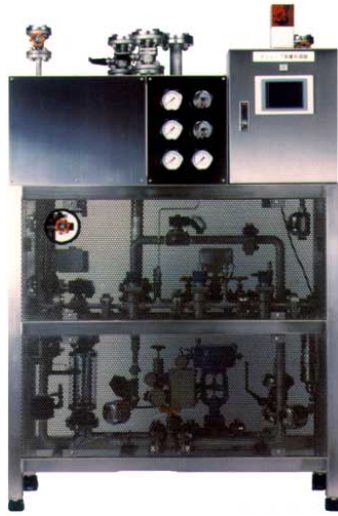


Gushing Systems

- Gushing SNC-2MT
- Gushing SNC-1MT



APPLICATIONS OF GUSHING

Type of Gushing	Purpose	Type of Can
Steam	Control of degree of vacuum	Negative pressure
Nitrogen	Elimination of oxygen, control of degree of vacuum	Positive and negative pressures
Carbon acid gas	Elimination of oxygen	Positive pressure
Steam/nitrogen	Elimination of oxygen, control of degree of vacuum	Negative pressure
Cleaning water	Cleaning of gas turret	-

SPECIFICATION OF GUSHING

Type of System	SNC-2MT	SNC-1MT
Dimensions (mm)	1,200(W) x 500(L) x 1,850(H)	1,100(W) x 500(L) x 1,850(H)
Weight	Approx. 250 kg	Approx. 250 kg
Power source	Single-phase 100 V AC	Single-phase 100 V AC
Electrical capacity	1 kW or less	1 kW or less
Steam consumption	50 kg/hr. (0.5 to 0.9 MPa)	50 kg/hr. (0.5 to 0.9 MPa)
Carbon acid gas consumption	2Nm ³ /min. or more (0.5 to 0.9 MPa)	1Nm ³ /min. or more (0.5 to 0.9 MPa)
Nitrogen consumption	2Nm ³ /min. or more (0.5 to 0.9 MPa)	1Nm ³ /min. or more (0.5 to 0.9 MPa)
Air Pressure	0.5 to 0.9MPa	0.5 to 0.9MPa

The System is capable of supplying any desired combination of nitrogen gas, carbon acid gas and steam, depending on the type of beverage.

Liquefied nitrogen may be enclosed in place of those gases.

Although it is possible to cut down the canned drink manufacturing cost by thinning the wall thickness of the can body, it is also necessary to maintain its strength at the same time. In this case, liquefied nitrogen is to be enclosed instead of the above-mentioned gases. Enclosed liquefied nitrogen is vaporized into nitrogen gas immediately after closing the can to increase the can internal pressure. This action enables the cans with thin wall thickness to maintain sufficient strength. Naturally, the air in the head space can be replaced simultaneously, contributing to maintenance of the quality.

We contribute to the manufacturing processes of various beverage products through the gushing systems and liquefied nitrogen feeders indispensable for them.

Our technology is also utilized for the canned beverage readily available at the station stalls and convenience stores or from the vending machines.

OVERVIEW OF GUSHING

The System is to supply air replacement gas into the head space of canned drinks (between the contents and the can lid). The gas adjusted inside the system is sprayed into the head space, eliminates the oxygen in the air, thus maintaining the quality of the contents. The degree of vacuum inside the can is controlled by spraying the steam. The steam with high pressure fluctuation greatly reduces the pressure to stabilize it, and nitrogen/carbon acid gas is supplied at more accurate rate by installing a mass flowmeter.

FEATURES OF GUSHING

- Elimination of oxygen in the head space.
- Control of the degree of vacuum in the can.
- Quality maintenance of the contents.
- Applicable to every type of canned beverage.
- Multitype
Capable of supplying 4 types of gases, "steam," "steam/nitrogen," "nitrogen," "carbon dioxide," and "gas turret cleaning water."
Applicable to all of the canned beverage products such as those with positive/negative pressure, with or without carbon dioxide.
- Automatic control
The "mixing temperature" and "gas flow rate" are automatically controlled by just entering the setting values. No need to operate a reducing valve or other valves which have been required for the conventional systems.
- Setting by Product Type
Capable of setting and registering about 30 product types. No setting is required before each manufacture because the setting values by product type can be registered. The desired gas is supplied by only selecting the product type you want to manufacture in the "Select Product Type" screen.
- Compact Design
Compactly designed to integrate the "steam control section," "gas control section" and "control panel" into one body. It can be installed even in a narrow charging room, allowing effective use of its limited space.
- Easy Operation Control
All the data required for operation appear on the screen, such as the "temperature," "flow rate" and "pressure" of the supply gas, and the "valve open/close state," "alarm," etc., allowing easy operation control.