



**Interim Guidance for Emergency Medical Services (EMS) Systems and 911 Public Safety Answering Points (PSAPs) for COVID-19 in the United States**

**Precautions for Aerosol-Generating Procedures\***

EMS and hospital personnel should exercise caution if an aerosol-generating procedure is being performed. For example: bag valve mask (BVM) ventilation, oropharyngeal suctioning, endotracheal intubation, nebulizer treatment, continuous positive airway pressure (CPAP), bi-phasic positive airway pressure (biPAP), or resuscitation involving emergency intubation or cardiopulmonary resuscitation (CPR) is necessary.

- BVMs, and other ventilator equipment, should be equipped with HEPA filtration to filter expired air.
- EMS organizations should consult their ventilator equipment manufacturer to confirm appropriate filtration capability and the effect of filtration on positive-pressure ventilation.

**\*CAUTION! Always check for the latest update at:**  
<https://www.cdc.gov/coronavirus/2019-ncov/hcp/guidance-for-ems.html>





Breathing Filter

**BACTERIAL / VIRAL FILTER**

LATEX FREE | SINGLE PATIENT USE | DISPOSABLE

- Help reduce the transmission of microbes and other particulate matter in the breathing system
- Filters up to 99.99% of expiratory bacterial/viral content
- Designed to reduce drag on the breathing system while ensuring patient comfort
- Available in a variety of sizes and shapes
- Compatible with leading breathing systems
- Packaged (50 EA/CS)



BACTERIAL / VIRAL FILTER				 <b>HEPA</b>
ITEM	BF102	BF103	FH603003	FH603026
DESCRIPTION	Accepts 19 mm or 30 mm	Accepts 19 mm or 30 mm	Vt Range >250 mL	Tidal Volume >150 mL
B/V EFFICIENCY	>99.99%	>99.99%	>99.99%	>99.9999%
WEIGHT (g)	11.8	12.4	25.0/25.7	40.6
ID / OD (mm)	19 ID x 22 ID / 30 OD	30 ID x 22 ID / 30 OD	22 ID x 15 ID / 22 OD	22 ID x 15 ID / 22 OD
DEAD SPACE (mL)	20	29	34	52
RESISTANCE (cm H <sub>2</sub> O) 30 LPM	<2.2	<2	<1 (<2 @60 LPM)	<1.55
SAMPLING PORT	No	No	No	No

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# HYDROSCOPIC CONDENSER HUMIDIFIER WITH FILTER (HCHF/HMEF)

LATEX FREE | SINGLE PATIENT USE | DISPOSABLE

Hygroscopic condenser humidifiers (also called heat and moisture exchangers - HME) effectively provide heat and moisture delivery/recovery for ventilated and spontaneously breathing patients. Available in a variety of sizes and shapes, HCHFs are compatible with leading breathing systems and come with filtration material.

- Effectively provides heat and moisture delivery/recovery for ventilated and spontaneously breathing patients
- **Filters up to 99.99% of expiratory bacterial/viral content**
- Designed with sampling port (unless indicated)
- Available in a variety of shapes and sizes
- Compatible with leading breathing systems
- Packaged (50 EA/CS)



HYGROSCOPIC CONDENSER HUMIDIFIER + FILTER (HCHF) HEAT MOISTURE EXCHANGER + FILTER (HMEF)						
ITEM#	FH603008 / FH603005 Port / No Port	FH603009	FH603011	FH603013	FH603020 / FH603022 Port / No Port	FH603027
DESCRIPTION	Round, Large	Swivel	Rectangular	Angled, Small	Straight, Small	Straight, Pediatric
VT RANGE (mL)	250 - 1500	250 - 1500	200 - 1500	150 - 1000	150 - 1000	250
MOISTURE OUTPUT (mg H <sub>2</sub> O/L) ±0.1g	34.1	36	32.5	33.4	33.6	34.0
WEIGHT (g)	18.5	38.3	37.2	17.2	15.0	13.6
ID / OD (mm)	22 ID x 22 OD / 15 ID	15 ID x 22 OD / 15 ID	22 ID x 22 OD / 15 ID	22 ID x 22 OD / 15 ID	22 ID x 22 OD / 15 ID	22 ID x 22 OD / 15 ID
DEAD SPACE (mL)	40.7	74	62	33.7	31.3	20.5
RESISTANCE (cm H <sub>2</sub> O) 30 lpm	0.8	<2	<1	1.9	2.1	2.4
B/V EFFICIENCY	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%