



## The Monaghan Advantage

- ❖ Can use in conjunction with mechanical ventilation, manual resuscitation bag, and standard aerosol resuscitation mask
- ❖ Effective with low tidal volume patients
- ❖ Anti-static dual chamber design
- ❖ Patented exhalation channel has one way valve
- ❖ Accepts standard pMDIs and integrated dose counters
- ❖ Backed by clinical evidence
- ❖ Not made or manufactured with BPA, natural rubber latex, phthalates, lead, or PVC
- ❖ Designed and manufactured in North America

## AEROCHAMBER MINI™ HC

The AEROCHAMBER MINI™ Holding Chamber (HC) is a unique device designed to deliver pMDI aerosols to patients in conjunction with mechanical ventilation, manual resuscitation bag, and standard aerosol resuscitation mask. Comprised of an anti-static dual chamber, the patented exhalation channel has a one way valve that preserves aerosol dose and minimizes dead space.

The AEROCHAMBER MINI™ HC accepts standard pMDIs as well as those with integrated dose counters. It is a 110cc ergonomically correct chamber that connects easily to an endotracheal tube in front of a wye or HME in a ventilator circuit. It can be used with a standard aerosol resuscitation mask and is effective for use with low tidal volume patients.

## THE FACTS

**Designed with the patient in mind, the AeroDock™ canister port assures the AeroChamber mini™ HC acceptance of standard pMDIs as well as those with integrated dose counters. The counters activate with the AeroDock™ feature.**

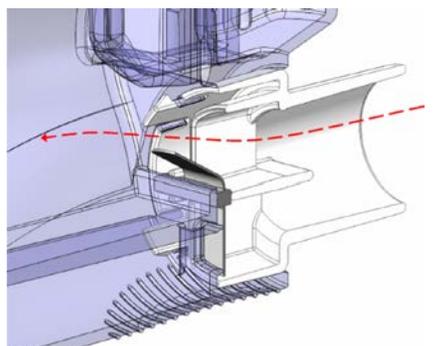
**The AeroChamber mini™ HC is a 110cc ergonomically correct chamber that fits comfortably in your hand. It can be easily connected to the endotracheal tube in front of a wye or HME in a ventilator circuit. While in a ventilator circuit it is designed to maintain positive end expiratory pressure (PEEP). It can be used with a standard aerosol resuscitation mask and is effective for use with low tidal volume patients.**

ACCEPTS  
STANDARD  
pMDIs AND  
THOSE WITH  
INTEGRATED  
COUNTERS

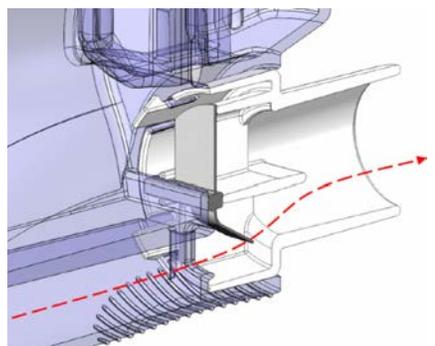


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Inspiratory valve



Expiratory valve

#### REFERENCES

1. DiBlasi R, Coppolo DP, Nagel MW, Doyle CC, Avvakoumova VA, Ali RS, Mitchell JP. A novel valved holding chamber for delivering inhaled medications to neonates and small children: Laboratory simulation of delivery options. *Resp Care* 2010 April;55(4)

The AeroChamber mini™ HC was successfully tested using pre-term infants, infants and small child breathing patterns each with three common delivery methods.

2. Nagel M, Foley M, Mitchell JP, Ali R, MacKay H, Coppolo D. In vitro evaluation of a novel aerosol chamber for delivery of aerosolized medication to the mechanically ventilated premature infant. Poster presented at ERS Annual Congress 2009.

Using pediatric ventilator settings the AeroChamber mini™ HC delivered significantly more ( $8.8\mu\text{g} \pm 3.1\mu\text{g}/\text{actuation}$ ) medication as related to Ace<sup>†</sup> ( $4.5\mu\text{g} \pm 2.2\mu\text{g}/\text{actuation}$ ). Unpaired t-test,  $p < 0.001$ .

3. Coppolo DP, Mitchell JP, MacKay HA, Avvakoumova VA, Nagel MW. A novel spacer for in-ventilator circuit use provides efficient medication delivery from pressurized metered dose inhalers (pMDI). Poster presented at ATS 2009.

The AeroChamber mini™ HC was studied with three HFA formulations: Ventolin<sup>†</sup> (albuterol), Flovent<sup>†</sup>-50 (fluticasone propionate) and Atrovent<sup>†</sup> (ipratropium bromide).

Fine particle mass of  $4.7\mu\text{m}$  from the AeroChamber mini™ HC was substantially equivalent of fine particle mass  $4.7\mu\text{m}$  emitted by the pMDI alone.

## ORDERING INFORMATION

PART #	NAME/DESCRIPTION	UNITS PER CASE
98810	AEROCHAMBER MINI™ Holding Chamber (HC)	cs/10

Contact your Monaghan Sales Territory Manager for more information or a demonstration.



REGISTERED  
ISO 13485  
QUALITY SYSTEM