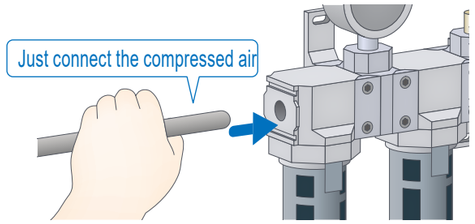
*Nitrogen concentration 99%
Inlet air pressure 0.7 MPa
Inlet air temperature 25°C

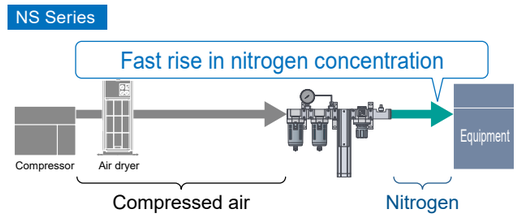


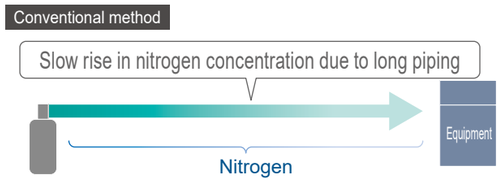
Install Anywhere

Saves work-hours, piping, and space

Nitrogen-enriched gas can be obtained simply by supplying compressed air. Design and piping are easy with the provision of system equipment. Compact and lightweight, it can be installed near equipment. No long piping work is required specifically for nitrogen.

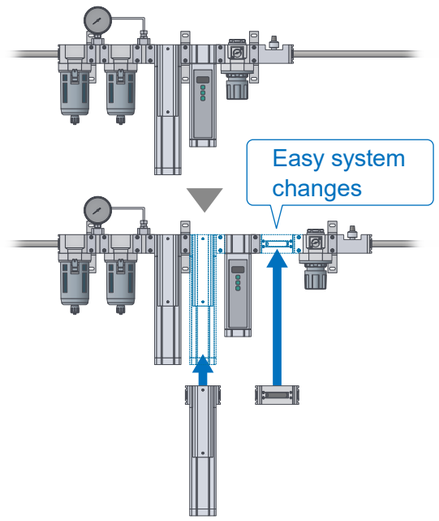






Free Choice

The optimal system can be selected according to the required flow rate and concentration. Modular connection allows for easy system changes such as adding units after installation.



No Power Supply Required

UCan be used in explosive atmospheres and areas with different voltages. Does not cause malfunctions due to electrical noise. No drive part, quiet operation, and no heat generation.

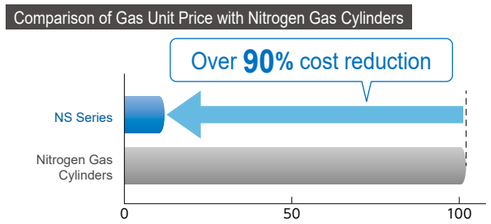
*A power supply is required when the oxygen concentration meter/flow sensor (option) is selected.

Low Cost and Work-hour Savings

Reduced Running Costs

Maintenance cost is only the electricity bill for the air compressor. No recurring costs such as cylinder replacement fees.

*A power supply is required when the oxygen concentration meter/flow sensor (option) is selected.



*Comparison assuming a gas unit price of 100 for a nitrogen gas cylinder at 99% nitrogen concentration.

Reduced Management Work-hours

Management of nitrogen volume is no longer necessary. The oxygen concentration meter and flow sensor can be installed inline for constant management.

- Oxygen Concentration Management (via N2 conc.)

Oxygen Analyzer

- Nitrogen Flow Rate Management

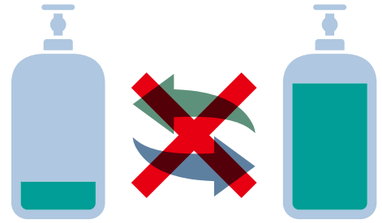
Flow Sensor

- Management of Supplied Compressed Air Quality

Differential Pressure Gauge

No Replacement Needed

Troublesome cylinder level management and replacement work are not required.



*Necessary equipment can be easily connected with modular connections. For details, please contact our sales office..

Easy Maintenance

Sustained Reliability

Stable performance can be maintained as there are no moving parts. Parts can be replaced while still piped.

Not Subject to the High Pressure Gas Safety Act

No notification or placement of qualified personnel is required.

NS Series Configuration

System	
1-unit Type	2-unit Type
NSU	
Horizontal Mounting	Vertical Mounting

Unit	
Single Cylinder	Multiple Cylinders
NS	
Horizontal Mounting	Vertical Mounting