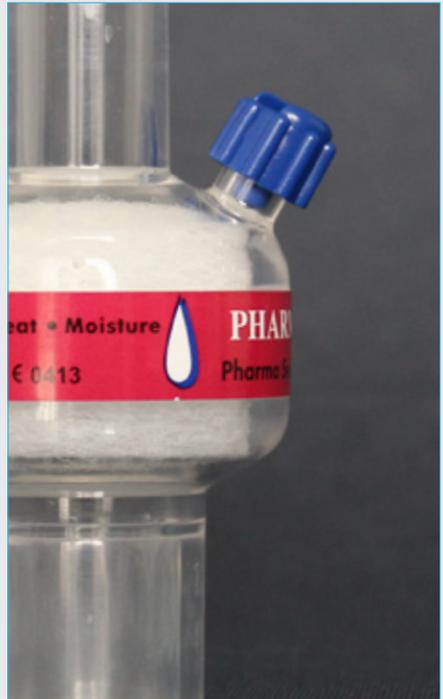


WHEN EVERY BREATH COUNTS



CAREguardpro™ heat and moisture exchangers with bacterial/viral filters for superior patient comfort and infection prevention.

Your Exclusive Partner for Innovative Solutions

We are committed to representing the best anesthesia and respiratory products that the world has to offer.

That's why we've partnered with Pharma Systems to offer an extensive line of **humidification and filtration products** for every patient need.



CAREguardpro™ HCHs (hygroscopic condenser humidifiers) offer the **highest moisture return** from the very first breath. Adult to neonate, short term to long term, our portfolio includes a variety of solutions. Including products that allow in-line nebulization without taking the device out of line. No twisting or turning of the device is needed.

SEE FOR YOURSELF | REQUEST A DEMO



Pharma Systems High Quality Products

Manufactured in Sweden, Pharma Systems has provided breathing comfort safety systems for decades. Pharma Systems HCHs and Filters offer:

- the highest moisture return with a low resistance for clinical consistency equal to heated water systems
- protection against bacterial and viral contamination
- high efficiency solution made from high tech fiber

“World class performance in breathing comfort safety systems.”





Bact-HME Filter

Maintains sputum consistency and provides therapeutic humidification in a filtered device. Zero ET tube occlusions reported.

Order Notes:

#6000 Bact-HME Filter w/ HCH
Available in cases of: 25/50/100/250



Bact-HME Filter Special

This special version ("H") provides a collection chamber to help guard against increasing resistance due to secretions. Zero ET tube occlusions reported.

Order Notes:

#6000H Bact-HME Special
Available in cases of: 25/50/100/250

Specifications at High V_E

Moisture Returned: 32.5 mg @ 1L V_E & 32.9 mg @ .5L V_E	Tidal Volume Range: 150 - 1500 ml
Resistance: @ 60 LPM - 2.0 & 2.3 cm (port)	Bacterial/Viral Efficiency: > 99.99%
Dead Space: 75 ml	TB Filtration Efficiency: > 99.99%
Weight: 34 g	Housing: Clear

Bact-Trap™

Maintains sputum consistency and provides therapeutic humidification in a filtered device. Zero ET tube occlusions reported.

Order Notes:

#7010 Bact-Trap Filter w/ HCH
Available in cases of: 25/50/100/250



Specifications at High V_E

Resistance: @ 60 LPM - 1.5 cm (basic)	Tidal Volume Range: 150 - 1500 ml
Dead Space: 76 ml	Bacterial/Viral Efficiency: > 99.99%
Weight: 32 g	TB Filtration Efficiency: > 99.99%

Bact-HME MIDI HCH with Filter



The MIDI version provides therapeutic humidification in a medium sized device.

Also available in a special "H" version with a collection chamber to help guard against increasing resistance due to secretions. Zero ET tube occlusions reported.

Order Notes:

#6310 Bact-HME MIDI w/ ETCO₂ Port
#6310H Bact-HME MIDI Special w/ ETCO₂ Port
Available in cases of: 50/100/250

Specifications at High V_E

Moisture Returned: 32 mg @ 500 ml V_E	Tidal Volume Range: 100 - 1200 ml
Resistance: @ 30 LPM - 1.3 cm	Bacterial/Viral Efficiency: > 99.99%
Dead Space: 49 ml	TB Filtration Efficiency: > 99.99%
Weight: 29 g	Housing: Clear

Pharma Mini HCH with Filter



Maintains sputum consistency and provides therapeutic humidification in a filtered device. Zero ET tube occlusions reported.

Order Notes:

#6100 Pharma Mini Filter HCH
#6121 Pharma Mini Filter HCH w/ ETCO₂ Port
Available in cases of: 50/100/250/500

Specifications at High V_E

Moisture Returned: 31.8 mg @ 250 ml V_E	Tidal Volume Range: 50 - 900 ml
Resistance: @ 20 LPM - 1.4 cm	Bacterial/Viral Efficiency: > 99.99%
Dead Space: 26 ml	TB Filtration Efficiency: > 99.99%
Weight: 15 g	Housing: Clear



HME 12 (No Filter)

Therapeutic humidification in an economically priced HCH. Useful when a filter is not needed.

When nebulizing directly through HME 12, the moderate reduction in aerosol delivery shows no significant increase in Raw.

May provide a reasonable HME with each aerosol administration. (*MIDI not tested for aerosol delivery.*)

Order Notes:

#6070 HME 12 HCH	MIDI Size (<i>not pictured</i>)
#6072 HME 12 HCH w/ ETCO ₂ Port	#6305 HME MIDI 11 w/ ETCO ₂ Port
Available in cases of: 25/50/100/250	Available in cases of: 25/50/100/250

Specifications at High V_E

Moisture Returned H ₂ O/L: 33 mg @ VT 500 ml	Tidal Volume Range: 150 - 1500 ml
Resistance: @ 60 LPM - 0.96 cm (port)	Weight: 32 g
Dead Space: 86 ml	Housing: Clear



HME 10 HCH (No Filter)

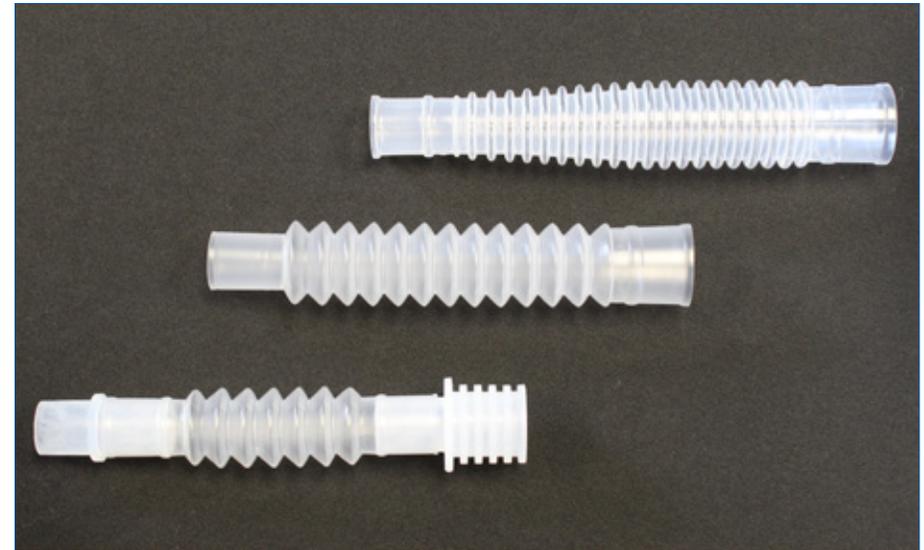
The small size and low profile are excellent for pediatric and adult patients. Economically priced, and useful when a filter is not needed.

Order Notes:

#6060 HME 10 HCH
 #6160 HME 10 HCH w/ ETCO₂ Port
 Available in cases of: 50/100/250/500

Specifications at High V_E

Moisture Returned H ₂ O/L: 29 mg @ VT 250 ml	Tidal Volume Range: 50 - 900 ml
Resistance: @ 30 LPM - 0.7 cm	Weight: 13 g
Dead Space: 26 ml	Housing: Clear



Taper Drape Tube

6" Taper Drape Tube with 15 and 22 mm connectors.
Top tube pictured above.

Poppel Taper Tube

Adjustable length up to 5.5" with 15 and 22 mm connectors.
Middle tube pictured above.

Poppel Flex Tube

Adjustable length up to 5.5" with rigid 15 and 22 mm connectors.
Bottom tube pictured above.

Order Notes:

#5010T	Taper Drape Flex Tube	100/case
#5010F	Poppel Flex Tube	100/case
#5010P	Poppel Taper Tube	100/case

TIP | To package a Tube with an HME or Filter, just add the affiliated Tube letter (T, F or P) to the product code. Only in cases of 50.

TRACHEOSTOMY HUMIDIFICATION

Pharma Trach HCH

Available in either a **BASIC** or **CRV (cough relief valve) trach**. The CRV may be used for suctioning without removing the device, and features an optional integrated O₂ adapter for supplemental O₂ delivery. The HCH material is non-absorbing, helping to eliminate resistance. These are designed for spontaneously breathing patients through a tracheotomy tube.



Order Notes:

#6240	Pharma Trach Basic	#6258	Pharma Trach Basic O ₂ Adapter
#6241	Pharma Trach CRV w/ O ₂ Port	Available in cases of: 25/50/100/250/500	
#6242	Pharma Trach CRV	Available in cases of: 30/300	

Neo HCH

In transport provides moisture for patients who need it the most. Unexcelled low resistance to flow, critical in the treatment of special care babies. Non-absorbing HCH material reduces resistance problems.



Order Notes:

#6215	Pharma Neo
#6220	Pharma Neo w/ ETCO ₂ Port
Available in cases of: 25/50/100/250/500	

Specifications

Moisture Return H ₂ O/L: 32.5 mg @ VT 20 ml 31 mg @ VT 25 ml	Tidal Volume Range: 10 - 50 ml
Resistance: @ 7.5 LPM - 1 cm	Dead Space: 4 ml
Weight: 3 g	

ANESTHESIA FILTERS WITH HCH

Pharma Mini HCH & Filter

Protects patients and anesthesia equipment from cross contamination. The three main components of Pharma Mini are manufactured as one unit, using an exclusive sure-fit system to eliminate fail points.

Monitoring CO₂ on the device protects CO₂ lines from contamination.



Order Notes:

#6126 Pharma Mini Straight Filter, HCH, ETCO₂ Port & Elbow
Available in cases of: 50/100/250/500

TIP | Package with a Mask by adding and "M" and the size to the product code. See page 9.

Pharma Mini Angle HCH & Filter

Protects patients and anesthesia equipment from cross contamination. The three main components of Pharma Mini are manufactured as one unit, using an exclusive sure-fit system to eliminate fail points. The angle device replaces a need for an elbow.

Monitoring CO₂ on the device protects CO₂ lines from contamination.



Order Notes:

#6130 Pharma Mini Right Angle Filter, HCH & ETCO₂ Port
Available in cases of: 50/100/250/500

Specifications

Moisture Return H ₂ O/L: 31.8 mg @ VT 250 ml	Tidal Volume Range: 50 - 900 ml
Resistance: @ 30 LPM - 1.2 cm	Bacterial/Viral Efficiency: > 99.99%
Dead Space: 23 ml (angle w/ port)	TB Filtration Efficiency: > 99.99%
Weight: 15 g	Housing: Clear

ANESTHESIA FILTERS



Bact-Trap™ Mini Filter Only

Protects patients and anesthesia equipment from cross contamination. The three main components of Bact-Trap™ Mini are manufactured as one unit, using an exclusive sure-fit system to eliminate fail points. Elbow included in packaging.

Monitoring CO₂ on the device protects CO₂ lines from contamination.

Order Notes:

- #7056 Pharma Mini Straight Filter, HCH, ETCO₂ Port & Elbow
 - #7055 Pharma Mini Straight Filter, HCH, ETCO₂ Port
- Available in cases of: 50/100/250/500



Bact-Trap™ Mini Angle & Filter

Protects patients and anesthesia equipment from cross contamination. The three main components of Bact-Trap™ Mini are manufactured as one unit, using an exclusive sure-fit system to eliminate fail points. The angle device replaces a need for an elbow.

Monitoring CO₂ on the device protects CO₂ lines from contamination.

Order Notes:

- #7061 Bact-Trap™ Mini Angle Filter Only, ETCO₂ Port
- Available in cases of: 50/100/250/500

Specifications	
Resistance: @ 20 LPM - 0.9 cm	Tidal Volume Range: 50 - 900 ml
Dead Space: 23 ml	Bacterial/Viral Efficiency: > 99.99%
Weight: 13 g	TB Filtration Efficiency: > 99.99%
Housing: Clear	

ANESTHESIA MASKS



Soft Air Cushion Face Masks with Inflation Valve

May be packaged with Bact-Trap™ Mini and Pharma Mini for your convenience.

To add a mask to either order, add the letter "M" and the size of mask "4" or "5" to the HME/Filter code. Only available in cases of 50.

Face Mks with Inflation Valve		
5001	50/case	Cushion Mask Size 1
5002	50/case	Cushion Mask Size 2
5003	50/case	Cushion Mask Size 3
5004	50/case	Cushion Mask Size 4
5005	50/case	Cushion Mask Size 5
7056M5	50/case	Example combo order with Size 5 Mask

ANESTHESIA CIRCUITS

Our anesthesia circuits are available without ports, elbows and filters. They are packaged with the wye piece, attached tubes with cuff adapters, and choice of various sized latex free re-breathing bag.



Expandable Circuits		
X40LF2	30/case	40" Flex, 2L latex free
X40LF3	30/case	40" Flex, 3L latex free
X72LF2	30/case	72" Flex, 2L latex free
X72LF3	30/case	72" Flex, 3L latex free
X96LF2	30/case	96" Flex, 2L latex free
X96LF3	30/case	96" Flex, 3L latex free

For more info about CAREguardpro™
visit our website or connect with
us for a quote/samples.



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