



# VapCare



**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



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 mmHg Operating Mode  
Max -300 mmHg 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 IEC 60601-1

Type B Class I

Risk Classification as per 93/42/EEC, IX

II A

Degree of Protection (IP Code) as per IEC 60529

IP20

Weight

Approx. 3.9 kg

Dimensions (LxWxD) in mm

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

# Ordering Information

VapCare System Catalogue Number:

F1-01-000-00-000

VapLumen Catalogue Number:

F1-02-GA0-00-000

Collection Container Tubing Catalogue Number:

F1-02-GC0-00-000

Filter Tubing Catalogue Number:

F1-02-GD0-00-000

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