Sterilization (Before Use)

You can sterilize the nasal adapter with ethylene oxide gas only once and before use. Follow the sterilizing conditions below. The sterilizing conditions depend on the contamination of the adapter. Refer to the manual of the sterilizing equipment.

Gas:	EO 30% + CO_2 70%
EO concentration:	710 mg/L
Temperature:	45°C (113°F)
Relative humidity:	50%
Pressure:	−93.3 kPa to 49.1 kPa
Period:	4 to 10 hours

To remove the remaining gas from the nasal adapter after sterilization, first decrease the internal pressure of the sterilization equipment to −101.3 kPa (−760 mmHg) with a vacuum pump, then add carbon dioxide or antiseptic gas in the equipment. Repeat this procedure (aeration) at least 5 times. Take the nasal adapter out of the sterilization equipment and leave it for at least 6 days at 20°C (68°F) or more before using it.
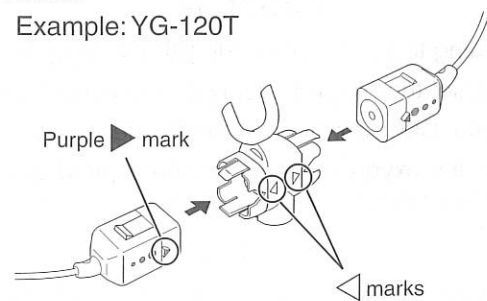
NOTE

Do not autoclave the nasal adapter because this may damage the adapter.

Replacing the Nasal Adapter

Connect the CO_2 sensor to the nasal adapter so that the purple ▶ mark on the CO_2 sensor and the ◁ mark on the nasal adapter align. Insert the CO_2 sensor into the nasal adapter until it clicks. Refer to the operator's manual of the CO_2 sensor kit together with this manual.

Example: YG-120T

Purple ▶ mark

◁ marks

Pull the sensor part of the CO_2 sensor when removing the nasal adapter.

NOTE

Do not pull the CO_2 sensor cable. This may break the cable.

Cleaning and Disinfection

This nasal adapter is disposable. You can not clean or disinfect it. Immediately replace the nasal adapter with a new one when it becomes dirty.

Expiration Date

This nasal adapter is disposable. The expiration date is within 36 months including the month of manufacture.

Disposal

Dispose of the nasal adapter by following your local laws for disposing of infectious medical waste.

CAUTION

Dispose of Nihon Kohden products according to your local laws and your facility's guidelines for waste disposal. Otherwise, it may affect the environment. If there is a possibility that the product may have been contaminated with infection, dispose of it as medical waste according to your local laws and your facility's guidelines for medical waste. Otherwise, it may cause infection.

Environment

Operating Environment

Temperature:	0 to 45°C (32 to 113°F)
Humidity:	30 to 95% (noncondensing)
Atmospheric pressure:	70 to 106 kPa

Storage Environment

Temperature:	−20 to +65°C (−4 to +149°F)
Humidity:	10 to 90% (noncondensing)
Atmospheric pressure:	70 to 106 kPa

NOTE

Do not leave the nasal adapter in a place with high temperature such as on a dashboard of a car. This may deform the nasal adapter and cause inaccurate measurement.

Options

Description	Model	Q'ty	Supply Code
Surgical tape	#1527	24	Y242
Oxygen cannula*	#1103	25	V927A

* The only oxygen cannula that can be used with YG-122T is #1103 manufacture by Hudson RCI.

OPERATOR'S MANUAL

Nasal Adapter
YG-120T/YG-121T/YG-122T

0604-900106N   1st Edition: 27 Oct 2003   15th Edition: 22 Apr 2019

本品は、出荷される国や地域により仕様等が異なることがあります。
※日本向け製品については、日本語で記載しています。
英語などその他の言語で記載されている内容は、日本以外に出荷される製品の説明です。

Some specifications of this product may differ depending on the destination country or region. Therefore descriptions in the Japanese manual and English and other language manuals may also differ.

本产品的部分规格可能因国家地区而有所不同。因此、日语、英语以及其他语言的说明书亦可能存在一定的差异。

Symbol	Description	Symbol	Description
⚠	Caution	↥	This way up
Ⓧ	Do not reuse	⚖	Fragile
〜	Date of manufacture	☂	Keep away from rain
🏭	Manufacturer	Rx Only	CAUTION: United States law restricts this product to sale by or on the order of a physician.
⌛	Use by		
LOT	Lot number		
EC REP	European representative	CE	The CE mark is a protected conformity mark of the European Community.
	Stacking limit by number		

General

The YG-120T, YG-121T or YG-122T nasal adapter is used with a TG-121T CO_2 sensor or TG-920P, TG-921T3 or TG-921T4 CO_2 sensor kit to measure the partial pressure of the expired CO_2 of the patient. YG-120T is for nasal breathing, YG-121T is for naso-oral breathing and YG-122T is for patients wearing an oxygen cannula.

Application

Dead space volume: 1.2 mL
For patients more than approx. 10 kg

This nasal adapter can be used with Nihon Kohden specified instruments which measure the partial pressure of the expired CO_2.
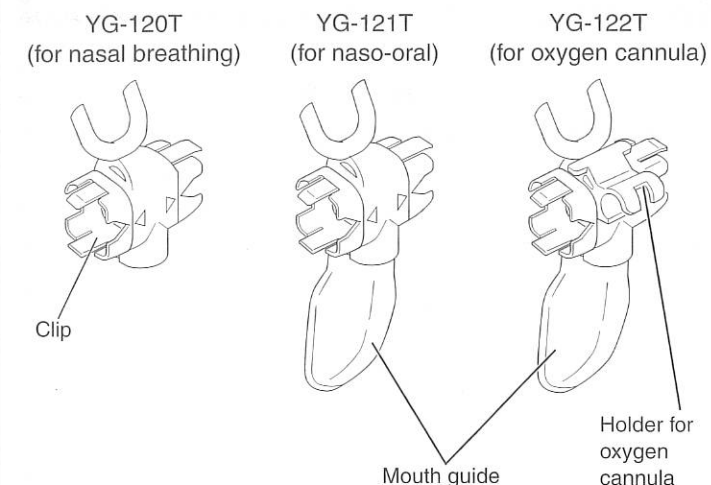
NOTE

Read the operator's manuals of the connected instrument and TG-920P, TG-921T3 or TG-921T4 CO_2 sensor kit together with this operator's manual.

Description of Parts

YG-120T (for nasal breathing)　YG-121T (for naso-oral)　YG-122T (for oxygen cannula)

Clip

Mouth guide

Holder for oxygen cannula

Safety Information

WARNING

When using the YG-120T, YG-121T or YG-122T nasal adapter on a patient with low ventilatory volume, check the ventilation taking into consideration the 1.2 mL dead space of the nasal adapter. If that dead space is too much for this patient, appropriate ventilation might be impossible. The CO_2 may mix in the inspiration due to the nasal adapter's dead space, resulting in inaccurate measured value or difficulty in detecting apnea.

WARNING

The only oxygen cannula that can be used with YG-122T is #1103 manufactured by Hudson RCI. Do not use any other oxygen cannula. Other oxygen cannulas cannot be attached and oxygen cannot be delivered to the patient through the nostrils.

WARNING

- When you use YG-122T together with an oxygen cannula, check that the oxygen cannula is correctly attached on the patient by referring to other parameters and by observing the patient periodically.
- If arterial oxygen partial pressure does not increase, immediately stop using the oxygen cannula with the CO_2 sensor kit and select another way to supply oxygen.

Attaching the Nasal Adapter

Hook the cable on the ears, and tape the cable on the cheek bone to keep it stable when talking.

NOTE

Be careful not to injure the patient's nostrils with the nasal tube.

YG-120T nasal adapter
Fix the mouth guide with surgical tape
Hook the cable on the ears
YG-121T nasal adapter   YG-122T nasal adapter
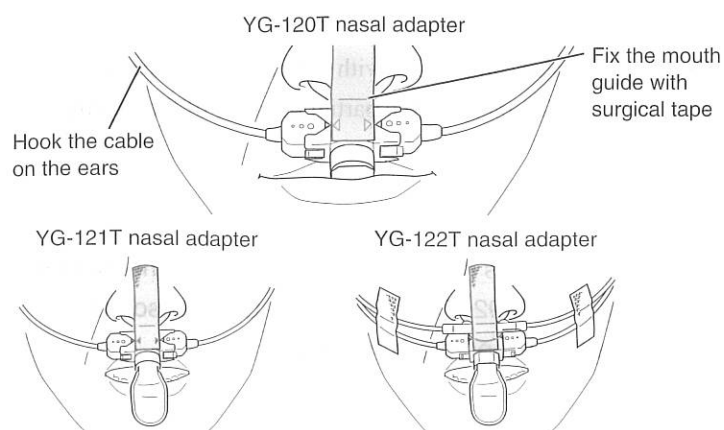
Attaching the Surgical Tape to the YG-120T Nasal Adapter

When using the YG-120T nasal adapter, do not cover the hole of the nasal adapter with the surgical tape. If the hole is covered, the measurement data will be incorrect because the expired air is blocked.

Incorrect   Surgical tape   Correct

Hole   Hole
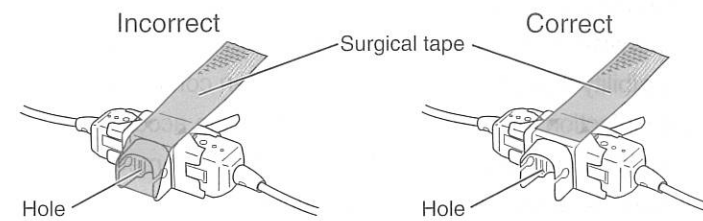
Fixing the YG-121T or YG-122T Nasal Adapter

Do not let the mouth guide touch the lips. Keep the distance between the mouth guide and the top of the mouth within 1 cm. CO_2 cannot be measured when the mouth guide is far from the mouth.
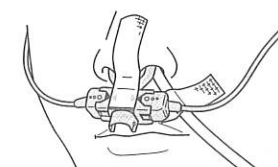
NOTE

Do not pull the mouth guide of the nasal adapter with excessive force. It may cause the nasal adapter to break.

Fix the mouth guide with surgical tape
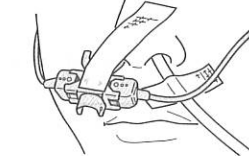
Mouth guide   Lip
Within 1 cm
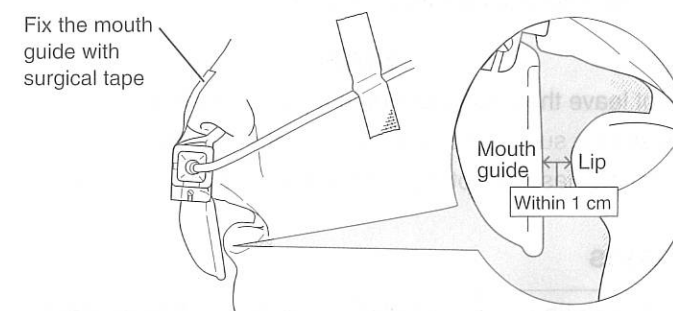
When Using the Nasal Adapter for a Patient with a Gastric Tube

Insert the nasal tube over the gastric tube or insert the nasal tube from beneath the gastric tube. When using a YG-120T nasal adapter (for nasal breathing), the nasal tube can be inserted only in the nostril which does not have the gastric tube.

Example of inserting nasal tube over the gastric tube

Example of inserting nasal tube in only one nostril (YG-120T only)

NOTE

Do not use the YG-121T nasal adapter (for naso-oral breathing) or YG-122T nasal adapter (for naso-oral breathing with an oxygen cannula) by inserting the nasal tube in only one nostril. Otherwise, correct measurement cannot be performed because the mouth guide will be away from the mouth.

Connecting the Oxygen Cannula

Connect the oxygen cannula to the nasal adapter so that the convex part of the oxygen cannula fits into the cutout in the cannula holder on the nasal adapter.
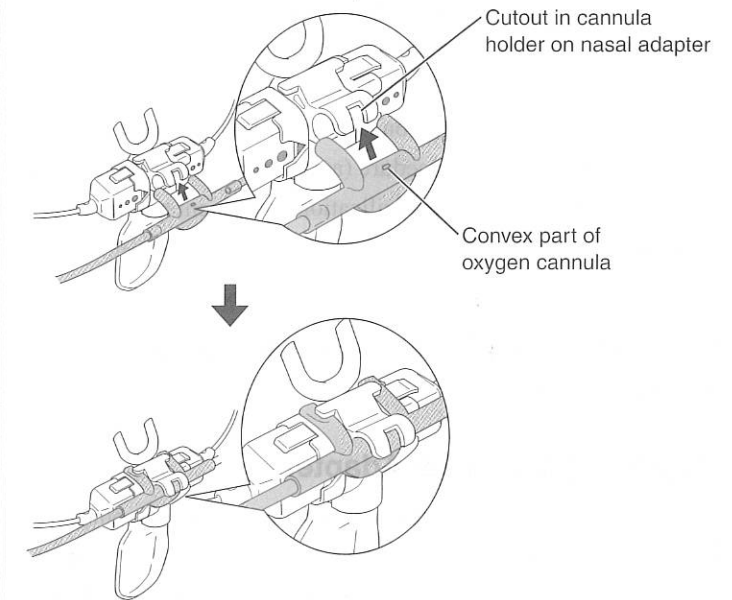
Cutout in cannula holder on nasal adapter

Convex part of oxygen cannula

NOTE
- Connect the oxygen cannula to the YG-122T nasal adapter before attaching the CO_2 sensor kit to the patient.
- If the oxygen cannula is installed backwards, the oxygen will be directly delivered into the nose which can cause distortion of the CO_2 waveform.
- When the oxygen cannula is installed correctly, the oxygen is delivered to the nose with the oxygen cannula so that the patient breathes the oxygen at the nose.
- Fix the oxygen cannula and nasal adapter to the patient with the provided surgical tape. Do not pull with force.