



HIGH FLOW OXYGEN THERAPY

COMPANY INTRODUCTION

GENTEC® Medical Products

Solutions for Life



Company Overview

Genstar Technologies Company, Inc (GENTEC®), founded in 1969, is a world class manufacturer of high quality apparatus for high purity, medical and industrial markets.

For the medical industry, GENTEC® provides high quality products such as medical gas flow control systems, regulators, terminal-units, architectural products, and gas alarm systems.

Quality Assurance

GENTEC® manufactures its products in an ISO 13485 certified 150,000 square foot manufacturing facility in order to ensure the highest quality.

Corporate Culture & Management, Training

Gentec strives to instill employee confidence, team spirit, enthusiasm, and self-improvement. The company culture enables employees to provide outstanding customer service, excellent product quality, and continuous technological innovation. Gentec believes in constant improvement to maintain its competitive edge. The company continues to invest considerable time and effort in developing comprehensive training programs to help its employees to fully realize their potential. All new employees take part in a series of training programs within the first two months of their employment.

Core Competency

Gentec's core competency is rooted in the research, development, and production of components, equipment, and systems. The research and development team consists of professionals from various fields, such as chemical engineering, material science, mechanical engineering, electrical engineering, and software programming.

Advanced Laboratorial Testing Devices

The state-of-the-art laboratory features a coordinate measuring system, flow rate measurement system, oxygen concentration monitor, micro-hardness tester, metallurgical microscope, spring testing machine, helium-leak detector, and profilometer. These high-end devices ensure product performance and quality.

HIGH FLOW OXYGEN THERAPY



03. Air/Oxygen Blenders GMX Series

05. Disposable Breathing Circuit System

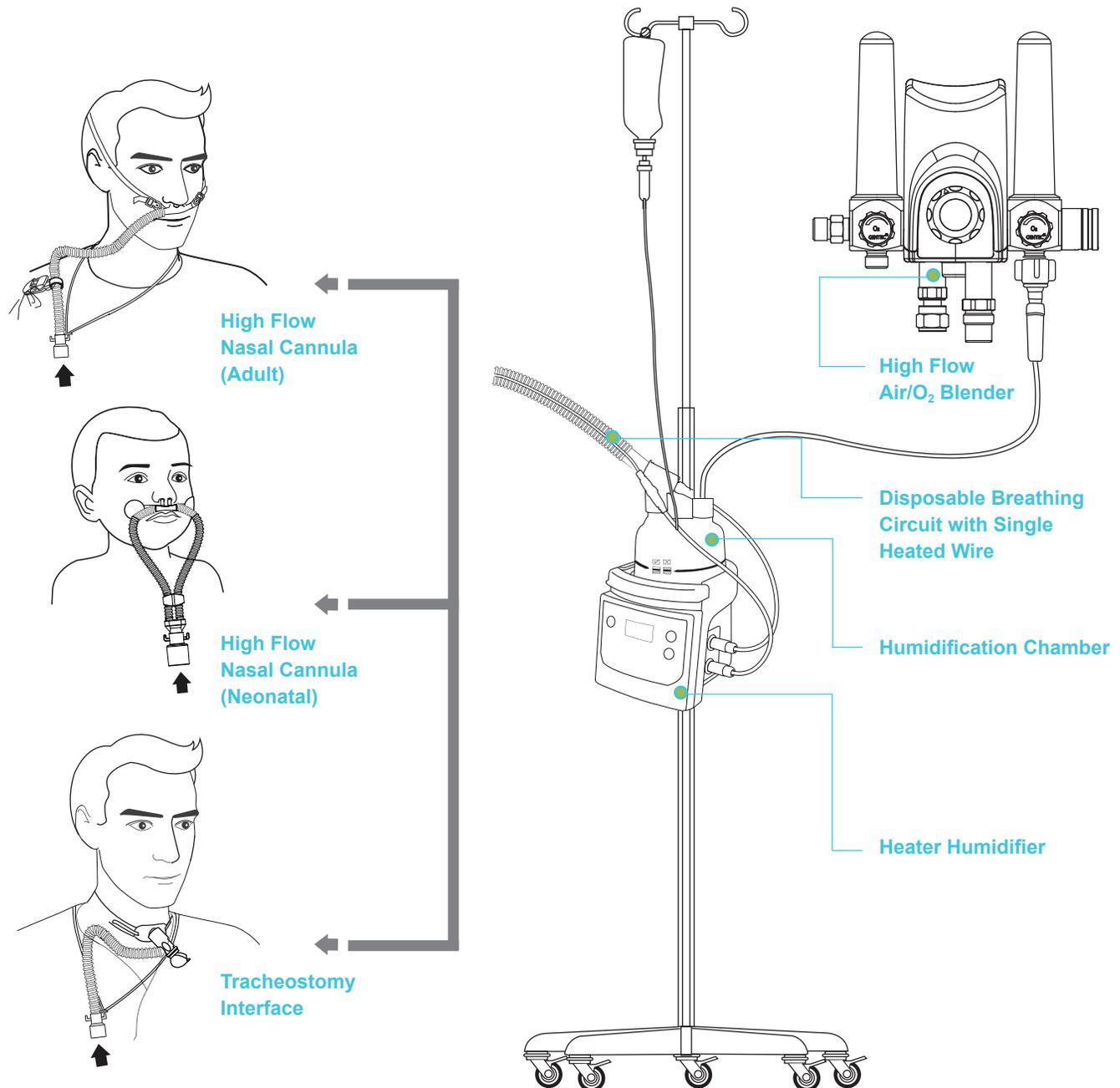
06. Humidification Chamber

08. High Flow Nasal Cannula

HIGH FLOW OXYGEN THERAPY

GENTEC® High-flow Oxygen Therapy (HFOT) provides a non-invasive respiratory treatment that delivers humidified and heated oxygen-enriched air to the patients. This treatment provides respiratory treatment to patients with acute hypoxemic respiratory failure, where patients in ICU or high dependency units (HDU) requires assistance with respiration to stabilize breathing and control blood gases. HFOT has been successfully applied for the treatment of COPD, bronchiectasis, and do-not-intubate patients.

HFOT is delivered using an Air/Oxygen Blender connected to a wall outlet or gas cylinders, a Heater Humidifier with Chamber, Breathing Circuit with Heated Wire and go through the patient ends with a High Flow Nasal Cannula (HFNC), Tracheostomy Interface or Face Masks.



Air / Oxygen Blenders

Durable Housing

- The curved surface is smooth and easy to clean

Slide Mount

- Easily mounted with the mounting bracket



Primary Outlet

- CGA V-5 1240 (DISS) connector with check valve
- Compatible with GENTEC flowmeter

Control Knob

- Ergonomic design provides smooth and easy control
- Easy adjustment of oxygen concentration from 21% to 100%

Color Coding

- Available in both NFPA 99 and ISO 32 Color Code



Auxiliary Outlet

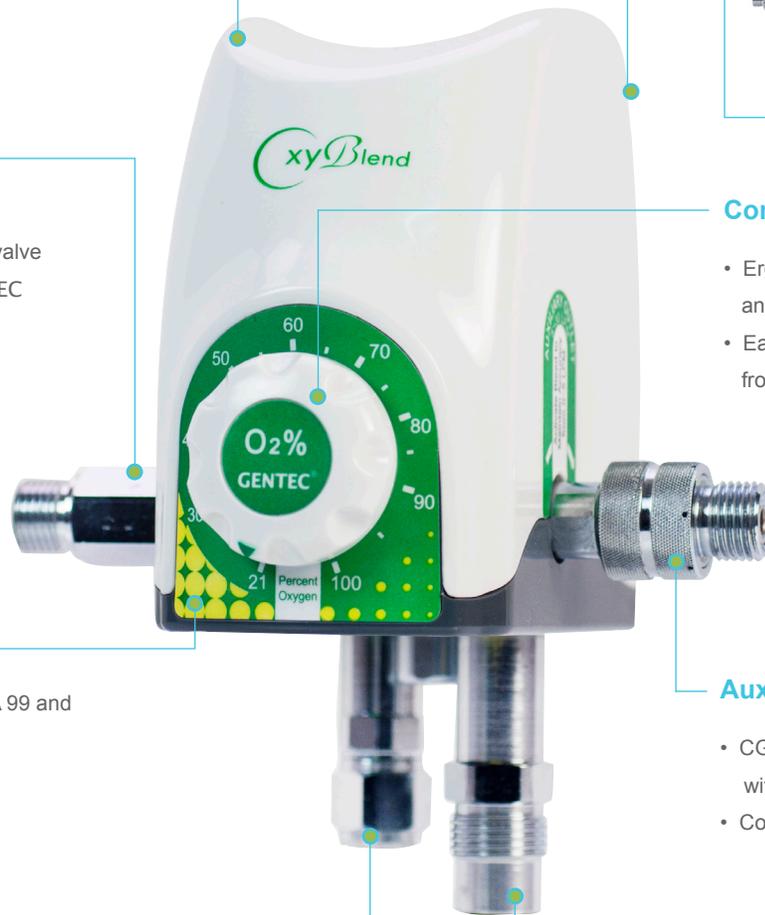
- CGA V-5 1240 (DISS) connector with check valve
- Compatible with GENTEC flowmeter

Oxygen Inlet

- USA standard: CGA V-5 1240 (DISS) oxygen connector
- ISO standard: ISO 5359 A8 (NIST) oxygen connector
- Compatible with GENTEC medical hose

Air Inlet

- USA standard: CGA V-5 1160 (DISS) air connector
- ISO standard: ISO 5359 A3 (NIST) air connector
- Compatible with GENTEC medical hose



HIGH FLOW OXYGEN THERAPY

Air/Oxygen Blenders GMX Series

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Features

- Suitable for use in Emergency Room and ICU where accurate oxygen concentration is required
- Double-ended proportioning valve enables easy adjustment of oxygen concentration from 21% to 100%.
- Two-stage pressure-balancing mechanism is adopted to deliver steady oxygen concentration.
- Two outlet ports and bleed valve allow a wide range of applications
- Internal bypass and alarm mechanism ensure safe use.
- Accuracy: $\pm 3\%$ FS



Ordering Information

GMX30	U -	AIR/O ₂ -	NS &	P15	A6 &	OH	3
Model Number	Color Code	Gas Code	Default Connections	Primary Flowmeter	Auxiliary Flowmeter	Hose Assemblies	Hose Length
GMX120 (15~120 LPM)	E: ISO 32 U: NFPA 99 (USA)	AIR/O ₂	Null: Default Connections * DS: ISO Color Code with DISS Inlet Connector NS: NFPA 99 Color Code with NIST Inlet Connector * Default connections for "E" ISO 32 color code uses NIST inlet connection and default connections for "U" NFPA 99 color code uses DISS inlet connection	Null: No Flowmeter P0: Plugged port P15: 0~15 LPM P25: 0~25 LPM Null: No Flowmeter P0: Plugged port P50: 0~50 LPM P70: 0~70 LPM	Null: No Flowmeter A0: Plugged port A15: 0~15 LPM A25: 0~25 LPM Null: No Flowmeter A0: Plugged port A50: 0~50LPM A70: 0~70LPM	Null: None Connection to Gas Outlets OH: Ohmeda® Adapter FS: 3105 (FS) Series Adapter GS: 3106 (GS) Series Adapter BS: 3107 (BS) Series Adapter JIS: 3108 (JIS) Series Adapter SIS: 3109 (SIS) Series Adapter Connection to Regulators DS: DISS Adapter	3: 3 M

Accessories



FM897-15L(ASD-L)
Left Flowmeter,
DISS Handwheel adapter



FM897-15L(ASD-R)
Right Flowmeter,
DISS Handwheel adapter

Hose Assemblies (USA)



34U-OXY-FDS/XX-L

34U-AIR-DS/XX-L

Hose Assemblies (ISO)



34I-OXY-NS/XX-L

34I-AIR-NS/XX-L

Rail Mount



GHU-CLP-D30
Rail Mount
for
Heater Humidifier

CLP-D40-45
Rail Mount
for
Air/Oxygen Blender

Condensation Trap



Hose Barb



3100E-HB-01
(Green/White)

3102A-OXY-HB4
3102P-OXY-HB4

High Flow Flowmeter
Hose Assembly



Medical Trolley



TC-802

Disposable Breathing Circuit with Single Heated Wire

Breathing Circuits are designed to have low airflow resistance to deliver continuous air with constant temperature and humidity, establishing a respiratory connection between anesthesia or ventilator machine with the patient. The GENTEC® Disposable Breathing Circuits are available of adult, pediatric, and neonatal sizes.



Model Number	Product Composition					
	Connection Tube	Oxygen Connector	Inspiration limb for Adult	Inspiration limb for Child	Inspiration limb for Neonate	Humification Chamber
AHWC-110	√	√	√	-	-	-
AHWC-111	√	√	√	-	-	√
CHWC-110	√	√	-	√	-	-
CHWC-111	√	√	-	√	-	√
NHWC-110	√	√	-	-	√	-
NHWC-111	√	√	-	-	√	√

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Humidification Chamber

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Humidification Chamber

The Humidification Chamber is an essential component of a breathing system. The chamber automatically refills as well as actively warms and humidifies inspired respiratory gases delivered to patients. This helps prevent nasal and throat irritation caused by extremely cold or dry inspired gases during therapy, such as sore throat, nasal congestion, runny nose, or even nosebleed in some circumstances. The Humidification chambers are available both in Reusable and Single use Chambers. Different sizes are available to cater to the different needs of Adult and Neonatal patients.



Features

Double-side Buffer Design

- Prevent direct air flow colliding with water surface.
- Provide consistent humidity and heating performance.

Autofeed Function

- The first Autofeed Reusable Humidification Chamber on the market, bright color designed buoy for direct observation.

Clear Design

- Designed with a floating ball for quick and easy monitoring (688-111E model)
- Accurate water level assessment without the need of adjusting the chamber's direction.



Protection and Identification Function

- Protects the chamber from contamination before usage.
- Simply check the strap to identify whether the chamber is sealed and protected.

Highly Compatible

- 22mm connectors allow compatibility with a wide range of ventilator circuits.

High-quality Material

- Reusable model: PPSU materials, autoclavable up to 134°C
- Single use model: Strong and clear materials.

Ordering Information

Model Number	Specifications
688-111	Auto-feeding Humidification Chamber (single use) Larger volume
688-121	Auto-feeding Humidification Chamber (single use) Small volume
688-211	Auto-feeding Humidification Chamber (reusable) Larger volume
688-221	Auto-feeding Humidification Chamber (reusable) Small volume
688-110	Manual-feeding Humidification Chamber (single use) Larger volume
688-120	Manual-feeding Humidification Chamber (single use) Small volume
688-210	Manual-feeding Humidification Chamber (reusable) Larger volume
688-220	Manual-feeding Humidification Chamber (reusable) Small volume

HIGH FLOW OXYGEN THERAPY

Features

- Used in conjunction with humidification chamber and heated wire breathing circuits to deliver gas with constant temperature and humidity
- Soft silicone material to avoid damage to the nostrils and improve patient's comfort
- Neonatal Nasal Cannula is equipped with allergy-free medical hydrocolloid patches for fixation with no glue residue
- Standard 22OD/15ID adapter, which can be connected to different types of breathing circuits
- Suitable for patients with chronic obstructive pulmonary disease (COPD), respiratory failure, or under postoperative care
- Available in many sizes for adult and neonatal, as well as tracheostomy interface
- Disposable product with maximum use of 7 days

Adult Nasal Cannula



Ordering Information

Name	Model Number	Flow rate (L/min)
Adult Nasal Cannula L	681-101	10-60L/min
Adult Nasal Cannula M	681-102	10-60L/min
Adult Nasal Cannula S	681-103	10-50L/min

Neonatal Nasal Cannula

Double-winged design with soft silicone material to reduce pressure on the nostrils and maintain continuous air-flow

Allergy-free medical hydrocolloid patches for fixation with no glue residue

Standard 22OD/15ID can be connected to different types of breathing circuits



Slide the adjuster to keep tubes in place

Flexible dual-tube design offers light-weight and less pressure points on the face



Ordering Information

Name	Model Number	Flow rate (L/min)
Neonatal Nasal Cannula XL	681-200	0.5-25L/min
Neonatal Nasal Cannula L	681-201	0.5-25L/min
Neonatal Nasal Cannula M	681-202	0.5-20L/min
Neonatal Nasal Cannula S	681-203	0.5-9L/min
Neonatal Nasal Cannula XS	681-204	0.5-8L/min

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High Flow Nasal Cannula

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Tracheostomy Interface

Flexible and lightweight reinforced tube, to ensure continuous air-flow and prevent the tube from being folded

Standard 22OD/15ID can be connected to different types of breathing circuits

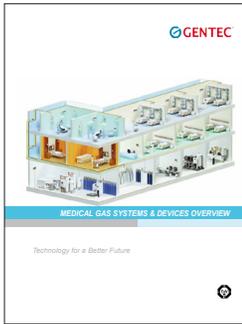


Semi-open interface design prevents sputum or dirt from splashing and facilitates centralized treatment

Lanyard design to maintain the position of the tube

Ordering Information

Name	Model Number	Flow rate (L/min)
Tracheostomy Interface	681-105	10-60L/min



Medical Gas Systems & Devices Overview

- Medical Gas Systems Total Solution
- Source Equipment
- Zone Valve Box & Area Valve Service Unit
- Monitoring Alarm & Control System
- Art Wall Enclosure
- Medical Console Units
- Medical Gas Outlets
- Anaesthetic Gas Scavenging System
- Oxygen Therapy
- Suction Therapy



Respiratory Care Series Products

- NebuCare In-line Electrical Nebulizer
- NebuSmart All-in-one Nebulizer
- Disposable Collection System
- G-Smart Adult Test Lung
- Respire CPAP Mask



Anesthesia Ventilation Circuit System

- Anesthesia, Breathing Circuit for Adult
- Anesthesia, Breathing Circuit for Pediatric
- Accessories



Oxygen and Suction Therapy

- Flowmeters with Humidifiers
- Medical Flowmeters
- Flowmeter Accessories
- Medical Flowmeters and Connectors
- Oxygen Flowmeter Regulators with Humidifier
- Suction Regulators
- Venturi Vacuum Regulators
- Suction Traps
- Suction Gauges & Venturi Vacuum Modules
- Venturi Vacuum System
- Disposable Collection Systems
- Reusable Collection Systems



Medical Alarm System

- ATLAS Alarm Overview
- Medical Gas Area Alarm
- Medical Gas Master Alarm
- Medical Gas Combination Alarm
- Advanced Applications



Medical Pipeline System

- Medical Gas Systems Total Solution
- Source Equipment
- Zone Valve Box & Area Valve Service Unit
- Monitoring Alarm & Control System
- Art Wall Enclosure
- Medical Console Units
- Medical Gas Outlets



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