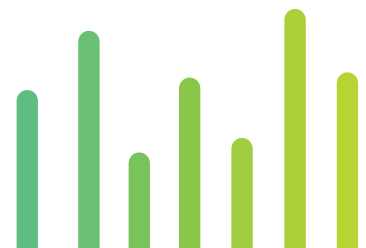




Ecomed
Medical (Pty) Ltd

Advanced
Respiratory
Care Solutions



Scan and browse our website
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VAPOTHERM®
PRECISION FLOW HI-VNI



VAPOTHERM®
HVT 2.0 - MASK FREE NIV



inspired™
O2FLO



inspired™
O2FLO PRO



sentec.
tCOM+



Humidified High-Flow Therapy

High-Flow Oxygen Therapy

Transcutaneous CO2 Monitoring

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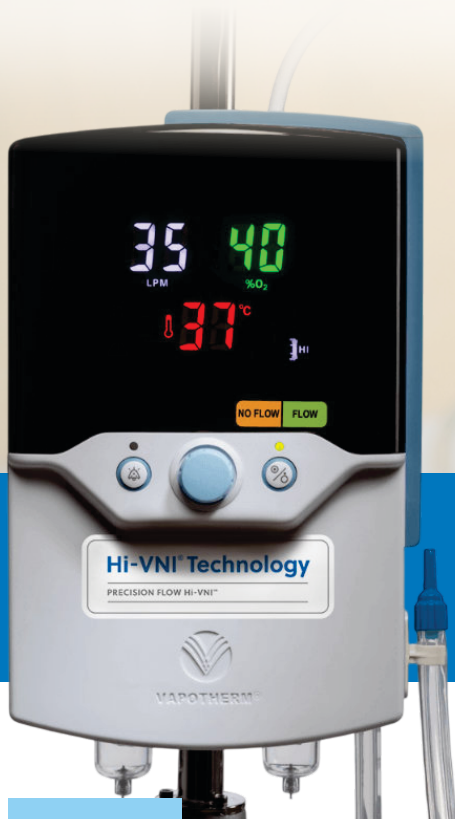
Sentec

tCOM+

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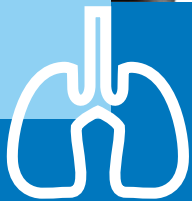
PRECISION FLOW HI VNI supports patients of all ages, from neonates to geriatrics, by providing comfortable respiratory therapy that allows eating, speaking, and sleeping.

It helps reduce breathing effort, improves secretion clearance, may prevent intubation and ICU admission, features simple setup and operation, and includes built-in safety alarms for uninterrupted therapy.



No Mask. No Problem.™

Mask-Free NIV™ for Spontaneously Breathing Patients



EFFECTIVE AND GENTLE RESPIRATORY SUPPORT FOR THE PATIENT

- Treat signs and symptoms of respiratory distress, including dyspnea, hypercapnia, and hypoxemia.
- Manage high acuity patients with less invasive and more comfortable respiratory therapy.



CONFIDENCE AND EASE OF USE FOR THE CLINICIAN

- The system sets up ready to use in 5 minutes, requires minimal patient coaching, and staff intervention.
- Control of flow, FiO₂, and temperature with the touch of a button.
- Designed to eliminate rainout for easy maintenance.
- Integrated alarms simplify patient safety.

Vapotherm Precision Flow Hi-VNI Hi-VNI® Technology

Vapotherm Patient Interfaces

The narrow prong Vapotherm nasal cannula design maximizes flush of expiratory gas and assures an open system.

Medical-Grade-Vapor™

The Vapotherm cartridge infuses the respiratory gas with energetically stable molecular vapor which reduces condensation, mobilizes secretions, protects respiratory tissue, and improves patient comfort.

Single Patient Use Circuit

The disposable patient circuit is comprised of the water path, vapor transfer cartridge, and delivery tube. The water path is separate from the Precision Flow Unit which allows for easy clean up - simply dispose the patient circuit and clean with indicated wipes. Specialty circuits are also available to deliver nitric oxide and aerosolized medication. All circuits are available in High Flow and Low Flow versions.

Connectivity

Vapotherm Precision Flow Hi-VNI comes equipped with Nurse Call and EMR connectivity to improve hospital workflows and efficiency.

Vapotherm Transfer Unit delivers Hi-VNI Technology on the go for easy patient ambulation and transfer.



Water Jacket Delivery Tube

The Vapotherm delivery tube uses the safe, insulating heat of warm water to maintain gas temperature and humidity all the way to the patient to mobilize secretions and maximize comfort. The triple lumen tube is designed to reduce rainout.

Alarms & Alerts

The Precision Flow Hi-VNI incorporates a highly visual display of parameters and utilizes built-in alarms to let you know of any disruptions to the therapy. With Vapotherm, you have the confidence that you are delivering the therapy that you intend.



Precision Flow Hi-VNI Technical Specifications

Family of Precision Flow Cannulas with sizes to effectively fit every patient.



Physical Characteristics

Dimensions	• Height: 11.5" (300mm), width 8" (200mm), depth 7" (180mm), excluding Vapotherm approved roll stand clamp and gas inlet filters
Weight	• 10.6lb (4.81 Kg) without disposable patient circuit
Mounting (Rear mounted clamp)	• Fits Vapotherm approved roll stands up to 1.5" (38mm) diameter

System Requirements

Power	• 100-240VAC, 50-60Hz, < 350VA during warm-up, approx 80VA in steady state (depends on flow rate and temperature) • Up to 15 minutes emergency back up power
Water	• Sterile water in pre-filled container. Circulating water volume of approx 400 ml
Gas supply required	• Medical air and oxygen at inlet pressures between 4 and 85 psi (28-586 kPa) NOTE: the full range of flows and oxygen percentage is available only if both gases are present at inlet pressures of at least 40psi (276 kPa)
	• Standard DISS or NIST non-interchangeable fittings for medical air and oxygen

Performance

Temperature	• Range: 33 to 39° C, 1° C Resolution
Oxygen Percentage	• Range: 21 to 100% % O ₂ , 1% O ₂ Resolution
Flow Rate	• High Flow: 5-40 LPM, 1.0 L/min Resolution • Low Flow: 1- 8 LPM, 0.5 L/min Resolution
Operating Environment	• Ambient temperature: 18-30° C • Ambient relative humidity: 20-90% RH non-condensing • Ambient Pressure: 86 kPa to 108 kPa - Not to be used in hyperbaric conditions
Storage and Shipping	• Ambient temperature: -10 to +50° C • Ambient relative humidity: 20-90% RH
Standards	Designed to conform to the following standards: • IEC 60601-1 • CSA C.22.2/No. 60601.1 • EN60601-1 • ISO 11195 • IEC 60601-1-2:2014 • UL60601-01 • AS/NZS 3200.1.2 • ISO/IEC 80601-2-74 • ISTA-2A
Accessories	• IV Pole for PF Unit • Q50 Compressor for PF Unit • Disposable Patient Circuit (DPC) -High Flow (5-40 L/min) -Low Flow (1-8 L/min) • Patient Interfaces • TA-22 Trach Adapter • AAA-1 Aerogen Aerosol Adapter • Vapotherm Transfer Unit <i>*Nitric Oxide and aerosolized medication compatible disposables available as well</i>
Connectivity	• RS-232 bi-directional communication • 3 pin 3.5 mm stereo audio jack for Nurse Call connection with three adapter cables available: 1/4" normally open (3101138), 1/4" normally closed (3101139), and unterminated (3101140)



Your first choice for treatment of respiratory distress.



Seamless mobility, connectivity, and ventilatory support for your patients.

Anytime. Anywhere. Our solution is powered by AC with an internal battery to add safety in the event of a power failure, an accessory battery for additional power needs, and has an internal blower that eliminates the need for air tanks during patient transfer.

Mounted on our ergonomically designed trolley and engineered to hold two O2 cylinders it allows you to safely maintain therapy, when and where you need it throughout the hospital – untethered from the wall with optimal mobility.

Pre-assembled disposable patient circuit for simple set-up and infection control

Features EMR connectivity and Nurse call functionality*

Bridge the gap between symptom relief and patient comfort.
Designed to streamline clinical workflows and outcomes.

Our pioneering high velocity therapy provides ventilatory support that is quick to initiate, comfortable, and works seamlessly with spontaneous breathing patterns to stabilize your respiratory distressed patients. Vapotherm HVT 2.0 could help you reduce the need for a higher level of respiratory support.

Optional battery provides up to 1 hour run time (when disconnected from AC).

Utilizes Vapotherm's clinically proven high velocity therapy to reduce the work of breathing and treat hypercapnia and hypoxemia.

Frees up clinician time for patient triage through intuitive design and simple set-up.



Enables patient continuum of care within the hospital with an internal blower and fully equipped roll stand that has a large handle for easy mobility.



Patients can comfortably eat, speak, drink, and take oral medication during therapy.

Vapotherm HVT 2.0 cannulas with sizes to effectively fit every patient.

Uses comfortable ProSoft small bore nasal cannulas. Comfortable and facilitates patient communication, leading to higher therapy tolerance and compliance.



HVT 2.0 is simple to use and fast to set up. Built to work for you and your patients.

Vapotherm HVT 2.0 uses our revolutionary high velocity therapy and is ready for use in approximately 5 minutes. It requires minimal patient coaching, and staff intervention.

A large, intuitive screen gives you clinically relevant feedback from a distance, which means you can make informed decisions quickly, and with confidence.

It maintains patient safety and infection control with a disposable patient circuit, that is simple to change and set-up between patients. It provides on-screen troubleshooting support, and comprehensive alarms that facilitate patient safety and ease of care.

Large, intuitive touchscreen and fully assembled disposable patient circuit enhances efficiency to help drive optimal clinical set-up and efficiency.



Quick-start therapy profiles for fast therapy initiation

Fast warm-up time, and fast disinfection between patients

Audible, tactile feedback and onscreen notifications simplify patient circuit set-up

Physical characteristics

Dimensions	Height 9.1" (23.114 cm), width 11.1" (28.194 cm), depth 12.1" (30.734 cm)
Weight	16 lbs / 7.3 kg
Mounting	Tabletop or roll stand; fits IV poles up to 1.5" (38mm) diameter

System requirements

Power	110 to 240VAC, 50 to 60 Hz • 15-minute emergency backup power at 45 L/min flow rate
Water	Sterile or distilled water in pre-filled sealed bags or bottles
Oxygen supply required	Oxygen or oxygen concentration at inlet pressures between 4 and 65 psi (450 KPa)
Gas connection	Standard non-interchangeable fittings for oxygen (DISS or NIST)

Performance

Temperature	Range: 33 to 39°C at exit from the delivery tube, adjustable, 1°C Resolution
Oxygen percentage	Range: 21 to 100% O ₂
Flow rate	5 to 45 L/min BTPS
Operating environment	Ambient temperature: 18-30°C Ambient relative humidity: 15-90% non-condensing Ambient pressure: Standard atmospheric – not to be used in hyperbaric conditions
Storage and shipping	Ambient temperature: -10 to +50°C Ambient relative humidity: 10-90% RH non-condensing
Accessories	Roll stand Transfer upgrade kit • HVT 2.0 nurse call interface cable
Connectivity	EMR: RS-232 serial connection via an interface cable* Nurse Call: 1/4" modular jack (Contact Vapotherm for cable type compatible with your system)*

*EMR connectivity and Nurse Call not currently available in all markets

It's time to redefine respiratory support.
Improve your experience as well as your patients'
– realize ease of care anytime and anywhere within your hospital.

To find out more about the benefits of mask-free NIV, optimized workflows and the efficiencies Vapotherm high velocity therapy brings visit: www.vapotherm.com

inspired *O2FLO*™ is designed to provide sufficient high flow respiratory support to a wide range of spontaneously breathing patients, across a wide range of treatment environments.

It is smart, safe and user friendly.



Smart



Self-regulating flow rate
2 to 80 LPM



Maintains patient
mucociliary transport



Up to 100% O₂ delivery
(real-time oxygen
concentration display)



Built-in infrared sensor for
water level management



Pre-use SST[®] □ extra safety
precaution meeting the latest
ISO 80601 requirement

User Friendly



HEPA-type filter^{a)} compatible



Simple and intuitive
user interface



Unidirectional gas flow
eliminates the need for device
gas path disinfection



8GB SD Card to record
alarm and usage history



Low flow mode to preset flow
and time interval program

a. Air filter made from HEPA filter media.

b. Short self test.

O2FLO High Flow Heated Respiratory Humidifier



Scientific Publication

In a multi-centre prospective observational study, O2FLO is one of the devices that delivers high-flow nasal oxygen (HFNO), along with another transport ventilator and high flow standalone device from the market. It shows a resource-constrained setting where access to ICU care and mechanical ventilation is limited, HFNO for severe COVID-19-related hypoxaemic respiratory failure (HRF) is **feasible and deliverable even in a ward-based non-critical care environment**, and almost half of those who receive it can be **successfully weaned** without the need for mechanical ventilation. Conversely, mortality in patients who fail HFNO is high.^[1]

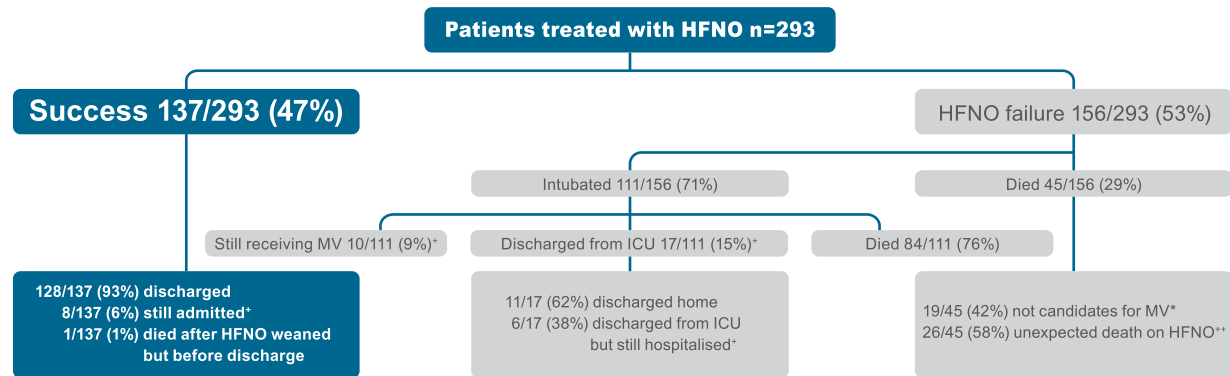


Fig. 1. CONSORT diagram showing outcomes of HFNO and survival to discharge.
HFNO: high-flow nasal cannula oxygen; ICU: intensive care unit;
MV: mechanical ventilation, DNR: do not resuscitate.
Success = weaned from HFNO; Failure = need for intubation or death.

* Triaged due to local facility protocol, DNR order or pre-specified patient preference.
+ Survival to hospital discharge = 139/269 (52%); denominator excludes those still in hospital or ventilated in ICU (n = 24).
++ Sudden death = abrupt unexpected death on HFNO (intubation was not being considered at the time).

In another retrospective study on experience of high-flow nasal cannula (HFNC) oxygen in critically ill COVID-19 adult patients, O2FLO, as one of the devices that delivers HFNO, is proven to provide successful respiratory support in moderate-to-severe cases of COVID-19 in **almost half of the cases without the need for mechanical ventilation**. COVID-19 has quickly brought HFNC into the spotlight, allowing the industry to realize it can also be used as an oxygen therapy strategy for patients with **acute hypoxic respiratory failure (AHRF)** while monitoring the **ROX index**.^[2]

1. G.L. Calligaro et al., The utility of high-flow nasal oxygen for severe COVID-19 pneumonia in a resource-constrained setting: A multi-centre prospective observational study, *EClinicalMedicine* (2020), <https://doi.org/10.1016/j.eclinm.2020.100570>

2. Kerai S, Singh R, Saxena KN, Desai SD, Bhalotra AR. A Retrospective Study on Experience of High-flow Nasal Cannula Oxygen in Critically Ill COVID-19 Adult Patients Admitted to Intensive Care Unit. *Indian J Crit Care Med* 2022;26(1):62-66.

Accessories



O2FLO /// PRO™

High Flow Heated Respiratory Humidifier

The total solution 80LPM therapy including a complete range of consumables

- **Electronic Auto-blending** for
 - ✓ Easy setup
 - ✓ Accurate FiO₂ delivery
- Real time **SpO2 detection (optional)**
 - ✓ **ROX index** as indication of potential treatment effectiveness
- Proprietary **infrared water level detection** allowing time to refill, and PREVENTS
 - ✗ dry-out
 - ✗ overheating
- 4800mAh Battery for **Transport Mode**
- Continuous respiratory support during short distance transport
- **Low Flow Mode** for pre-set treatment interval settings
- Suitable for THRIVE, post-op, patient weaning, COPD, and patients suffering from any other kinds of ARDS
- Interactive touchscreen
- **HEPA-type filter** for clean breathing
- **USB** port for extended function
- **SD card** to record alarm and usage memory

Safer · Smarter

The All-New Nasal Cannulas for Better Comfort & Performance

- Heated Breathing Circuits and Nasal Cannula that delivers up to 80LPM
- Optimal humidification and high flow results with inspired□ package





ADULT

NASAL CANNULA	SIZE	Maximum flow rates(LPM)
● VANC-01	S	Up to 75
● VANC-02	M	Up to 80
● VANC-03	L	Up to 80

- Increased maximum flowrate up to 80LPM
- Soft cheek pads for extra comfort
- 270° - swivel allowing customised fitting for all cheek shapes



PAEDIATRIC / INFANT

NASAL CANNULA	SIZE	Maximum flow rates(LPM)
● VINC-05	XS	Up to 8
● VINC-06	S	Up to 9
● VINC-07	M	Up to 10
● VINC-08	L	Up to 20
● VINC-09	XL	Up to 25

- Increased maximum flowrate up to 25LPM
- Color coded for immediate sizing visualization
- Soft and large cheekpads for reducing pressure on face

Accessories



Adult Nasal Cannula
VANC-01 (S)
VANC-02 (M)
VANC-03 (L)



Adult Nasal Cannula (Premium)
● VANC-01 (S)
● VANC-02 (M)
● VANC-03 (L)



Infant Nasal Cannula
○ VINC-01 (S) ● VINC-02 (M)
● VINC-03 (L) ● VINC-04 (XL)



Infant Nasal Cannula (Premium)
● VINC-05 (XS) ● VINC-06 (S)
● VINC-07 (M) ● VINC-08 (L)
● VINC-09 (XL)



Tracheostomy Interface
VTI-001



Integrated Heated Breathing Circuit
Audlt: 510-049
Paediatric: 510-050



Embedded Heated Breathing Circuit
Audlt: 510-049S
Paediatric: 510-050S



Double Wall Heated Breathing Circuit
Audlt: 510-049D
Paediatric: 510-050D



**Flow Meter BS
Flow Meter GS
Flow Meter DISS**



Oxygen Tube



Trolley with Arm
MT001



Humidification Chamber
VHC60



Double Wall Humidification Chamber
VHC65



Humidification Chamber
VHC80
(Can be Used with Nebulizer)



HEPA-type Filter



Connection Cable
VUN-300

Humidification System



Heated Humidifiers

VHB20

- Large LCD display with night view mode
- Dynamic control of temperature and humidity
- Two modes: Invasive mode and non-invasive mode
- Individual control of expiratory limb of heater wire circuit for enhanced condensation control
- Enhanced safe alarm system, intuitive, fast response to errors
- Wide range of applications: non-heated, single heated and dual heated breathing circuits



Specification

Electrical Rating	110-127 V~, 50/60 Hz, 330 VA, 220-240 V~, 50/60 Hz, 320 VA.
Heated Wire Power	24 VDC, 80 VA (Max)
Heater Plate Overheat Cutoff Temp.	118 ± 7°C
Temperature Range	Invasive Mode: 35-40°C, Default: 39°C Non-Invasive Mode: 30-37°C, Default: 34°C
Weight	1.9kg without Humidification Chamber
Size	L204 × W150 × H159 (mm)
Accessories	51006181 Temperature Probe 51006182 Heater Wire Adaptor (connect to disposable heated wire circuit) 51006183 Heater Wire Adaptor (connect to reusable heated wire circuit)

VHB10A

- Simple one-knob temperature control
- Automatic shut-off when there is no chamber
- Mechanical protection against overheat
- Simplicity with high quality. All functionalities of a basic humidifier.
- Compact & lightweight
- Works with Non-heated breathing circuit



Specification

Electrical Rating	110-127 V~, 50/60 Hz, 160 W 220-240 V~, 50 Hz, 140 W
Heater Plate Temp. Setting Range	45-80°C
Heater Plate Overheat Cutoff Temp.	95 ± 7°C
Weight	1.2 kg without Humidification Chamber
Size	L200 × W140 × H100 (mm)

Humidification Chambers



VHC10



VHC20



VHC25



VHC50

Model No.	VHC10	VHC20	VHC25	VHC50
Type	Disposable	Disposable	Reusable	Disposable
Application	Infant	Adult	Adult	Adult
Fill Water Type	Automatically	Automatically	Manually	Manually
Interface Connections	ISO 5356-1 (22mm Male)	ISO 5356-1 (22mm Male)	ISO 5356-1 (22mm Male)	ISO 5356-1 (22mm Male)
Compressible Volume (Empty)	300 mL	440 mL	640 mL	690 mL
Compressible Volume (Full)	120 mL	260 mL	140 mL	190 mL
Maximum Water Capacity	180 mL	180 mL	500 mL	500 mL
Box Qty	10 pcs/box	10 pcs/box	10 pcs/box	20 pcs/box

Ventilation Breathing Circuit

Dual Heated Wire Breathing Circuits/Kits

Part No.	Circuit Type	Application	Accessories	Qty.
51006884	1.7m embedded heater wire circuits	Adult $\Phi 22\text{mm}$		10/bx
51050996	1.7m embedded heater wire circuits	Pediatric $\Phi 15\text{mm}$		10/bx
51005683	1.5m inspired IIC™	Adult $\Phi 22\text{mm}$		10/bx
51006119	1.5m inspired IIC™	Adult $\Phi 22\text{mm}$	VHC20 humidification chamber, catheter mount	10/bx
51005681	1.5m inspired IIC™	Neonatal $\Phi 10\text{mm}$		10/bx
51006118	1.5m inspired IIC™	Neonatal $\Phi 10\text{mm}$	VHC10 humidification chamber, catheter mount	10/bx
51048500	1.5m corrugated tubing	Adult $\Phi 22\text{mm}$		10/bx
51050942	1.5m corrugated tubing	Adult $\Phi 22\text{mm}$	VHC20 humidification chamber, pressure line	10/bx
51005928	1.5m corrugated tubing	Neonatal $\Phi 10\text{mm}$	Pressure line	10/bx
51005923	1.5m corrugated tubing	Neonatal $\Phi 10\text{mm}$	VHC10 humidification chamber, pressure line	10/bx
51051031	1.5m corrugated tubing	Neonatal $\Phi 10\text{mm}$	VHC10 humidification chamber, pressure line, adaptor kits	10/bx

Single Heated Wire Breathing Circuits/Kits

Part No.	Circuit Type	Application	Accessories	Qty.
51048400	1.5m corrugated tubing	Adult $\Phi 22\text{mm}$		10/bx
51050941	1.5m corrugated tubing	Adult $\Phi 22\text{mm}$	VHC20 humidification chamber, pressure line	10/bx
51006113	1.5m corrugated tubing	Adult $\Phi 22\text{mm}$	VHC20 humidification chamber, catheter mount	10/bx
51051064	1.5m corrugated tubing	Neonatal $\Phi 10\text{mm}$		10/bx
51005924	1.5m corrugated tubing	Neonatal $\Phi 10\text{mm}$	Pressure line	10/bx
51005922	1.5m corrugated tubing	Neonatal $\Phi 10\text{mm}$	VHC10 humidification chamber, pressure line	10/bx
51051030	1.5m corrugated tubing	Neonatal $\Phi 10\text{mm}$	VHC10 humidification chamber, pressure line, adaptor kits	10/bx
51006114	1.5m corrugated tubing	Neonatal $\Phi 10\text{mm}$	VHC10 humidification chamber, catheter mount	10/bx

Non-Heated Breathing Circuits

Part No.	Circuit Type	Application	Accessories	Qty.
51025600	1.8m corrugated tubing	Adult $\Phi 22\text{mm}$	2 water traps, pressure line	10/bx
51025500	1.8m corrugated tubing	Pediatric $\Phi 15\text{mm}$	2 water traps, pressure line	15/bx

Single Limb Heated Breathing Circuits For High Flow Therapy

Model No.	Part No.	Tube length	Application	Tube	Vent-X	Chamber VHC20	Box Qty
510-055	51007091	1.6m	Adult $\Phi 22\text{mm}$	Foam tube	√		10
511-055-C20	51007964	1.6m	Adult $\Phi 22\text{mm}$	Foam tube	√	√	10
510-048	51006723	1.6m	Adult $\Phi 22\text{mm}$	Corrugated tube			10
511-048-C20	51007963	1.6m	Adult $\Phi 22\text{mm}$	Corrugated tube		√	10
510-056	51007093	1.6m	Neonatal $\Phi 10\text{mm}$	Foam tube	√		20
511-056-C10	51007965	1.6m	Neonatal $\Phi 10\text{mm}$	Foam tube	√	√	10
510-047	51006724	1.6m	Neonatal $\Phi 10\text{mm}$	Corrugated tube			20
511-047-C10	51007962	1.6m	Neonatal $\Phi 10\text{mm}$	Corrugated tube		√	10

Meet the tCOM+

Developed with care, designed for confidence.

The tCOM+ offers continuous monitoring of tcPCO_2 , tcPO_2 , SpO_2 , and PR with a sleek new look and feel. This latest model includes significant software advances that improve workflow for providers, while continuing to support reduced blood draws and proactive ventilator management across care areas.

-  Easily access frequently-used features and workflows by saving your team's favorites.
-  Track patient progress with real-time event logging of vent changes, test results, medication administration, and more.
-  Quickly navigate the intuitive, high-resolution touchscreen display.



ACCURATE

Continuous, noninvasive CO_2 values tightly correlate with PaCO_2 regardless of ventilation strategy or degree of V/Q mismatch.



EASY

Long site times, a range of attachment solutions, and sensor features like Smart Cal-Mem mean smoother monitoring experiences at the bedside.



SAFE

Low temperatures and design features promoting skin integrity support safe monitoring in even the smallest, most fragile patients.



TRUSTED

Recommended in a variety of clinical practice guidelines by respected organizations all over the world.

Monitoring that does **more**

More **efficiency**

- Resolve issues quickly with helpful alerts and on-screen tutorials.
- Proactively manage and maintain equipment with dedicated sensor information screens.
- Keep bedside and equipment areas organized with integrated cable management.
- Smart Cal-Mem feature allows temporary disconnection for bathroom breaks, repositioning, and other workflows.



More **flexibility**

- Carry the lightweight tCOM+ by its fold-flat handle or choose a mounting solution that fits your team's needs.
- Connect with patient monitoring systems (PMS), patient data management systems (PDMS), and polysomnographic systems (PG/PSG).
- Use with both the V-Sign™ and OxiVenT™ sensors.



More **options**



MULTI-SITE ATTACHMENT RING
For mature, intact skin



MULTI-SITE ATTACHMENT RING
For sensitive, fragile skin



NON-ADHESIVE WRAP
For gentle attachment in VLBW infants, especially in high-humidity environments



STAYSITE® ADHESIVE
For even more secure adhesion in sweaty or mobile patients



EAR CLIP
For unobtrusive attachment in older children and adults



SINGLE-DOSE CONTACT GEL
For convenient workflow & infection control

FEATURES OF V-STATS 5.02

Graphic Window (main window)

For all parameters/channels, trend data curves and event markers along with the most important statistical results are shown in the graphic window.

- The «PCO₂ baseline» and residual drift corrected data (if enabled) are additionally displayed in the PCO₂ channel as well as the «PO₂ baseline» in the PO₂ channel
- The patient/file names are indicated along with the displayed time range (if access is enabled)
- The values and date/time at the cursor position (if set) are indicated
- Scrolling and zooming in/out functions permit to adjust the displayed time range

Patient Assignment

Prior to downloading/importing data from the SDM or from a raw data file stored on the PC, the desired measurement(s) can be assigned to the respective patient(s) by means of a table displaying the start- and end-times of all available measurements.

Note: Patient information can only be entered if the responsible organization enables the access. Ensure compliance with local data protection regulations before entering personal data. Non-authorized persons must not have access to patient information.

PCO₂- and PO₂-Baselines

Automatic determination of the PCO₂- and PO₂-Baseline (i.e. the PCO₂/PO₂ reading at the end of the PCO₂(PO₂) stabilization) when downloading or importing data. The PCO₂(PO₂) baseline is shown in the PCO₂(PO₂) channel as a red horizontal line. Optionally the PCO₂(PO₂) baseline can be set manually.

Correction of Residual PCO₂ Drift

The PCO₂ drift correction recognizes the residual technical PCO₂ drift of the TC Sensors. If the data of the PCO₂ calibrations just before and just after the measurement are available, the drift corrected PCO₂ data is displayed as a blue curve, in addition to the green curve of the original PCO₂ data. The PCO₂ baseline determination as well as the data analysis are performed using the drift corrected PCO₂ data. Optionally the PCO₂ drift correction can be deactivated.

Event Markers

After downloading/importing measurement data, V-STATS automatically analyzes the data, using the analysis criteria that are currently active. Colored markers highlight the detected events on the graphs. User-defined event markers – set during measurement as many time as desired – are displayed as triangles above the graph window of the corresponding measurement curve. The following event types can be distinguished:

- **PCO₂-related events:** upper/lower thresholds, fall/rise, Baseline ranging
- **SpO₂-related events:** desaturation, upper/lower threshold
- **PR-related events:** upper/lower thresholds, rise
- **Invalid measurement periods** (e.g. «Sensor off patient»)
- **SDM (monitor) events** (e.g. «Calibrate sensor», «SpO₂ low signal», etc.)
- **Artifacts** (e.g. SpO₂ below a predefined level)
- **Operator marked** (pushing ENTER on SDM)

Data Analysis/Evaluation Period

Data analysis includes statistical data analysis, detection of physiological events, artifacts and invalid measurement periods. Data analysis criteria and the evaluation period are user adjustable. Artifacts additionally can be determined manually (with the mouse or in the menu). Periods with artifacts are excluded from data analysis. Optionally periods with SDM events can be excluded from data analysis.

Report

A report is assembled after data analysis. The report can be viewed on screen. Comments and diagnoses may be entered for printing.

The report provides the following statistical results:

- Distribution curve and table, minimum, maximum, mean, median for all channels, standard deviation for PR
- Number of events with SpO₂ values smaller than a selectable level (default 88%) that last longer than a selectable duration (default 5 min)
- Number of events with PCO₂ values above a selectable level (default 50 mmHg) that last longer than a selectable duration (default 5 min)

The report provides for each of the twelve physiological events (PCO₂, SpO₂, PR) the following information:

- Statistical results (number of events, duration of the longest event, average duration of an event, time in events, time in events/hour, index [number of events per hour])
- Event distribution (number of events within a selectable time interval)
- Event list (chronological list of all events and the time they occurred)

Printing the Report and Graphs

- The elements of the report to be printed are selectable
- The time resolution per printed page can be selected for the printout of the trend curves
- Printing is possible with Windows compatible printers, including PDF-printer

Setting up the Channels

Various possibilities to configure the channels for easier handling (PCO₂ units, channel labels, channel colors, etc.)

Configuring the SDM

By using V-STATS within a password-protected area in conjunction with SDMs with firmware version SMB-SW V08.00 or higher, the institution

- Can pre-configure certain (safety relevant) parameters (e.g. alarm or sensor temperature related settings)
- Can select between «Basic Mode» and «Institutional Mode» to handle parameters settings. In «Institutional Mode», the institution can define up to four different parameter settings, one at the time can be defined as «Standard Parameters Setting», which is used as power-up setting or which can be restored by the operator via SDM menu
- Has the possibility to manage «SDM Parameters Settings». Examples of available functions include «Restoring Factory Parameters Setting», «Copying a SDM Parameters Setting» from the SDM to V-STATS etc. Various preconfigured «SDM Parameters Settings» tailored to the specific needs of different clinical settings (e.g. ICU, Sleep Lab, NICU) are available in V-STATS.

File Manager

The patient data manager conveniently allows to archive, copy, move, delete, rename or open measurement data.

- The data can be exported in different formats (e.g. text, Excel-compatible, European Data Format [EDF]) or sent via internet
- A systematic search for data is possible (patient name)
- Raw data files can be imported

Remote Monitoring with V-CareNeT

Once activated, V-CareNeT Package – incorporated within V-STATS – enables simultaneous remote monitoring and secondary alarm surveillance for up to 40 SDMs connected to the same network as the PC with V-STATS, i.e. the PC with V-STATS is used as a central station for patient monitoring. For all admitted patients the central station displays all relevant SDM data and alarms. With the V-CareNeT system it is furthermore possible to download trend data stored in the internal memory of the SDM via the network.

Supported Languages

- English
- German
- French
- Spanish
- Italian
- Portuguese
- Polish

Support/Help

Context-sensitive online help, Hotline, and for troubleshooting (or teaching) screenshots of the SDM screen can be downloaded with V-STATS.

SYSTEM REQUIREMENTS

- SDM with SMB V08.00 or higher
- Multi core at 2 GHz and higher
- Windows® 7, 8, 8.1, 10, 11
- 4 GB memory
- 1 GB free space on hard disk
- Communication port (serial or serial via USB2 Serial Converter)
- 10 Base-T network connection
- 2560x1440 screen resolution for 40 beds (smaller resolution will support fewer beds)
- Integrated speaker system required for auditory alarm signals





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22 Waboom Street, Glen Barrie,
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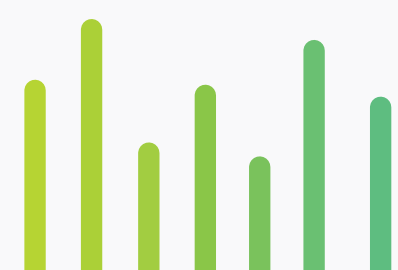
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