

WHEN EVERY BREATH COUNTS



Heat and moisture exchangers and bacterial/viral filters for 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.



Pharma Systems HCHs (hygroscopic condensing humidifier) 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 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 | 40/case |
| #6001 | Bact-HME Filter w/ HCH EcoPak | 100/case |
| #6001V | Bact-HME Filter w/ HCH VolumePak | 200/case |



Bact-HME Filter Special

The Special, or "S", version provides a collection chamber to help guard against increasing resistance due to secretions. Zero ET tube occlusions reported.

Order Notes:

| | | |
|---------|----------------------------|----------|
| #6000S | Bact-HME Special | 40/case |
| #6001S | Bact-HME Special EcoPak | 100/case |
| #6001SV | Bact-HME Special VolumePak | 200/case |

| Specifications at High V_E | |
|------------------------------|--|
| Moisture Returned H_2O/L | 32.5 mg @ 1L V_E & 32.9 mg @ .5L V_E |
| Resistance | @ 60 LPM - 2.0 cm & 2.3 (port) |
| Dead Space | 75 ml |
| Weight | 34 g |
| Housing | Clear |
| Tidal Volume Range | 150 - 1500 ml |
| Bacterial/Viral Efficiency | > 99.99% |
| 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 an "S" 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/ ETCO ₂ Port | 40/case |
| #6310E | Bact-HME MIDI w/ ETCO ₂ Port | 100/case |
| #6310S | Bact-HME MIDI Special w/ ETCO ₂ Port | 40/case |
| #6310E | Bact-HME MIDI Special w/ ETCO ₂ Port | 100/case |

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 | 50/case |
| #6101 | Pharma Mini Filter HCH EcoPak | 100/case |
| #6120 | Pharma Mini Filter HCH w/ ETCO ₂ Port | 50/case |
| #6121 | Pharma Mini Filter HCH w/ ETCO ₂ Port | 100/case |

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 | 40/case | MIDI Size (not pictured) |
| #6071 | HME 12 HCH EcoPak | 100/case | #6305 HME MIDI 11 w/ ETCO ₂ Port 50/case |
| #6072 | HME 12 HCH w/ ETCO ₂ Port | 40/case | #6072 HME MIDI 11 w/ ETCO ₂ Port 100/case |
| #6073 | HME 12 HCH w/ ETCO ₂ Port | 100/case | |

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 | 50/case | |
| #6061 | HME 10 HCH | 100/case | |
| #6160 | HME 10 HCH w/ ETCO ₂ Port | 50/case | |
| #6161 | HME 10 HCH w/ ETCO ₂ Port | 100/case | |

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 Flex Tube*

6" Taper is available in:

- 15 mm
- 22 mm

*Top tube pictured above

Poppel Flex Tube

5.5" Poppel is available in:

- 15 mm
- 22 mm

| Order Notes: | | | |
|--------------|-----------------------|----------|--|
| #5010T | Taper Drape Flex Tube | 100/case | |
| #5010P | Poppel Flex Tube | 100/case | |

TIP | To add a Taper Drape Flex Tube packaged with Bact-HME, add the letter "T" to the order number.

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 | 30/case |
| #6240E Pharma Trach Basic EcoPak | 240/case (packed 8 bags of 30 each) |
| #6258 Pharma Trach Basic O ₂ Adapter | 25/case |
| #6241 Pharma Trach CRV w/ O ₂ Port | 30/case |
| #6241E Pharma Trach CRV w/ O ₂ Port | 240/case (packed 8 bags of 30 each) |
| #6242 Pharma Trach CRV | 30/case |
| #6242E Pharma Trach CRV | 240/case (packed 8 bags of 30 each) |

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 | 100/case |
| #6220 Pharma Neo w/ ETCO ₂ Port | 100/case |

| 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, ETCO ₂ Port & Elbow | 100/case |

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 & ETCO ₂ Port | 50/case |
| #6131 Pharma Mini Right Angle Filter, HCH & ETCO ₂ Port | 100/case |

| 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 100/case



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 100/case

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 | |



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 Bact-Trap™ Mini add the letter "M" and the size of mask "4" or "5". Cases are still 50 each.

| Face Masks 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 | Add Mask |

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.



ANESTHESIA CIRCUITS

| 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 information visit our website,
or connect with us for a quote.



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