

**PRECISION***flow*<sup>®</sup>

Accuracy matters





## Introducing The Next Generation of High Flow Oxygen Therapy

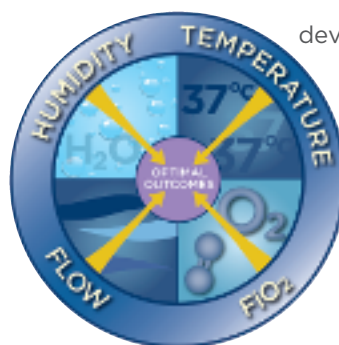
# PRECISION<sup>flow</sup>

**Takes The Technology of High Flow Oxygen Therapy To The Highest Level of Sophistication**

Vapotherm, the leading innovator of high flow oxygen therapy takes the science of heating and humidifying breathing gases to a dramatic new level with the creation of PRECISION FLOW.<sup>®</sup>

### INNOVATIVE TECHNOLOGY

PRECISION FLOW<sup>®</sup> is a high flow heat and humidification device for the non-invasive delivery of inspired gas flows from 1 to 40 liters per minute.



The technology delivers a perfect synchronization of flow, temperature, humidity and oxygen percentage without discomfort via nasal cannula.

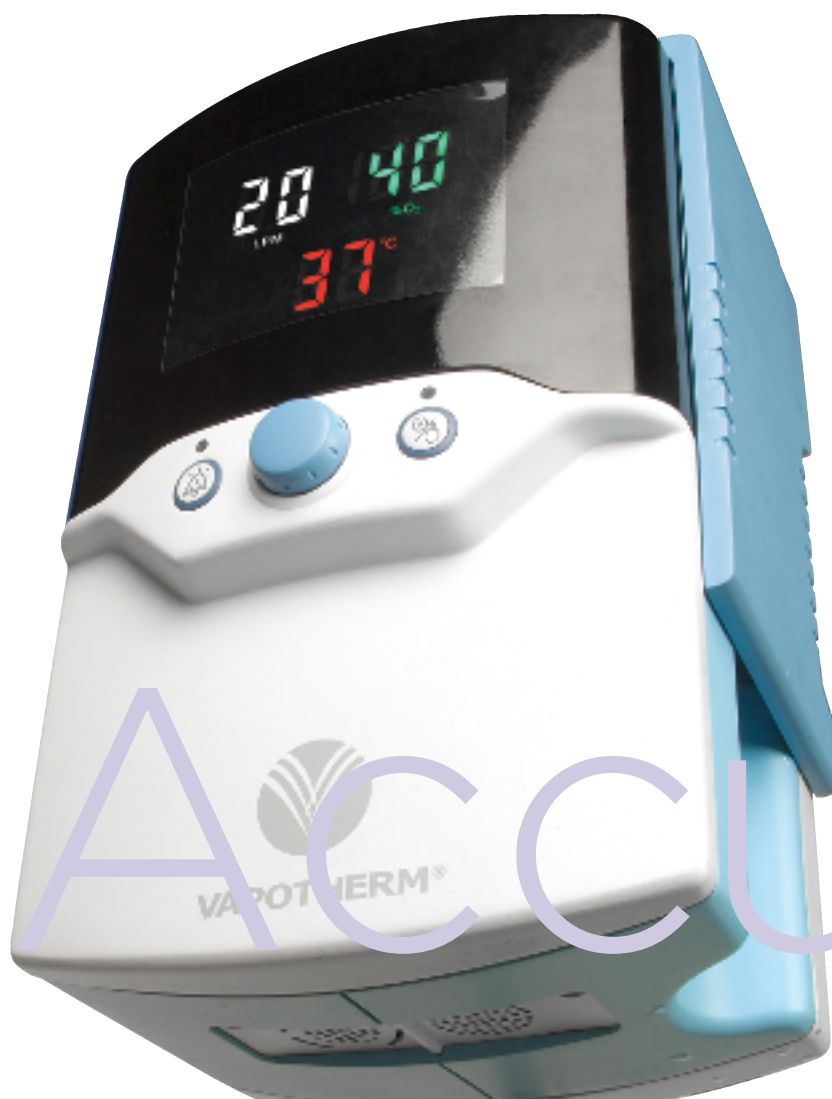
### CONTROL THE FACTORS THAT MATTER

PRECISION FLOW<sup>®</sup> moves beyond conventional humidification, giving the clinician the ability to manage the key factors in gas conditioning to achieve desired outcomes.

### MAXIMUM SAFETY, MINIMAL INVASIVENESS

PRECISION FLOW<sup>®</sup> helps clinicians reach their goal to deliver the maximum respiratory assistance safely and comfortably. More invasive techniques can result in iatrogenic effects and increased costs.<sup>1</sup> No other High Flow device incorporates these safety features:

- Precise measurement of temperature and flow
- Built-in oxygen blender and oxygen sensor
- Disposable patient circuit
- Battery backup



Accuracy matters

# Accuracy



## DESIGNED FOR EASE OF USE

Working with the respiratory community, PRECISION FLOW® was designed with the clinician in mind, providing easy set up, operation and maintenance including:

- Rapid set up and circuit priming
- Single button control for flow, oxygen percentage and temperature values
- Color-coded, uncluttered display for alarms and indicators
- Engineered for reliability and streamlined maintenance

## WORKS TO PRECISION IN ANY SETTING

PRECISION FLOW® allows for the delivery of a broad range of flows at up to 100% relative humidity, providing effective, well-tolerated treatment for a variety of conditions via nasal cannula.

### Care Settings

- Adult Intensive Care
- Pediatric Intensive Care
- Neonatal Intensive Care
- Emergency
- Burn Centers
- Pulmonary Rehabilitation
- Post Operative Care
- Palliative Care

### Applications

#### Oxygenation and Humidification

- Used in Neonatal, Pediatric and Adult Applications

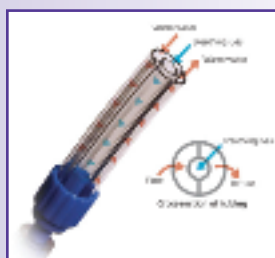
<sup>(1)</sup> Jorge Rojas, The use of VapoTherm in an NICU. Effects on respiratory support and cost. Respiratory Care 2006; Vol 50 No 11.

## KEY COMPONENTS



### Disposable Patient Circuit

No disinfection necessary: the patient circuit is detachable and disposable.



### Patient Delivery Tube

Patented triple lumen design, air is surrounded by two water filled channels.



### Vapor Transfer Cartridge

Core humidification technology allows molecular water vapor to pass into the gas stream, preventing contact between water source and breathing gas.

### Oxygen Blender

Can be used with air or oxygen independently. Does not require a 50 psi source.



Respiratory matters



# PRECISION<sup>flow</sup>

## Products and Accessories

### PRECISION FLOW<sup>®</sup> DEVICE

The PRECISION FLOW<sup>®</sup> is a high flow device designed to heat, humidify and blend medical breathing gases for delivery to the patient. This includes an Accessory Kit which contains the following: oxygen sensor, air and oxygen hoses and gas inlet traps, electrical cord, Operating Instruction Manual and Quick Reference Guide.



### DISPOSABLES

#### Disposable Patient Circuit

The disposable patient circuit is comprised of the disposable water path, vapor transfer cartridge and delivery tube. The entire disposable patient circuit is available in either High Flow or Low Flow versions.

The Vapotherm Low Flow Cartridge is generally used for neonates and the High Flow Cartridge is used for adult and pediatric applications.



#### Cannulas

A series of specially designed cannulas are available for attachment to the Disposable Patient Circuit. Sizes include: Premature, Neonatal, Infant, Intermediate Infant, Pediatric, and Adult.



### ACCESSORIES

#### PRECISION FLOW<sup>®</sup> Stand

The PRECISION FLOW<sup>®</sup> device can be attached to the Vapotherm<sup>®</sup> IV pole.



### TECHNICAL SPECIFICATIONS

- Built-in oxygen blender. Oxygen percentage is fully adjustable from 21 to 100% when two 40 psi (276 kPa) gas sources are used.
- Inlet gas pressure range is 4-70 psi (28-482 kPa). At low gas inlet pressures, maximum flow rate and oxygen percentage settings are automatically reduced to match the inlet pressure.
- Two alarm levels indicate low and medium priority alarm conditions. IEC60601-1-8 compliant.
- Internal battery backup maintains flow and oxygen percentage for 15 minutes if AC power is cut off. Battery recharges in 1-2 hrs.

### KEY BENEFITS

- No disinfection necessary. The patient circuit is detachable and disposable.
- Temperature, flow and oxygen percentage are adjusted via a single setting control knob on the front panel.
- Automatically senses cartridge type — maximum flow setting is automatically reduced if low-flow cartridge is installed.
- Easy connection between the delivery tube and disposable water path by a simple press and click fitting.
- All values and alarms displayed in a single large color-coded panel.
- Scheduled maintenance for internal components at 3 year intervals, external gas filters replaced at 6-month intervals, external oxygen sensor replaced annually.
- Universal power requirements allow use anywhere with only a change of power cord.



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