


- ⓧ DO NOT use the FLOCAP for the detection of Hypercapnia/Hypercarbia.
 - ⓧ DO NOT use the FLOCAP for the detection of main-stem bronchial intubation.
 - ⓧ DO NOT use the FLOCAP during mouth to tube ventilation.
 - ⓧ DO NOT use the FLOCAP to detect oropharyngeal tube placement.
 - Standard clinical assessment must be used.
 - When low pulmonary perfusion coincides with accidental esophageal intubation, colorimetric CO₂ indication cannot be properly interpreted. However, if proper tube placement is ascertained by independent means, then the FLOCAP may be used to help assess the progress of positive pressure ventilation as evidenced by an increase in end-tidal CO₂.
 - 4 Warnings:**
 - ⓧ DO NOT use if you have blue-yellow color blindness.
 - ⓧ DO NOT use on patients with body weight less than 15kg (33lbs) due to the potential for rebreathing exhaled CO₂.
 - ⓧ DO NOT use the FLOCAP with devices that elevate humidity such as nebulizers or heated humidifiers.
 - ⓧ DO NOT use in the presence of the following agents: atropine, infasurf, naloxone, intratracheal epinephrine, trichloroethylene, chloroform.
 - ⓧ DO NOT use the FLOCAP for a duration of more than 24 hours.
 - For use with air and oxygen only; chemical interactions will affect device accuracy.
 - Read the entire contents of this operating manual before using the FLOCAP.
 - Periodic color changes reflect the breathing pattern of the patient. However, a permanent purple to purple-beige color indicates a lack of exhaled carbon dioxide, the cause of which requires immediate attention. If the purple-beige color does not appear during a breathing cycle, this may indicate a significant degree of carbon dioxide rebreathing and should also be of immediate concern.
 - 5 Cautions:**

2.0 INSTRUCTIONS FOR USE:

1. To open the pouch, remove and inspect the FLOCAP. Ensure the element inside the housing is still purple. If its color looks to be closer to beige the device should be discarded. Some yellowing around the edge is permissible.
 2. To connect: Attach the FLOCAP securely between the ventilation source and the mask or endotracheal tube, by pushing together and rotating slightly, as illustrated here:
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- For CO₂ Detection: Ventilate the patient with 6 complete breaths. At the end of the 6 breath cycles, check the color of the FLOCAP indicator.
- If the color of the indicator is yellow, continue to ventilate the patient and

- If the color of the indicator is yellow, continue to ventilate the patient and monitor clinical cues for adequate ventilation.
- If the color of the indicator is beige, continue to ventilate with 6 additional breaths and recheck. If the color has not moved towards yellow, this indicates insufficient exhaled CO₂. **This requires immediate attention.** Employ your institution's protocol to verify proper tube placement and adequate gas exchange.

- If the color remains purple, the patient may not have a patent airway or the endotracheal tube may not be positioned correctly. **This requires immediate action.** Employ your institution's protocol to verify proper tube placement and adequate gas exchange.
- Continue to monitor the color of the CO₂ indicator throughout the entire time the device is in use.

- Do not exceed 24 hours of use.
- During the course of ventilation, if the FLOCAP returns to and remains purple or beige colored, this indicates insufficient exhaled CO₂. **This requires immediate attention.**
- 4. For Exhalation Monitoring: Monitor the rate at which the flow indicator rotates during exhalation. Visually observe the patient's exhalation and detect when exhalation is complete. The FLOCAP is not intended to be a quantitative indicator. Follow your institution's guidelines for breath frequency and tidal volume during resuscitation and for avoiding auto-PEEP during resuscitation. At the end of exhalation, the flow indicator's momentum will cause it to spin briefly after exhalation has ceased.

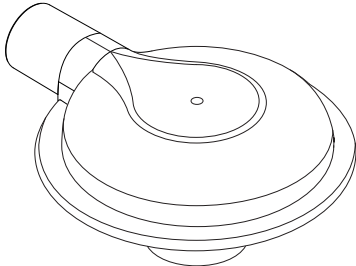
• 3.0 COLOR & FLOW INDICATOR INTERPRETATION:

Note that the detector color will continue to fluctuate from inspiration to expiration for up to twenty-four hours. When the gas contains CO₂ (i.e., expired gas from the patient), the indicator color will change. Following are the color indications of the FloCap indicator device.

Purple (0%)	No carbon dioxide detected
Beige (1-2%)	Exposed to CO ₂ , approx. 1% to 2%
Yellow Beige (2-5%)	At intermediate CO ₂ concentrations of 2%-5%
Yellow (5%)	Exposed to 5% or greater CO ₂
Permanent Yellow	A damaged indicator

- Spinning*.....Patient is exhaling
- Not Spinning.....Exhalation flow < 1 LPM
- *At the end of exhalation, the flow indicator's momentum will cause it to spin briefly after exhalation has ceased

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FLOCAP™

OPERATING MANUAL & INSTRUCTIONS FOR USE

R500P21



1.0 SYSTEM OVERVIEW

1.1 Description:

The FLOCAP is a simple, disposable, single-use CO₂ and flow indication device designed for placement between a breathing device and a patient's endotracheal tube or mask for visualization of exhaled CO₂ and to give a visual indication of the presence of expiratory flow. The CO₂ indicator will assist the caregiver in verifying proper ET tube placement. A lack of color change may indicate improper intubation. Exhaled gas passes through the device and indicates a range of end-tidal CO₂. The flow indicator allows the caregiver to visually detect if the patient is still exhaling.

1.2 Indications for use:

The FLOCAP is used to provide a semi-quantitative visualization of the CO₂ in the patient airway. It is an adjunct in patient assessment, to be used in conjunction with other methods to determine clinical signs and symptoms by or on the order of a physician.

The FLOCAP has a visual indicator to visually detect the end of exhalation.

For use up to 24 hours.

For patients greater than 15 kg (33 lbs.)

Environment of use – hospital, sub-acute, pre-hospital, transport

- 4.0 MECHANICAL SPECIFICATIONS:

Internal Volume:	< 25 ml
Pressure Drop according to ISO 9360-1:	
at 30 LPM	0.7 cmH ₂ O
at 60 LPM	2.7 cmH ₂ O
at 90 LPM	5.7 cmH ₂ O
Leak rate according to ISO 9360-1:	0.0 ml/min
Compliance according to ISO 9360-1:	0.44 ml/kPa
Device Weight:	23 grams
Connector ports according to ISO 5356-1:	
Patient end	15mm I.D./22mm O.D.
Ventilator end	15mm O.D.

5.0 SYMBOL GUIDE:

Federal law (USA) restricts this device to sale on or by the order of a physician	Rx ONLY	Not Manufactured with Natural Rubber Latex		Contains no Polyvinyl Chloride	
Single Use Only		Storage Temperature	 25°C (75°F) 5°C (41°F)	Keep Dry	
Consult instructions for use		Non-sterile		Keep Out of Sunlight	
Manufacturer		DO NOT		Caution	
Made in USA		Authorized Representative			



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