VapCare

CE FDA

World's first intelligent oral hygiene management system for ventilated patients

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Main Control Unit

- Independent channels for intermittent removal of secretions from oropharyngeal and subglottic regions.
- User defined suction frequency (from 15 mins to 420 mins) and pressure control
- User-defined frequency of oral lavage (from 15 mins to 420 mins)
- Tube occlusion detection and clearance

VC Lumen

- Single, curved, soft lumen with atraumatic tip to remove oropharyngeal secretions
- Connection to the subglottic port of SSD Endotracheal Tubes to enable subglottic suctioning
- In-built ports to administer antibacterial lavage throughout the oral cavity.
- Holder positioned on upper lip with integrated rail, foam padding and a clip mechanism for securing the VC Lumen.

Sensing Unit

- Patented sensing technology for secretion detection.
- Sensor controlled suctioning duration.

Connections

- All compatible with standard SSD (subglottic secretion drainage) Endotracheal Tube for removal of secretions from the subglottic region
- Works with standard wall mounted suction line
- Independent color-coded channels for ease of use

Clinical Studies & Pilots:

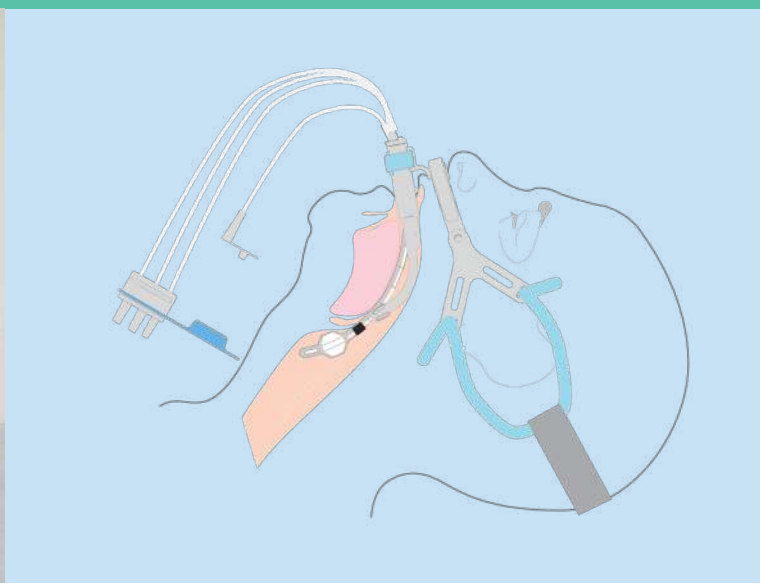
- 30-patient, single-arm safety and efficacy trial completed: 250ml daily secretions collected: no cases of injury.
- 6-patient, two-arm case study comparing VapCare to manual care for Covid patient care complete; 70% reduction in nurse time at bedside.
- ~420-patient, two-arm VAP prevention study comparing VapCare and manual SoC on-going
- 106 patient study concluded, studying the progression of LUS and CPIS in VapCare vs manual care patients.

Certificates

FDA

CE

WORLD'S FIRST AUTOMATED SECRETION CLEARANCE AND ORAL HYGIENE MANAGEMENT SYSTEM FOR VENTILATED PATIENTS



Automated

- Improved consistency of and compliance to VAP prevention protocols
- Reduced risk of cross infection from patients to caregivers
- Improved nursing staff efficiency

Intelligent

- Intermittent and sensor-based suctioning reduces the risk of mucosal injuries
- Identification and mitigation of port blocks

Redefining Oral Hygiene Management

- Enables physicians to customize care as per individual patient's need

Awards and Grants

- Go Austria Award
- MedTech Innovator
- Silver Award at MassChallenge Boston
- Biotechnology Ignition Grant (BIG)
- Top 16 Healthcare Technology Global: American College of Cardiology

Technical Specifications

Functional Flow Rate(nominal):	Range ~22 L/min
Pressure Output:	Max ~285 mm Hg Operating Mode Max ~300 mm Hg Safety Cut Off
Maximum Input Pressure and Flow Rate:	~520 mmHg Flow: 60 LPM
Power Supply Unit:	110-120 VAC 1.9 A (INPUT) 180-220 VAC 1.1 A(INPUT) 50/60 Hz
Protection Class as per I C60601-1:	Type B Class I
Risk Classification as per 93/42/EEC,1X:	II A
Degree of Protection (IP Code) as per I C60529:	IP20
Weight:	Approx. 3.9 kg
Dimensions (LXWXD) in mm:	VapCare MCU (LxWxH) - 321x185×121mm Sensing Unit (LxWxH) - 73×44×27 mm
Pressure Measurement Accuracy:	>90% Full Scale Value
Operating Mode, Type:	Intermittent Suction, Medium Vacuum Equipment
Operating Time:	Continuous Operation
Battery Power Backup:	Minimum 30 minutes when full loaded

Ordering Information:

VapCare System Catalogue Number:	F1-01-000-00-000
VC Lumen Catalogue Number,:	F1-02-NA0-00-000
VC Tubing Catalogue Number,:	F1-02-NB0-00-000
VC Holder Catalogue Number,:	F1-02-NC0-00-000
VC Filter Catalogue Number,:	F1-02-ND0-00-000

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