



PRODUCT CATALOGUE



Official representative of:

HAMILTON
MEDICAL

Intelligent Ventilation since 1983

hümiSeries

hümiFlö™ **hümiOxy**™ **hümiStē**™

DEPOSABLE PROFILABLE BUBBLE HUMIDIFIER OXYGEN FLOWMETER HYGIENIC STETHOSCOPE LAYER



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MEDICAL

Intelligent Ventilation since 1983



Hamilton Medical Ventilation Range

HAMILTON·S1

ADVANCE HIGH END INTENSIVE CARE VENTILATOR

The world's first ventilation Autopilot

- Automated control of the patient's ventilation and oxygenation with INTELLiVENT-ASV.
- Protective ventilation P/V Tool Pro for lung assessment recruitment.
- IntelliCuff® automated cuff pressure controller.
- Transpulmonary pressure measurement.
- Adult, pediatric, and neonatal ventilation
- Integrated high flow nasal oxygen therapy..



HAMILTON·G5

HIGH END INTENSIVE CARE VENTILATOR

The modular high-end ventilation solution

- Advanced ventilation modes including ASV®.
- Protective Ventilation P/V Tool for lung assessment and recruitment.
- Transpulmonary pressure measurement.
- Adult, pediatric, and neonatal ventilation.



HAMILTON·T1

MOBILE/TRANSPORT INTENSIVE CARE
VENTILATOR

Intelligent transport ventilation

- Performance of a fully featured ICU ventilator.
- Adult, pediatric, neonatal ventilation.
- Certified for ambulances, helicopters, and airplanes.
- Independent air supply.
- 9h of battery operating time.
- Advanced ventilation modes including ASV®.



HAMILTON·C3

HIGH END VENTILATOR WITH TURBINE

The compact-high end ventilation solution

- Advanced monitoring with the Ventilation Cockpit.
- Advanced ventilation modes including ASV®.
- Adult, pediatric, and neonatal ventilation.
- High-performance NIV ventilation.
- Automated lung recruitment maneuver(P/V tool pro)



HAMILTON·C2

HIGH END VENTILATOR WITH TURBINE

The universal ventilation solution

- Adult, pediatric, and neonatal ventilation.
- 6h of battery operating time.
- Independent air supply.
- A dvanced ventilation modes including ASV .
- High-performance NIV ventilation.



HAMILTON·C1

INTENSIVE CARE VENTILATOR, NIPPV/PORTABLE

Minimum size for maximum performance

- Adult, pediatric, and neonatal ventilation.
- 4h of battery operating time.
- Independence from gas cylinders or compressors.
- Outstanding value for money.



HAMILTON·MR1

INTENSIVE CARE VENTILATOR FOR MRI

Intelligent Ventilation from ICU to MRI

- MR conditional (up to 50 mT).
- Integrated TeslaSpy gaussmeter.
- Adult, pediatric, and neonatal ventilation.
- 9h of battery operating time.
- Independent air supply.
- Advanced ventilation modes including ASV®.

HAMILTON·H900

HIGH END HUMIDIFICATION CHAMBER

- Integrated temperature probe.
- Wall-heated, all-in-one breathing circuit.
- Adjustable temperature and humidity settings.
- Remote control from any compatible ventilator.
- Pre-assemble and ready to use.



IntelliCuff®

PORTABLE CUFF PRESURE CONTROLLER
FOR ENDO TRACHEAL TUBE/RACHE TUBE

- Automated measurement and adjustment of cuff pressure.
- Reduce risk of ventilator associated pneumonia (VAP) and tracheal injuries.
- Easy and intuitive operation.
- For critical care, interhospital transport, and anesthesia.



The Right Ventilation Solution for Any Situation



Hamilton Medical
Intelligent Ventilation since 1983



HAMILTON
MEDICAL
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hümiSeries

hümiFlö™
DISPOSABLE PREFILLED BUBBLE HUMIDIFIER

hümiOxy™
OXYGEN FLOWMETER

hümiStë™
HYGENIC STETHOSCOPE LAYER

HumiSeries Product Ranges



CDH 350



CDH 500mls

SINGLE USE PREFILLED BUBBLE HUMIDIFIER - CDH 350 AND CDH 500mls FOR LOW FLOW MANAGEMENT

hümiFlö™ CDH 300
CDH 500mls

DISPOSABLE PREFILLED BUBBLE HUMIDIFIER

Usage : Passive humidification for oxygen therapy

CERTIFICATE : CE & ISO 13485

Material: SM 198

- Bottle : Polypropylene (PP).
- Adaptor : Acrylonitrile Butadiene Styrene (ABS).
- Filling : Sterile water of inhalation. Complies to United States Pharmacopoeia (USP) for bodily safe and effective humidity for inhalation of dry medical oxygen.

FOR SAFETY PRECAUTION, PLEASE REFER CDH 500 OR 700

Dimension of Product : W 95, D 85, H 160

Oxygen pressure (range) : As low as 0.5 bar (@5LPM)

Filling water volume : Approximately 350ml for CDH 350

Filling water volume : Approximately 500ml for CDH 500mls

Expiry Date : 5 years after the manufacturing date.

Packaging : Box of 25

Dimension and Flow Rate

For CDH 350 - without water : 35g
- with water : 390g

Flow rate : - For CDH 500mls
- 0-15 LPM for oxygen supply tube

For CDH 500mls - without water : 35g
- with water : 450g

Flow rate : - low flow only and to be use
below 5 LPM only

SINGLE USE PREFILLED BUBBLE HUMIDIFIER - CDH 500 FOR HIGH FLOW MANAGEMENT

hümiFlö™ CDH 500

DISPOSABLE PREFILLED BUBBLE HUMIDIFIER

Usage : Passive humidification for oxygen therapy

CERTIFICATE : CE & ISO 13485

Material: SM 198

- Bottle : Polypropylene (PP).
- Adaptor : Acrylonitrile Butadiene Styrene (ABS).
- Filling : Sterile water of inhalation. Complies to United States Pharmacopoeia (USP) for bodily safe and effective humidity for inhalation of dry medical oxygen.

Safety Precaution :

- Not for enjection and parenteral use.
- Do not use if seal is tempered.
- Discard unused portion.
- Do not puncture bottle.
- Ensure nozzle tap is removed before connecting to the oxygen supply.
- Ensure oxygen supply adaptor is cleaned.

Dimension of Product : W 100, D 110, H 220

Weight : 75g without water and 530g with water

Flow rate : 0-15 LPM for oxygen supply tube.
: 15-60 for breathing circuit.

Oxygen pressure (range) : As low as 0.5 bar (@5LPM)

Filling water volume : Approximately 500ml

Expiry Date : 5 years after the manufacturing date.

Packaging : Box of 20





SINGLE USE PREFILLED BUBBLE HUMIDIFIER - CDH 700 FOR HIGH FLOW MANAGEMENT

hümiFlö™ CDH 700

DISPOSABLE PREFILLED BUBBLE HUMIDIFIER

Usage : Passive humidification for oxygen therapy

CERTIFICATE : CE & ISO 13485

Material: SM 198

- Bottle : Polypropylene (PP).
- Adaptor : Acrylonitrile Butadiene Styrene (ABS).
- Filling : Sterile water of inhalation. Complies to United States Pharmacopoeia (USP) for bodily safe and effective humidity for inhalation of dry medical oxygen.

Safety Precaution :

- Not for enjection and parenteral use.
- Do not use if seal is tempered.
- Discard unused portion.
- Do not puncture bottle.
- Ensure nozzle tap is removed before connecting to the oxygen supply.
- Ensure oxygen supply adaptor is cleaned.

Dimension of Product : W 100, D 110, H 220

Weight : 75g without water and 750g with water

Flow rate : 0-15 LPM for oxygen supply tube.
: 15-60 for breathing circuit.

Oxygen pressure (range) : As low as 0.5 bar (@5LPM)

Filling water volume : Approximately 700ml

Expiry Date : 5 years after the manufacturing date.

Packaging : Box of 20



OXYGEN FLOWMETER

hümiOxy™

OXYGEN FLOWMETER

Feature:

- Polycarbonate crack resistant tube with pure bass chrome body.
- Interchangeable 90 degree/ 180 degree.
- Medical standart compliances with accuracy within +10%.
- Each inlet undergoes rigid and rigourous quality standart and pressure test up to 50psi before shipment.
- GMP, ISO13485 & CE certificates.
- Available in single and twin.

Constant Type Flowmeter :

- Flow rates remains accurate despite tested at various inlet pressure.
- Flow Rate : 0 - 15 lpm.
- Flexible and interchangeable with various types of inlet adaptors.

SINGLE USE HYGENIC STETHOSCOPE LAYER - HSL045

hümiStë™

HYGENIC STETHOSCOPE LAYER

Benefits:

- Does not interfere with stethoscope acoustics.
- Avoid cross contact among patients.
- Easy to use, cost effective, practical, and time saving.
- Latex free, single use medical grade membrane.
- Reduce cold sensation produced by the stethoscope metal surface.
- Prevents reactions/allergies between disinfectant and patient.



VENTILATOR CONSUMABLE



Ventilator Consumable Product Range



PRODUCT ID : PN 281637

FLOW SENSOR, INTERFACE

Packaging : Box of 10

Description :

- Disposable
- Paediatric & Adult
- Angled-connection design
- Universal connector on patient side



PRODUCT ID : PN 260177

FLOW SENSOR, INTERFACE

Packaging : Box of 10

Description :

- Disposable
- Neonate & Infant
- Including calibration adaptor



PRODUCT ID : PN 950185

FLOW SENSOR, INTERFACE

Packaging : Box of 1

Description :

- Autoclavable
- Paediatric & Adult
- Including calibration adaptor



PRODUCT ID : PN 260207

BREATHING CIRCUIT SET, PREASSAMBLE

Packaging : Box of 20

Description :

- Disposable
- Coaxial circuits 1.8m
- Expendable expiratory limb
- With flow sensor interface



PRODUCT ID : PN 260170

BREATHING CIRCUIT SET, DUAL LIMB

Packaging : Box of 20

Description :

- Disposable
- Neonate & Infant
- Preassembled
- Non-heated
- Including Y-piece, flow sensor calibration adaptor, pressure line with T-piece sensor



PRODUCT ID : PN 282624 (SET)

NIV MASK (NON - VENTED)

Packaging : Box of 1

Description :

- Disposable
- Paediatric and adult
- Blue retaining ring and elbow

Product ID :
(based on size)

PN 282507 (SIZE S)

PN 282506 (SIZE M)

PN 282506 (SIZE L)



PRODUCT ID : based on size
(refer to the table)

NASAL CANNULA

Packaging : Box of 10

Description :

- Disposable
- Paediatric & Adult
- For high flow oxygen therapy
- Circuit length 22cm
- Soft material, especially the prongs
- Highly flexible tube
- Elastic head strap

size	max flow (LPM)	prong diameter (mm)	inter prong diameter (mm)
S	35	4.0	11.8
M	40	5.0	12.4
L	45	6.0	11.1



PRODUCT ID : based on size
(refer to the table)

NFH NASAL PRONG

Packaging : Box of 10

Description :

- Disposable
- Paediatric & Adult
- For high flow oxygen therapy
- Circuit length 20cm
- Swivel connector
- Tube can be attached on both sides of the prong
- Non-elastic head strap

size	max flow (LPM)	prong diameter (mm)	inter prong diameter (mm)	
1	30	3.2	2.4	282521
2	50	4.8	4.2	282522
3	50	5.5	6.5	282523
4	50	6.0	10.0	282524



PRODUCT ID : based on size
(refer to the table)

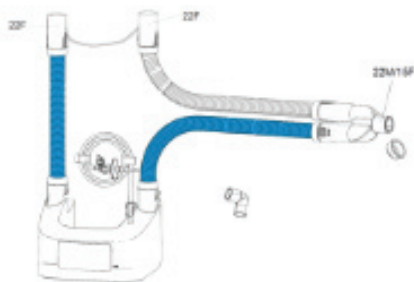
NASAL CANNULA OXYGEN

Packaging : Box of 10

Description :

- Disposable
- Neonate
- Soft Silicone nasal adaptor

size	max flow (LPM)	prong diameter (mm)	inter prong diameter (mm)	
0	4	2.0	5.0	282510
0.5	4	2.2	5.8	282511
1	4	3.0	8.0	282512



PRODUCT ID : based on size
(refer to the table)

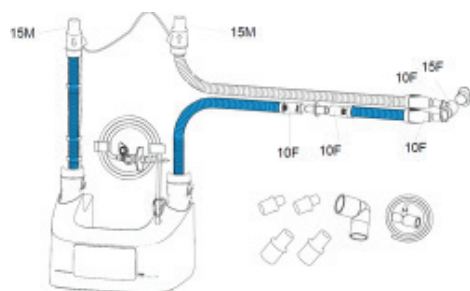
ADULT HEATED BREATHING CIRCUIT

Packaging : Box of 15

Description :

- Disposable
- Paediatric & Adult
- For patients > 10 kg
- Including temperature probe, water chamber and all-in-one connector

Dual limb	HAMILTON - BC8022	260161
Single limb	HAMILTON - BC4022	260186



PRODUCT ID : based on size
(refer to the table)

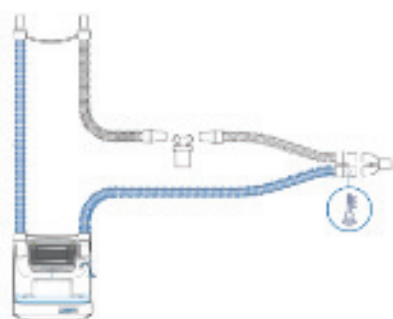
INFANT HEATED BREATHING CIRCUIT

Packaging : Box of 15

Description :

- Disposable
- Infant & Paediatric
- For patients < 15 kg
- Including temperature probe, water chamber and all-in-one connector

Dual limb	HAMILTON - BC8010	260185
Single limb	HAMILTON - BC4010	260187



PRODUCT ID : PN 260188

ADULT HEATED BREATHING CIRCUIT

Packaging : Box of 1

Description :

- Autoclavable
- Double limb
- Paediatric & Adult
- For patients > 10 kg
- Including temperature probe, water chamber and all-in-one connector



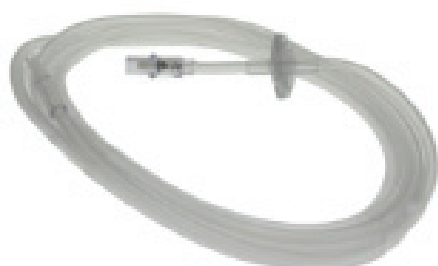
PRODUCT ID : PN 260189

INFANT HEATED BREATHING CIRCUIT

Packaging : Box of 1

Description :

- Autoclavable
- Double limb
- Infant & Paediatric
- For patients < 15 kg
- Including temperature probe, water chamber and all-in-one connector



PRODUCT ID : PN 282016

CUFF PRESURE TUBE

Packaging : Box of 10

Description :

- Disposable
- 200cm
- Neonate, Paediatric & Adult
- With bacterial filter and shut-off valve



PRODUCT ID : SK200CP

HEAT & MOISTURE EXCHANGER WITH FILTER, ADULT

Packaging : Box of 100

Description :

- Paper HME+electrostatic filtration filter, with sampling port
- Recommended T.V. range(ml) : 250-100ml, dead space : 32ml
- Filter efficiency : BFE > 99.99%, VFE > 99.99%, E.T.O Sterile
- Resistance(cmH₂O): [at 30l/min 1.3 ; at 60l/min 3.5 ; at 90l/min 5.2
- Output Tempt @ 2hrs , 10 breaths/minute (ISO 9360) : >29.8MG H₂O/l at T.V 500ml



PRODUCT ID : SK300CP

HEAT & MOISTURE EXCHANGER WITH FILTER, PAIDIATERIC

Packaging : Box of 100

Description :

- Pediatric 8-30kgs, weight 14g; Dead space 13ml
- Recommended T.V. range(ml) : 70-250ml; W/ Samping Port
- Paper HME+electrostatic filtration filter, filter efficiency: BFE>99.99%; VFE>99.99%
- Resistance(cmH₂O): [at 20l/min 1.65; at 30l/min 2.6.]
- Output Moisture & Temp@2hrs, 10 breath/minute (ISO 9360) 32mg / l & 31.6°C at T.V 250ml, E.T.O Sterile



PRODUCT ID : SK302CP

HEAT & MOISTURE EXCHANGER WITH FILTER, TRACHEOSTOMY

Packaging : Box of 100

Description :

- Patient : adult
- Resistance : at 30L/min, at 60L/min, at 90Lmin :
- temp. (ISO9360-1) : Vt 50ml: >29.0°C, Vt 150ml: >29.0°C
Vt 250ml: >29.0°C, Vt 600ml: >29.0°C (w/o oxygen port)
- absolute moisture : (500ml Vt, 20BPM) : 28mg H₂O/L
- dead space : (connectors included-ISO 9360) : 10ml (w/o oxygen port)
- tidal volume : 250 ~ 1500ml
- weight : 12g



PRODUCT ID : SK 203

HEAT & MOISTURE EXCHANGER WITH FILTER, ADULT

Packaging : Box of 100

- Recommended Tidal Volume: 250ml ~ 1500ml
- Temperature (ISO 9360-1) : 32°C
- Absolute Humidity (500ml Vt, 20BPM): 36.8mg H₂O/L
- Dead Space: 45ml
- Bacterial Filtration Efficiency: 99.99977%, Virus Filtration Efficiency: 99.99926%
- Resistance to Flow (ISO 9360-1)
 - 15l/min, 30l/min, 60l/min: < 1.0cm H₂O < 2.5cm H₂O < 3.5cm H₂O
- Filtration Media: Electrostatic
- Sterile: Gamma/E.O Gas



PRODUCT ID : SK 202

SINGLE USE BACTERIA FILTER

Packaging : Box of 100

- Resistance to flow (cm H₂O)
 - at 30L/min:H₂O<0.6cm H₂O
 - at 60L/min:H₂O<1.5cm H₂O
 - at 90L/min:H₂O<3.2cm H₂O
- Dead space (connectors included - ISO 9360): 30ml
- Bacterial filtration efficiency: 99.99977%, Viral filtration efficiency: 99.99926%
- Filtration media: Electrostatic
- Sampling Port: V
- Tidal Volume: 100 ~ 1500ml
- Sterile: Gamma/E.O Gas
- Connector: 22m/15f-22f/15m as ISO5356 and ISO9360



PRODUCT ID : SK 202 N

B/V FILTER WITHOUT SAMPLING PORT LOW RESISTANCE

Packaging : Box of 100

- Resistance to flow (cm H₂O)
 - at @0.5L/s: < 0.7cmH₂O/L/s
- Dead space (connectors included - ISO 9360-1) 68ml
- Male connector: 15 mm I.D/22 mm O.D
- Female connector: 22 mm I.D
- Bacterial filtration efficiency 99.99674%
- Viral filtration efficiency 99.99362%
- Filtration media : Electrostatic.
- Tidal Volume: 150-1500ml
- Sterile E.O Gas



PRODUCT ID : SK20FT01

CATHETER MOUNT

Packaging : Box of 100

Description :

- Catheter mount for ventilation circuit connection
- Collapsible tube with double swivel elbow connector
- Disposable
- With sampling port



PRODUCT ID : A150LS/A200LS

DOUBLE LIMB ANAESTHESIA BREATHING CIRCUIT

Packaging : Box of 30

Description :

- Elbow 1pc, w/o sampling port
- Wye x 1pc, w/o sampling port
- Tube end socket (straight connector) x 2
- Corrugated tube 1.5m x 2



PRODUCT ID : CO180/C0

COAXIL BREATHING CIRCUIT

Packaging : Box of 30

Description :

- Elbow 1pc, w/o sampling port
- Wye x 1pc, w/o sampling port
- Tube end socket (straight connector) x 2
- Corrugated tube, ID 15mm 1.5m x 2



PRODUCT ID : VT05

BiPAP BREATHING CIRCUIT

Packaging : Box of 30

Description : The BiPAP disposable circuit consist of :

- Smooth inner lumen tubing
- Proximal pressure line
- Disposable Exhalation Port
- 2 straight Connectors
- Hook and Loop Fastener



PRODUCT ID : A150LS+SC

SINGLE TUBING CIRCUIT WITH SOFT CONNECTOR

Packaging : Box of 30

The single tubing circuit with soft connector consist of :

- 150cm corrugated tube, ID 22mm x 1
- Flexible soft connectors at the tube ends x 2



Star Medik Group of Companies

Star Medik Sdn. Bhd.

Star Medik Industries Sdn. Bhd.



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**HAMILTON
MEDICAL**
Intelligent Ventilation since 1983