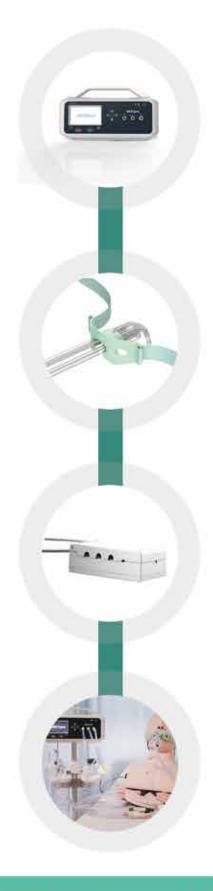


World's first intelligent oral hygiene management system for ventilated patients



#### **Main Control Unit**

- Independent channels for intermittent removal of secretions from oral, 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 redressal

## VapLumen

- Adjustable lumen with graduated markings
- Integrated bite blocker
- Additional instrument ports for insertion of Ryle's tube/orogastric tube, fiber optic scope
- Atraumatic tips in the oropharyngeal region and fins below oral ports to prevent mucosal injury
- Antibacterial oral lavage system to ensure delivery throughout oral cavity

## **Sensing Unit**

 Patented sensing technology for secretion detection and controlled suctioning

# Connections

- 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 colour coded channels for ease of use

#### Validation





#### **Clinical Studies and 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.
- 12-patient, two-arm case study comparing VAP prevention with VapCare vs manual SoC in Covid patients complete; No VAP cases in treatment arm vs. 50% in control arm.
- -400-patient, two-arm VAP prevention study comparing VapCare and manual SoC on-going

# 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



Med Tech Innovator



Silver Award at MassChallenge Boston



Biotechnology Ignition Grant (BIG)



lop 16 Healthcare Technology Global: American College of Cardiology

# **Technical Specifications**

Functional Flow Rate (nominal)

Pressure Output

Maximum Input Pressure and Flow Rate

Power Supply Unit

Protection Class as per IEC 60601-1

Risk Classification as per 93/42/EEC,IX

Degree of Protection (IP Code) as per IEC 60529

Weight

Dimensions (LXWXD) in mm

Pressure Measurement Accuracy

Operating Mode, Type

Operating Time

Battery Power Backup

Range ~22 L/min

Max -285 mmHg Operating Mode Max -300 mmHg Safety Cut Off

-520 mmHg Flow: 60 LPM

110-120 VAC 1.9 A (INPUT) 180-220 VAC 1.1 A (INPUT) 50/60 Hz

Type B Class I

II A

**IP20** 

Approx. 3.9 kg

VapCare MCU (LxWxH) – 321x185x121mm Sensing Unit (LxWxH) – 73x44x27 mm

>90% Full Scale Value

Intermittent Suction Medium Vacuum Equipment

Continuous Operation

Minimum 30 minutes when fully loaded

# **Ordering Information**

VapCare System Catalogue Number:

Vaplumen Catalogue Number:

Collection Container Tubing Catalogue Number:

Ellter Tubine Catalogue Number

F1-01-000-00-000

F1-02-GA0-00-000

F1-02-GC0-00-000

F1-02-GD0-00-000

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