



FILTER TECHNOLOGY

PRODUCT COLLECTION

HEALTHCARE AIR FILTRATION





Introduction

This catalog is designed to provide complete information about the full range of GVS Healthcare Air components and filters.

For the sake of simplicity and clarity, the catalog is divided into product categories, consisting of a set of entries illustrating the general characteristics, the field of application and the code of each item.

The products are accompanied by a brief description featuring the main technical specifications, the shape and dimensions, the quantity of packaging and a statement of correspondence to the required standards.

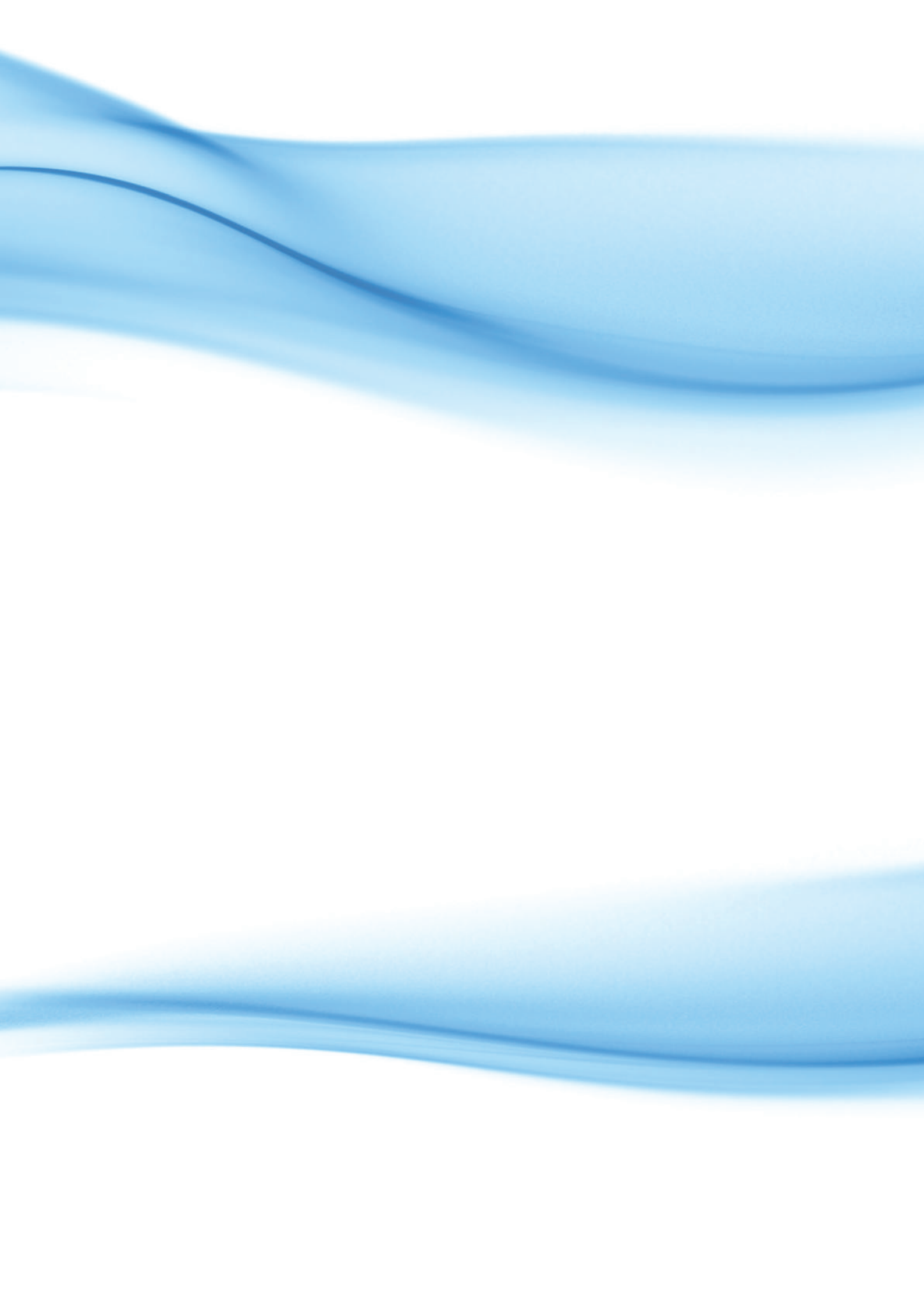
The wide range of filters and components made by GVS cover all the requirements of the medical device market. New made-to-measure molds may be manufactured on request in order to satisfy special needs, producing medical devices and articles with special dimensions, shape and purpose.

CAUTION:

The data in this catalog may vary according to the different types of materials used in the molding. This means that the product design may sometimes require analysis before orders are carried out.



FILTER TECHNOLOGY





MEDICAL AIR FILTRATION

INDEX

06	GVS GROUP
07	HEALTHCARE AIR FILTRATION
10	RESPIRATORY AND ANESTHESIA FILTERS & ACCESSORIES
12	MECHANICAL & ELECTROSTATIC FILTERS
	<i>Adult Electrostatic Filters</i>
	<i>Adult Mechanical Filters</i>
	<i>Pediatric Mechanical Filters</i>
	<i>Pediatric Electrostatic Filters</i>
	<i>Neonatal Electrostatic Filters</i>
20	HMEF - HEAT MOISTURE EXCHANGER WITH FILTER
	<i>Adult Electrostatic HMEF</i>
	<i>Adult Mechanical HMEF</i>
	<i>Pediatric Electrostatic HMEF</i>
	<i>Neonatal Electrostatic HMEF</i>
28	HME - HEAT MOISTURE EXCHANGER
	<i>Adult HME</i>
	<i>Pediatric HME</i>
	<i>Neonatal HME</i>
32	CATHETER MOUNTS
36	ANAESTHETIC BREATHING SYSTEMS
36	ANAESTHETIC FACE MASKS
36	ELECTROSTATIC & MECHANICAL KIT FILTER + MOUNT
38	TRACHEOSTOMY HUMIDIFIERS
40	SPIROMETRY FILTERS & ACCESSORIES
46	INSUFFLATION FILTERS
50	INSUFFLATION KITS
53	LAPARO-FLOW SUCTION & IRRIGATION KIT
54	SUCTION FILTERS
56	LAPARO-CLEAR SMOKE FILTRATION
58	CPAP/BIPAP FILTER RANGE
62	HOMECARE RANGE
68	VENT FILTERS
74	MULTI VENTILATOR FILTER for portable patient ventilator
75	REUSABLE HEPA FILTER
76	ELECTROSTATIC FILTERS FOR NEBULIZER THERAPY MACHINE
78	NITRIC OXIDE SCAVENGER FILTER
79	CONNECTOR SERIES
80	CODE INDEX



GVS Group

With over 30 years experience, GVS Group is one of the world's leading manufacturers of filters for applications in the Healthcare, Life Sciences, Automotive, Appliance, Safety, and Commercial & Industrial Filtration sectors.

Healthcare Filters & Components

The origins of GVS initially focused on medical filters for blood and IV solutions. Today provide a wide range of innovative products, including standard and custom devices for laboratory filtration, anesthesia, intensive therapy, and respiratory medicine.

International expansion

GVS group's presence in major markets across the world has led to the opening of 11 production and sales facilities located in Italy (3), UK (2), Brazil (1), USA (2), China (2) and Romania (1) as well as offices in Germany, Spain, México, Argentina, Japan, Korea, India and Russia.

Sophisticated industrial Technology

GVS's highly innovative medical device production technologies include multi-cavity insert and over-molding, high-speed automatic assembly, ultrasonic, heat and radio-frequency welding, laser cutting and welding and All in-Mold technology, a revolutionary manufacturing technology combining injection molding and robotic assembly all within the molding tool.

Commitment to Quality

GVS Group have operated to the international standard ISO 9001 since 1995. 2 years later GVS attained the QS9000.

The Medical Division has obtained ISO 13485 certification as well as authorisation for CE marking in accordance with the European Directive 93/42/EEC for some of its medical devices.

The majority of GVS plants have successfully achieved UNI EN ISO 14001 certification for Environmental Management System (EMS). All other divisions continue to operate to ISO 9001 and other required certifications for their specific markets.

Research & Development

A great part of the know-how incorporated in GVS's products comes from its Research Lab, which ensures that the company's various divisions get all the R&D they need. With its pioneering tools and facilities and highly sophisticated analytic techniques, this lab also works in close conjunction with a large number of hospitals and academic bodies of international acclaim, in Italy, in the UK and wherever GVS operates. Without it, the group's strongly innovation oriented policy and commitment to growth wouldn't be half as effective.

Every day approximately 90 million surgeries are performed worldwide. In 30 million cases, equipment is employed that uses breathing filters.

GVS - Healthcare Air Filtration

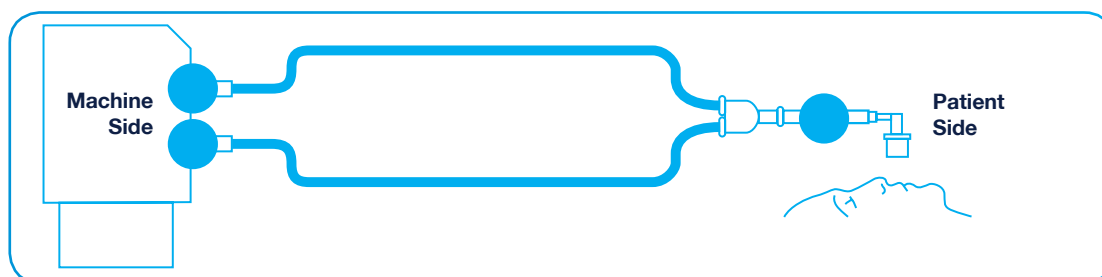
Where is a breathing filter used?

Even in a hospitalised environment, it is impossible to guarantee sterilisation of equipment for each surgical patient since every day several scheduled surgeries as well as emergency procedures are done in a single operating room.

Sterilisation of the apparatus requires special equipment and can take a long time meaning expensive equipment has too much downtime.

Using a single use, disposable bacterial/viral filter during the implementation of anaesthesia will severely reduce cross infection between the patient and machine. As the filters are single use per patient the equipment does not need to be sterilised each time enabling machines for surgery to be used more quickly and efficiently.

Filter Location in the System



The filter can be positioned at the patient Y piece, in the Expiratory or Inspiratory limb of the breathing circuit to reduce the risk of a patient becoming infected via the apparatus or an infected patient contaminating the machine.

Why a filter is used

The primary purpose of breathing filters placed between the patient and the respiratory circuit is prevention of cross infection between the patient and apparatus when performing endotracheal anaesthesia or mechanical lung ventilation.

These procedures require that the upper airway be bypassed during respiration. The purpose of the upper airway is to remove particulates from the air to deactivate bacteria and viruses by means of biologically active substances having bactericidal and viricidal properties. These are secreted by the mucous membrane, and also to warm inspired air to 35°C-36°C and to humidify it to a relative humidity of 98%-100%. The recommendation that air filters should be used in medical devices is relatively recent.

Problems that patients encounter

Not only purification of the breathing mixture occurs in the upper airways but also its humidification and warming.

In mechanical lung ventilation, the breathing mixture enters the trachea, bypassing the upper airways.

The lack of humidification and warming of the breathing mixture results in the following complications:

- **Hypothermia** causes the body to drop below a normal temperature.
- **Dehydration**, which can cause hypotension.
- **Inhalation** of contamination and cross infection.
- **The mucous membrane swells** which disrupts the movement of the mucous in the direction of the pharyngonasal cavity.
- **Necrosis** of the epithelium and mucous membrane which deprives the lungs of their protective function, leading to lung collapse, infection, pneumonia and other illnesses.

How Filters Limit the Risks

Transmission of infection during endotracheal anaesthesia and prolonged lung ventilation can be prevented by placing a disposable filtering device between the patient and the respiratory circuit. The breathing filter, can also be given the properties of a heat and moisture exchanger to reduce the risk of dehydration and excessive drop in body temperature. As well as providing a barrier to particulate matter entering the patient airways, using breathing filters significantly increases the material resources of the anaesthesia and respiratory equipment.

Type of Filtration Devices

The type of breathing filter and also where it is placed depends on the type of illness, and the physiological characteristics of the patient.

Filter – Removes particles only.

HME – Heat Moisture Exchanger – This filter type contains a foam which retains and returns heat and moisture to the patient. However this filter type does not remove particles.

HMEF – Heat Moisture Exchanger + Filter – Like the HME, the HMEF retains and returns heat and moisture but also contains either a pleated or electrostatic filter media that will remove particles.

How Filters Works

Pleat filters and electrostatic filters both work in different ways.

Electrostatic filters consist of fine synthetic fibres.

The positive and negative charge on filter fibres is generated during the manufacturing process and enhances the filter's ability to attract particulate matter.

Pleat filters work purely on mechanical filtration and direct interception. Particles which are larger than the pore size of the filter media are unable to pass through and as the filter collects particles the matrix becomes tighter therefore increasing the efficiency.



FILTRATION MEDIA COMPARISON

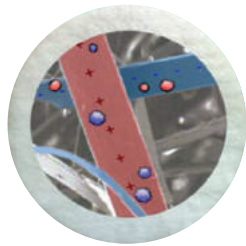
Electrostatic Media

Efficiency: achieved through electrical charge in the media (created through friction during manufacture).

Consistency: the electrical charge will dissipate when exposed to moisture, leaving a more open matrix.

Inconsistency arises when the charge has dissipated but insufficient particulates have been collected between the fibres to aid mechanical filtration.

Protection: electrostatic media cannot repel blood or fluids. If the filter becomes wet its function deteriorates, and if occluded by fluid the fluid can penetrate and enter the device.



GVS electrostatic filters utilise a unique patented 'triboelectrical charge exchange' between a specially developed blend of polymers to induce a highly stable electrical charge on every individual fibre in the media to more easily trap small particles. The advantages of this type of filter are: efficiencies up to 99.9999%, low manufacturing costs and ease of construction.

Fig: Electrostatic Filter – 50% of fibres +charged: 50% of fibres –charged.

Pleated Hydrophobic Media

Efficiency: achieved by using high-grade paper which is then pleated to increase the filtration area.

Consistency: maintained throughout filter use as the fibre matrix is much closer with performance related to the volume of media to achieve efficiency, rather than an electrical charge to boost it. There is no risk of inconsistency arising as with electrostatic filters.

Protection: a special treatment of the media enables it to repel blood and fluids thereby preventing it from passing into the system and risking contamination, or the filter losing efficiency at being able to filter the air.

GVS mechanical pleated filters carry hydrophobic properties which provide a complete barrier to viral pathogens under normal clinical conditions. Efficiencies up to 99.99999% are available among GVS range of mechanical pleated filters. The advantage of an ability to cope with all particle sizes, high efficiency over long periods, increased efficiency over time, and the highest possible performance (99.99999% on 24 Hour Test) need to be balanced against the higher cost of production.

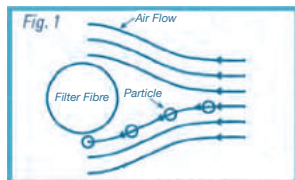


Fig 1: Direct Interception: This occurs when a particle passes within half of its diameter of a fibre's surface and is most effective for particles in the 0.3 – 1 micron range. The smaller the pore size, the greater the efficiency in interception.

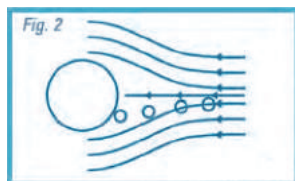


Fig 2: Inertial Impaction: This results from a directional change from the gas flow. Particles of one micron and greater remain on their original course and impact on the surface of the media as a result of the large mass and inertia.

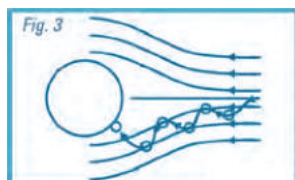


Fig 3: Diffusion: Particles of less than 0.3 microns are captured as a result of undergoing considerable Brownian movement.

PERFORMANCE

GVS engineering skill in design and development is evidenced by the fact that it produces an HMEF that has achieved one of the highest ever recorded moisture outputs.

The patents held by GVS further testify to its innovative capabilities. Experience in the use of a wide range of filtration medias ensures cost-effective production without compromising on efficiency or performance even for its filters that achieve 99.99999% efficiency.

Depending on the type of filter or its intended application independent testing is carried out by Nelson Laboratories in the USA; CAMR, Porton Down, the University of Wales, and Dept of Health (MHRA report, March 2004) in the UK.

FILTER TECHNICAL CHARACTERISTICS

There are certain characteristics that a filter should have in order to assure that it is going to be safe and secure in use within a patient's breathing system. Its primary function is as an effective barrier to prevent any cross contamination in the clinical environment. It needs to be effective against Bacteria, Virus and any fluids that may be present in the patient's airway. Medical filters performance can be validated in two ways.

BACTERIAL AND VIRAL TESTING

This is normally performed at an independent test facility which develops specific protocols to simulate the types of challenges that a filter may see in the clinical setting. A challenge particle is chosen to simulate the size of the commonly occurring bacteria and viruses. Generally these tests are not conducted using a "live" virus due to the cost and safety issues. GVS MAF has appointed Nelson Laboratories, Utah, USA as independent test facility. Their bacterial test protocol uses Staphylococcus Aureus as a challenge organism which has an approximate size 0.6 mm and the viral test uses an X174 Bacteriophage which has a size of 0.027 mm. It is worth noting that the HIV virus is 0.08 mm and Hepatitis C is 0.02 mm so the test protocol does offer a clinically relevant reflection of their performance.

PENETRATION TEST

A standard BS EN 13328 -1 2002 (Breathing System Filters for Anesthetic and Respiratory use. Part 1 Salt Test method to assess filtration performance) has been developed as a method of benchmarking the performance of one filter against another. The test requires the filter to be challenged by a 0.3 mm Sodium Chloride particle at a flow rate of 30 Liters per minute. The level of penetration is measured and the resulting efficiency reported as a percentage. i.e. if a filter has penetration rate of 0.5% the filter's performance will be recorded as 99.5% efficient. This test allows a direct comparison of how individual filters perform. Under this system a filter must be more than 99.97% efficient to be classified as a HEPA filter. All of the GVS MAF pleated filters are individually tested during manufacture to confirm that they are all HEPA performance.

The quality of connections of the filter housing is vital to ensure a safe secure fitting within the patient's breathing system during clinical use. All of the 15mm & 22mm tapered connections are tested and comply with ISO 5356 for maximum patient safety. It is now common clinical practice to continually measure the gas that the patient is breathing in and expiring during the any procedure. The GVS MAF filters have been designed to comply with ISO standards to ensure a safe secure fit to monitoring devices. In addition the "Cap & Strap" is an integral part of the molding minimizing the possibility of it becoming detached and inadvertently occluding the airway, improving patient safety. The products are all designed to meet the clinical requirements from the smallest baby to the largest adult, with a focus upon minimal resistance, minimum weight and product dead space, combined with the maximum possible product efficiency.

Clinicians may choose a combined product which offers both filtration and humidification (HMEF) to the respiratory gases. This helps alleviate any symptoms associated with breathing cold dry medical gases for a prolonged period of time. The performance of all HME products is verified by independent testing of the product against ISO 9360.

Tidal Volume: (VT) The volume of gas inhaled and exhaled by the patient during one respiratory cycle. The average for a 70 Kg adult is 500 ml.

Minute Volume: (MV) The quantity of gas exhaled from the lungs per minute; i.e. the tidal volume multiplied by respiratory rate. An average 70Kg Adult with a respiratory rate of 12 breaths per minute (500 ml x 12) would have a minute volume of 6 liters.

Dead Space: There are two types.

1) Anatomical Dead Space is the volume of the patient airways of the nose, mouth, and trachea down to the level of the alveoli, representing the portion of inspired gas unavailable for exchange of gases with pulmonary capillary blood. The average anatomical dead space of a 70 Kg adult is 150 ml.

2) Breathing System Dead Space is the volume of any breathing system components which is adding to the portion of the inspired gas that is unavailable for exchange of gases with pulmonary capillary blood.

Resistance: This is an expression of the amount of effort that is required to make an inspiratory or an expiratory breath.

Efficiency: This will be the level of filtration protection or function that the device can deliver. The efficiency of the filter is normally expressed as a reflection as the number of micro organisms that pass through the filter media when it is challenged. This filter is then described as being X% efficient. The X% is an expression of the number of organisms penetrating the filter when challenged by an aerosol containing 1,000,000 micro organisms.

The table below explains the relevance of the X% on performance and level of protection in the clinical environment.

Number of Organisms Challenging the Filter	% Efficiency of the Filter	Number of Organisms Passing through the Filter
1,000,000	90	100,000
	99	10,000
	99.9	1000
	99.99	100
	99.999	10
	99.9999	1

HME: Heat Moisture Exchanger. These devices allow heat and moisture to be captured from expired gases and then returned to the patient in the inspired gases. This is established by testing against ISO 9360 -1 & 2 2000 "Anesthetic & Respiratory Equipment, HME's for humidifying respired gases in humans".

Capnography: This is the measurement and graphic display of CO₂ levels in the airways, which can be performed by infrared spectroscopy. A small sample of inspired and expired gases is taken via the gas sampling port on the filter. Capnography assists in the management of the patient by providing continuous and non invasive monitoring of ventilation in critically ill and anaesthetized patients. It allows early detection of clinically significant changes in respiratory status by displaying changes in the amount of CO₂ and abnormal CO₂ waveforms.

ISO: International Standards Organization is a group which has developed test and performance standards to introduce normalized standards of global practice and help improve patient safety.



RESPIRATORY AND ANESTHESIA

FILTERS & ACCESSORIES

Since 2000 GVS Group have developed a proprietary range of HME (Heat and Moisture Exchanger) and HMEFs (Heat and Moisture Exchanger and bacterial / viral Filter) and Filters (Bacterial and Viral) for use in anesthesia, intensive therapy, respiratory medicine, and ventilation, with efficiencies up to 99.99999%. A series of insufflation products for use during laparoscopic surgery have more recently been added to the range. This Filters section provides an overview of the products relevant to each category, e.g. Filters, HME, HMEFs, Suction Filters, Insufflation Filters, Spirometry, Vent Filters, and Homecare.

Technical product specifications provides detailed information on performance: e.g. efficiency, resistance to flow, moisture output (if applicable), dead-space, weight, connector size and overall dimensions.

Please note that products are available bulk packed, individually packed clinically clean, and or individually sterile upon request.

These products are designed and manufactured using quality systems in accordance with BS EN ISO 900, BS EN ISO 13485 and to the Medical Devices Directive 93/42 EEC. This means that GVS has the CE Marking on all class IIa filters.

Sterile filters are ETO sterilized to ISO11135-1 and Sterility Assurance Level (SAL) monitoring is based on ISO 11737-1 re-Microbiological Methods.

Filters

GVS Healthcare Air Filtration offers a range of filters for use within Anesthesia, Respiratory, Critical Care and Surgical clinical areas. These filters are used with patients whose upper airways are being bypassed by an artificial tracheal airway removing the patients natural ability to filter inspired air or receiving artificial ventilatory support where a gas is being introduced into a body cavity as during Laparoscopic surgery or to protect equipment, staff and the environment from potential cross contamination.

The hospital environment is increasingly a potential source of infection and with the increase incidence of infectious diseases the possibility of cross contamination due to the reuse of equipment or the sharing of equipment is a real risk.

GVS Healthcare Air Filtration is able to offer different types of filtration solutions for the protection of patients and equipment in the Medical field. We offer both pleated paper filters and electrostatic filters. All are independently tested at Nelson Laboratories USA and CAMR Porton Down UK. All pleated filters are individually tested against BS EN 13328:1 2001 to confirm that they are all above 99.97% efficiency and classified as HEPA performance.

Feature	Benefit
Low dead space	Minimizes possibility and dangers associated with re-breathing Carbon Dioxide
Lightweight	Reduces any pull on patients tracheal connection
Transparent	Allows easy visualization of any potential blockage
ISO Tapered Connections	Guarantees safe, secure connection to the breathing system.
ISO Gas sampling port	Easy, safe monitoring of expired gases
Complete Product Range	Meets all clinical requirements from Neonatal to Adults. Offers protection for all types of medical equipment from airborne and liquid cross contamination.
Proven performance	Offers high efficiency protection against bacterial and viral contamination. Independently tested and validated. Efficiencies up to 99.99999%

Heat Moisture Exchanger (HME)

Indicated for use with patients whose upper airways are being bypassed by an artificial airway. This removes the patient's natural ability to filter, warm and moisten inspired gases. Medical gases are much colder and dryer than those which people would normally breathe so the problem is exacerbated during Anesthesia and

Ventilation. HME media acts in a similar way to a person's upper airway, when they breathe out the media traps and retains moisture and warmth present in the expired breath, which otherwise would be lost. On the next breath the moisture and heat is released, having the effect of both warming and humidifying the inspiratory gas. The HME GVS MAF media has been developed to maximize the surface area, which is a key feature of the efficiency of performance. The ability to retain moisture from the gas can be further maximized by binding hygroscopic salts, which have a strong attraction to water in the foam media pad. The special binding process ensures that the media does not start attracting moisture until the patient starts to breathe through the device. A range of chemical free HME media are also increasingly in use.

The American Respiratory Society has identified 30mg/L H₂O as the level that these types of devices should aim to achieve.

The combination of these design features has enabled GVS MAF to achieve over 30mg/L H₂O on all there devices when independently tested to ISO 9360 part 1 at MDA test centre University Hospital Wales, Cardiff, UK.

Feature	Benefit
Low dead space	Minimizes possibility and dangers associated with re-breathing Carbon Dioxide
Lightweight	Reduces any pull on patients tracheal connection
Transparent	Allows easy visualization of any potential blockage
ISO Connections	Guarantees safe, secure connection to the breathing system.
Gas sampling port	Easy monitoring of expired gases
Complete Product Range	Meets all clinical requirements from Neonatal to Adults
Proven performance	Maximizes the humidity of inspired gases protecting the patient's airway from the effects of breathing cold and dry gases. The performance of each product is independently tested in accordance with ISO 9360 :1 and 2.

Heat Moisture Exchanger with Filter (HMEF)

GVS MAF offers a range of HMEF for use within Anesthesia, Respiratory and Critical Care clinical areas. Indicated for use with patients whose upper airways are being bypassed by an artificial tracheal airway or receiving artificial ventilator support. This removes the patient's ability to filter and humidify inspired gases. Medical gases are much colder and dryer than those, which we would normally breathe so the problem is exacerbated during Anesthesia and Ventilation.

The hospital environment is increasingly a potential source of infection and with the increased incidence of infectious diseases the possibility of cross contamination due to the reuse of equipment or the sharing of equipment is a real risk. GVS MAF is able to offer different types of filtration solutions for the protection of patients and equipment in the Medical field. ASL offers both pleated paper filters and electrostatic filters. All are independently tested at

Nelson Laboratories USA and CAMR Porton Down UK. All pleated filters are individually tested in accordance with BS EN 13328:1 2001 to confirm that they are all above 99.97% efficiency and classified as HEPA performance. HME media acts in a similar way to a person's upper airway, when they breathe out the media traps and retains moisture and warmth present in the expired breath, which otherwise would be lost.

On the next breath the moisture and heat is released, having the effect of both warming and humidifying the inspiratory gas. GVS's line HME media has been developed to maximize the surface area, which is a key feature of the efficiency of performance. The combination of these design features has enabled GVS MAF to achieve over 30mg/L H₂O on all there devices when independently tested to ISO 9360 part 1 at MDA test centre University Hospital Wales, Cardiff, UK.

Feature	Benefit
Low dead space	Minimizes possibility and dangers associated with re-breathing Carbon Dioxide
Lightweight	Reduces any pull on patients tracheal connection
Transparent	Allows easy visualization of any potential blockage
ISO Tapered Connections	Guarantees safe, secure connection to the breathing system.
ISO Gas sampling port	Easy monitoring of expired gases
Complete Product Range	Meets all clinical requirements from Neonatal to Adults. Offers protection for all types of medical equipment from airborne and liquid cross contamination.
Proven performance	Offers high efficiency protection against bacterial and viral contamination and helps maximizes the humidity of inspired gases, protecting the patient's airway from the affects of breathing cold and dry gases.



MECHANICAL & ELECTROSTATIC FILTERS

ECO SLIMLINE

• Adult Electrostatic Filter with gas sampling port



Dimensions
h. 67.2 mm; w. 68.5 mm
Housing Material
Transparent Polypropylene
Filtration method
Electrostatic
Filtration Efficiency
BFE 99.9999% *
VFE 99.999% *
Resistance @ 30 LPM
100 pa
Dead space
32 ml
Tidal Volume Range
90-1500 ml

Connections
(ISO 5356-1)
Weight
23 g
Sampling Port
Gas monitoring luer port with
retainer strap**
Luer Lock (ISO 594-1)
Application
Anaesthesia, ICU, Emergency,
Homecare. The filter can be
placed patient side or machine
side.
Maximum Duration of use
24 h

Ordering information:

Product Code	Description
4222/701ABSA	Adult Electrostatic Filter Green Bulk Packed
4222/01BAUA	Adult Electrostatic Filter Green Clinic Clean pouch packed
4222/701BRSA	Adult Electrostatic Filter Green Clinic Clean blister packed
4222/701BSSA	Adult Electrostatic Filter Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units, ABSA version 350 units.

* Independently tested, data available upon request

** Product is available without a luer lock gas sampling port as code 4222/702BRSA clinic clean blistered packed/ 4222/02BAUA clinic clean pouch packed

• Adult Electrostatic Filter with gas sampling port, angled connector



Dimensions
h. 79.0 mm; w. 78.0 mm
Housing Material
Transparent Polypropylene
Filtration Method
Electrostatic
Filtration Efficiency
BFE 99.9999% *
VFE 99.999% *
Resistance @ 30 LPM
100 pa
Dead space
30 ml
Tidal Volume
90-1500 ml
Connections
ISO 5356-1

Weight
23 g
Sampling Port
Gas monitoring luer port with
retainer strap, Luer Lock (ISO
594-1)
Application
Anaesthesia, ICU, Emergency,
Homecare. The filter should be
placed patient side between
the breathing circuit and the
catheter mount or between
the manual ventilation device
and the endotracheal tube
access.
Maximum duration of use
24 h

Ordering information:

Product Code	Description
4222/700ABSA	Adult Electrostatic Filter Angled Green Bulk Packed
4222/700BAUA	Adult Electrostatic Filter Angled Green Clinic clean pouch packed
4222/700BRSA	Adult Electrostatic Filter Angled Green Clean blister packed
4222/700BSSA	Adult Electrostatic Filter Angled Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units, ABSA version 350 units.

* Independently tested, data available upon request

• Adult Electrostatic Filter without gas sampling port



Dimensions

h. 67.2 mm; w. 68.5 mm

Housing Material

Transparent Polypropylene

Filtration method

Electrostatic

Filtration Efficiency

BFE 99.9999% *

VFE 99.999% *

Resistance @ 30 LPM

60 pa

Dead space

30 ml

Tidal Volume Range

90-1500 ml

Connections

22M/15F-22F

Weight

21 g

Application

Anaesthesia, ICU, Emergency, Homecare

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
4222/703ABSA	Adult Electrostatic Filter Clear bulk packed
4222/03BAUA	Adult Electrostatic Filter Clear Clinic Clean pouch packed
4222/703BRSA	Adult Electrostatic Filter Clear Clinic Clean blister packed
4222/703BSSA	Adult Electrostatic Filter Clear Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units, ABSA version 350 units.

* Independently tested, data available upon request

• Adult Electrostatic Filter



Dimensions

h. 67.2 mm; w. 68.5 mm

Housing Material

Transparent Polypropylene

Filtration method

Electrostatic

Filtration Efficiency

BFE 99.9999% *

VFE 99.999% *

Resistance @ 30 LPM

100 pa

Dead space

30 ml

Tidal Volume Range

90-1500 ml

Connections

22M/15F-22F/15M

Weight

23 g

Application

Anaesthesia, ICU, Emergency, Homecare

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
4222/702ABSA	Adult Electrostatic Filter Green bulk packed
4222/702BAUA	Adult Electrostatic Filter Green Clinic Clean pouch packed
4222/702BRSA	Adult Electrostatic Filter Green Clinic Clean blister packed
4222/702BSSA	Adult Electrostatic Filter Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units, ABSA version 350 units.

* Independently tested, data available upon request



MECHANICAL & ELECTROSTATIC FILTERS

• Adult Breathing Electrostatic filter - FLOWBAC



Dimensions

Body W1 88.00 mm - W2 58.00 mm

Total Height

58.00 mm

Weight:

23g

Effective Filtering Area

37 cm²

Effective Exchanging Area

35 ml

Inlet/Outlet connectors

Machine Side: 22F (ISO 5356-1)

Patient Side: 22M/15F (ISO 5356-1)

Capnometry port: Female Luer Lock (ISO 594-1) with protective cap

Materials of construction

Housing: Clear Transparent K-Resin

(also available in other colors)

Filtering material: Hydrophobic PP electrostatically Charged

Bacterial Efficiency

99.999% Bacillus Atropheus (ATCC9372)

Tidal Volume

Higher than 250 ml

Flow resistance

30 l/min - 0.75 cmH₂O

60 l/min - 1.6 cmH₂O

90 l/min - 2.9 cmH₂O

Sterilization

Suitable for EtO sterilization.

Application

Disposable single use device, usable for a maximum of 24 hours

Maximum storage and operating temperature

40°C (104°F) indoor operation

Application

Anaesthesia, ICU, Emergency, Homecare

Ordering information:

Product Code	Description
FR004AKRET200A00	Adult Transparent Breathing Electrostatic Filter – FLOWBAC bulk
FR004SKRET200A00	Adult Transparent Breathing Electrostatic Filter - FLOWBAC sterile
FR004AKRET200D00	Adult Blue Breathing Electrostatic Filter – FLOWBAC bulk
FR004SKRET200D00	Adult Blue Breathing Electrostatic Filter - FLOWBAC sterile

Packaging: Quantity / Box 50 units

• Adult Electrostatic Filter COMFORT-FIT



Dimensions

h. 107.0 mm; w. 60.5 mm

Housing Material

Polypropylene

Filtration Method

Electrostatic

Filtration Efficiency

BFE 99.9999%

VFE 99.999%

Resistance @ 30 LPM

83 pa

Dead space

74 ml

Tidal Volume

200-1500 ml

Connections

(ISO 5356-1)

patient side 22M/15F

machine side 22F/15M

Weight

37 g

Sampling Port Luer Lock (ISO 594-1)

Gas monitoring luer port with retainer strap

Application

Anaesthesia, ICU, Emergency, Homecare. The filter can be placed patient side or machine side

Maximum duration of use

24 h

Ordering information:

Product Code	Description
8866/01ABSA	Adult Electrostatic Comfort Fit Bacterial/Viral Filter Clear bulk packed
8866/01BAUA	Adult Electrostatic Comfort Fit Filter Clear Clinic Clean pouch packed
8866/01BASA	Adult Electrostatic Comfort Fit Filter Clear Clinic Cleanbag packed
8866/01BRSA	Adult Electrostatic Comfort Fit Filter Clear Clinic Clean blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units, ABSA version 350 units.



MECHANICAL FILTERS

ECO MAXIPLEAT

• Adult Mechanical HEPA Filter with gas sampling port

**Dimensions**

h. 81.5 mm; w. 68.5 mm

Housing Material

Transparent Polypropylene

Filtration Method

Mechanical (HEPA)

Humidity Output

25 mg/H₂O/l @ VT 500 ml*

Filtration Efficiency

BFE 99.9999% *

VFE 99.9999% *

Resistance @ 30 LPM

150 pa

Dead space

52 ml

Tidal Volume Range

200-1500 ml

Connections

(ISO 5356-1)

Weight

40 g

Sampling Port

Gas monitoring luer port with retainer strap. Luer Lock (ISO 594-1)

Application

Anaesthesia, ICU, Emergency, Homecare

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
4244/701ABSA	Adult Mechanical straight HEPA Filter Green bulk packed
4244/01BAUA	Adult Mechanical straight HEPA Filter Green Clinic Clean pouch packed
4244/701BRSA	Adult Mechanical straight HEPA Filter Clear Clinic Clean blister packed
4244/701BSSA	Adult Mechanical straight HEPA Filter Green Sterile blister packed
4244/01BTUA	Adult Mechanical HEPA Filter Green Sterile pouch packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units, ABSA version 350 units.

* Independently tested, data available upon request

• Adult Mechanical HEPA Filter with gas sampling port, angled connector

**Dimensions**

h. 89.0 mm; w. 78.0 mm

Housing Material

Transparent Polypropylene

Filtration Method

Mechanical (HEPA)

Humidity Output

25 mg/H₂O/l @ VT 500 ml*

Filtration Efficiency

BFE 99.9999% *

VFE 99.9999% *

Resistance @ 30 LPM

130 pa

Dead space

66 ml

Tidal Volume Range

200-1500 ml

Connections

(ISO 5356-1)

Weight

42 g

Sampling port

Gas monitoring luer port with retainer strap. Luer Lock (ISO 594-1)

Application

Anaesthesia, ICU, Emergency, Homecare. The filter should be placed patient side between the breathing circuit and the catheter mount or between the manual ventilation device and the endotracheal tube access

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
4244/700ABSA	Adult Mechanical Angled Filter Bulk Packed
4244/700BAUA	Adult Mechanical Angled Filter Clinic Clean pouch packed
4244/700BRSA	Adult Mechanical Angled HEPA Filter Clinic Clean blister packed
4244/700BSSA	Adult Mechanical Angled Filter Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units, ABSA version 350 units.

* Independently tested, data available upon request



MECHANICAL & ELECTROSTATIC FILTERS

ECO MAXIPLEAT

• Adult Mechanical HEPA Filter, straight connectors

**Dimensions**

h. 81.5 mm; w. 68.5 mm

Housing Material

Transparent Polypropylene

Filtration Method

Mechanical (HEPA)

Humidity Output

25 mg/H₂O @ VT 500 ml*

Filtration Efficiency

BFE 99.9999% *

VFE 99.9999% *

Resistance @ 30 LPM

150 pa

Dead space

52 ml

Tidal Volume Range

200-1500 ml

Connections

(ISO 5356-1)

Weight

40 g

Application

Anaesthesia, ICU, Emergency,
Homecare

Maximum Duration of use

24 h

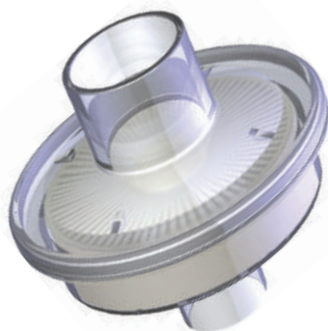
Ordering information:

Product Code	Description
4244/702ABSA	Adult Mechanical HEPA Filter Green bulk packed
4244/702BAUA	Adult Mechanical HEPA Filter Green Clinic Clean pouch packed
4244/702BRSA	Adult Mechanical HEPA Filter Green Clean blister packed
4244/702BSSA	Adult Mechanical HEPA Filter Green blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units, ABSA version 350 units.

* Independently tested, data available upon request

• Adult Mechanical HEPA filter - Long Term anesthesia/ventilation

**Housing Material**

Transparent Polypropylene

Filtration Method

Mechanical (HEPA)

Filtration Efficiency

BFE 99.9999%*

VFE 99.997%*

Resistance

160 pa @ 60L/min

260 pa @ 90L/min

Connections

(ISO 5356-1)

patient side 22M
machine side 22F

Application

Anaesthesia, ICU, Emergency,
Homecare. The filter should be
placed machine side

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
4020/06ABSA	Adult Mechanical HEPA Filter Machine side Long Term anesthesia/ventilation Clear bulk packed
4020/06BAUA	Adult Mechanical HEPA Filter Machine side Long Term anesthesia/ventilation Clear Clinic Clean pouch packed
4020/06BRSA	Adult Mechanical HEPA Filter Machine side Long Term anesthesia/ventilation Clear Clinic Clean blister packed
4020/06ABSA	Mechanical HEPA filter machine side Long Term anesthesia/ventilation bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units, ABSA version 350 units.

* Independently tested, data available upon request

• Pediatric Mini Mechanical HEPA Filter with gas sampling port



Dimensions

h. 77.7 mm; w. 49.2 mm

Housing Material

Transparent Polypropylene

Filtration Method

Mechanical (HEPA)

Humidity Output

20 mg/H₂O/l @ VT 500 ml*

Filtration Efficiency

BFE 99.9999% *

VFE 99.9999% *

Usage

For patient 10 Kg.+

Dead space

40 mls

Tidal Volume

≥120 ml

Connections

(ISO 5356-1)

patient side 22M/15F

machine side 15M

Weight

26 g

Sampling Port

Gas monitoring luer port with
retainer strap Luer Lock (ISO
594-1)

Application

Anaesthesia, ICU, Emergency,
Homecare

Maximum Duration of use

24 h

Ordering information:

Product Code

9898/01BAUA

Description

Pediatric Pleated Mechanical HEPA Filter Straight Clear Clinic Clean pouch packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units

* Independently tested, data available upon request



MECHANICAL & ELECTROSTATIC FILTERS

ECO MINI

• Pediatric Electrostatic Filter with gas sampling port

**Dimensions**

h. 73.0 mm; w. 48.0 mm

Housing Material

Transparent Polypropylene

Filtration method

Electrostatic

Filtration Efficiency

BFE 99.999% *

VFE 99.999% *

Resistance @ 15 LPM

120 pa

Dead space

26 ml

Tidial Volume Range

100-1500 ml

Connections

(ISO 5356-1)

Weight

18 g

Sampling Port

Gas monitoring luer port with
retainer strap, Luer Lock (ISO
594-1)

Application

Anaesthesia, ICU, Emergency,
Homecare

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
9066/701ABSA	Pediatric Electrostatic Filter Green bulk packed
9066/701BAUA	Pediatric Electrostatic Filter Green Clinic Clean pouch packed
9066/701BRSA	Pediatric Electrostatic Filter Green Clinic Clean blister packed
9066/701BSSA	Pediatric Electrostatic Filter Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units, ABSA version 350 units.

* Independently tested, data available upon request

• Pediatric Electrostatic Filter with gas sampling port, angled connector

**Dimensions**

h. 83.0 mm; w. 56.0 mm

Housing Material

Transparent Polypropylene

Filtration method

Electrostatic

Weight

19 g

Filtration Efficiency

BFE 99.999% *

VFE 99.999% *

Resistance @ 15 LPM

100 pa

Dead space

32 ml

Tidial Volume Range

90-1500 ml

Connections

(ISO 5356-1)

Sampling Port

Gas monitoring luer port with
retainer strap, Luer Lock (ISO
594-1)

Application

Anaesthesia, ICU, Emergency,
Homecare

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
9067/700ABSA	Pediatric Electrostatic Filter Angled Green bulck packed
9067/700BRSA	Pediatric Electrostatic Filter Angled Green Clinic Clean blister packed
9067/700BSSA	Pediatric Electrostatic Filter Angled Green Sterile blister packed

Packaging: Quantity/Box 50 units. ABSA version Shipping Box 350 units.

* Independently tested, data available upon request

ECO MICRO

• Neonatal Electrostatic Filter with gas sampling port, angled connector



Dimensions
h. 44.0 mm; w. 59.0 mm
Housing Material
Transparent Polypropylene
Filtration method
Electrostatic
Filtration Efficiency
BFE 99.999%
VFE 99.99%
Resistance @ 10 LPM
160 pa
Dead space
13 ml
Tidal Volume Range
> 45 ml

Connections
(ISO 5356-1)
Weight
9 g
Sampling Port
Gas monitoring luer port with
retainer strap, Luer Lock (ISO
594-1)
Application
Anaesthesia, ICU, Emergency,
Homecare
Maximum Duration of use
24 h

Ordering information:

Product Code	Description
9080/700ABSA	Neonatal Electrostatic Filter Angled Green Bulk Packed
9080/700BAUA	Neonatal Electrostatic Filter Angled Green Clinic Clean pouch packed
9080/700BRSA	Neonatal Electrostatic Filter Angled Green Clinic Clean blister packed
9080/700BSSA	Neonatal Electrostatic Filter Angled Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units, ABSA version 350 units.

• Neonatal Electrostatic Filter with gas sampling port



Dimensions
h. 46.0 mm; w. 38.0 mm
Housing Material
Transparent Polypropylene
Filtration method
Electrostatic
Filtration Efficiency
BFE 99.999% *
VFE 99.99% *
Resistance @ 7.5 LPM
85 pa
Dead space
11 ml

Tidal Volume Range
> 35 ml
Connections
(ISO 5356-1)
Weight
9 g
Sampling Port
Gas monitoring luer port with
retainer strap**
Luer Lock (ISO 594-1)
Application
Anaesthesia, ICU, Emergency,
Homecare
Maximum Duration of use
24 h

Ordering information:

Product Code	Description
9080/01BAUA	Neonatal Electrostatic Clear Filter Clinic Clean pouch packed
9080/01BTUA	Neonatal Electrostatic Clear Filter Sterile pouch packed
9080/01BBUA	Neonatal Electrostatic Clear Filter bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request



HMEF

HEAT MOISTURE EXCHANGER WITH FILTER

ECO MAXI

• Adult Electrostatic HMEF with gas sampling port



Dimensions
h. 77.0 mm; w. 68.5 mm
Housing Material
Transparent Polypropylene
HME material
polyurethane foam
Filtration method
Electrostatic
Humidity Output
31 mg/H₂O/l @VT 500 ml*
Filtration Efficiency
BFE 99.999% *
VFE 99.999% *
Resistance @ 30LPM
100 pa
Dead space
55 ml

Tidal Volume Range
150-1500 ml
Connections
(ISO 5356-1)
Weight
27 g
Sampling Port
Luer Lock (ISO 594-1)**
Application
Anaesthesia, ICU, Emergency, Homecare, the filter should be placed patient side between the breathing circuit and the catheter mount
Maximum Duration of use
24 h

Ordering information:

Product Code	Description
4333/711ABSA	Adult Heat Moisture Exchanger Electrostatic Filter and HME (HMEF) Green bulk packed
4333/01BAUA	Adult Heat Moisture Exchanger Electrostatic Filter and HME (HMEF) Clear Clinic Clean pouch packed
4333/711BRSA	Adult Heat Moisture Exchanger Electrostatic Filter and HME (HMEF) Green Clinic Clean blister packed
4333/711BSSA	Adult Heat Moisture Exchanger Electrostatic Filter and HME (HMEF) Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units, ABSA version 350 units.

* Independently tested, data available upon request

** Product is available as Angled Heat with luer lock gas sampling port as code 4333/710BRSA clinic clean blister packed, or without luer lock gas sampling port as code 4333/712BRSA clinic clean blister packed

• Adult Electrostatic Filter HMEF with gas sampling port



Dimensions
h. 81.5 mm; w. 68.5 mm
Housing Material
Transparent Polypropylene
HME material
Corrugated paper
Filtration method
Electrostatic
Humidity Output
25 mg/H₂O @ VT 500 ml
Filtration Efficiency
BFE 99.999%
VFE 99.999%
Resistance @ 30LPM
150 pa
Dead space
52 ml

Tidal Volume Range
200-1500 ml
Connections
22M/15F-22F/15M
Weight
40 g
Sampling Port
Luer Lock (ISO 594-1)
Application
Anaesthesia, ICU, Emergency, Homecare, the filter should be placed patient side between the breathing circuit and the catheter mount
Maximum Duration of use
24 h

Ordering information:

Product Code	Description
4333/761ABSA	Adult Heat Moisture Exchanger Mechanical Electrostatic Filter (HMEF) Green Bulk packed
4333/761BAUA	Adult Heat Moisture Exchanger Mechanical Electrostatic Filter (HMEF) Green Clinic Clean pouch packed
4333/761BRSA	Adult Heat Moisture Exchanger Mechanical Electrostatic Filter (HMEF) Green Clinic Clean blister packed
4333/761BSSA	Adult Heat Moisture Exchanger Mechanical Electrostatic Filter (HMEF) Green Sterile blister packed

Packaging: Quantity/Box 50 units. ABSA version Shipping Box 350 units.

• TermoFlow



TERMOFLOW

Dimensions

Body W1 88.00 mm - W2 58.00 mm

Total Height 74.00mm

Weight

38.50 g

Effective Filtering Area

37 cm²

Effective Exchanging Area

3,000 cm²

Inside filter volume (connectors includes) 70 ml

Inlet/Outlet connectors

Machine Side: 22F (ISO 5356-1)

Patient Side: 22M/15F (ISO

5356-1)

Capnometry port: Female Luer Lock

(ISO 594-1) with protective cap

Materials of construction

Housing: Clear Transparent

K-Resin

(also available in other colors)

Filtering material

Hydrophobic PP electrostatically

charged HME material:

Hygroscopic Cellulose

Bacterial Efficiency

99.999% Bacillus Atropheus (ATCC9372)

Tidal Volume Range

Higher than 250 ml

Flow resistance

301/min -1.5 cmHzO

601/min - 2.2 cmHzO

901/min - 4.4 cmHzO

Moisture output

VT =1000 ml- 31.5mg/1

VT = 500 ml - 31.7mg/1

Sterilization

Suitable for Eta sterilization

Application

Disposable single use device, usable for a maximum of 24 hours

Maximum storage and operating temperature

40°C (104°F) indoor operation

Application

Anaesthesia, ICU, Emergency,

Homecare

Ordering information:

Product Code	Description
FR003AKRET200A00	Adult Transparent HME Breathing Electrostatic Filter - THERMOFLOW bulk
FR003SKRET200A00	Adult Transparent HME Breathing Electrostatic Filter - THERMOFLOW sterile
FR003AKRET200D00	Adult Blue HME Breathing Electrostatic Filter - THERMOFLOW bulk
FR003SKRET200D00	Adult Blue HME Breathing Electrostatic Filter - THERMOFLOW sterile

Packaging: Quantity/Box 50 units.

• Adult Electrostatic Filter/HME COMFORT-FIT



Dimensions

h. 107.0 mm; w. 60.5 mm

Housing Material

Polypropylene

HME material

Polyurethane foam

Filtration method

Electrostatic

Humidity Output

29 mg/H₂O/l @ VT 500 ml*

Filtration Efficiency

BFE 99.999%*

VFE 99.999%*

Resistance @ 30 LPM

98 pa

Dead space

76 ml

Tidal Volume Range

90-1500 ml

Connections

(ISO 5356-1)

Weight

38 g

Sampling Port

Gas monitoring luer port with retainer strap, Luer Lock (ISO 594-1)

Application

Anaesthesia, ICU, Emergency, Homecare, the filter should be placed patient side between the breathing circuit and the catheter mount

Maximum duration of use

24 h

Ordering information:

Product Code	Description
8866/100ABSA	Adult Electrostatic Filter and HME (HMEF) Clear bulk packed
8866/100BAUA	Adult Electrostatic Filter and HME (HMEF) Clear Clinic Clean pouch packed
8866/100BRSA	Adult Electrostatic Filter and HME (HMEF) Clear Clinic Clean blister packed
8866/100BSSA	Adult Electrostatic Filter and HME (HMEF) Clear Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units, ABSA version 350 units.

* Independently tested, data available upon request



HMEF

HEAT MOISTURE EXCHANGER WITH FILTER

ECO MAXIPLEAT

• Adult Mechanical HEPA filter/HME with gas sampling port

**Dimensions**

h. 84.9 mm; w. 68.5 mm

Housing Material

Transparent Polypropylene

HME material

Polyurethane foam

Filtration Method

Mechanical (HEPA)

Humidity Output

30 mg/H₂O/l @VT 500 ml*

Filtration Efficiency

BFE 99.9999% *

VFE 99.9999% *

Resistance @ 30 LPM

140 pa

Dead space

52 ml

Tidal Volume Range

200-1500 ml

Connections

(ISO 5356-1)

Weight

40 g

Sampling Port

Gas monitoring luer port with retainer strap, Luer Lock (ISO 594-1)

Application

Anaesthesia, ICU, Emergency, Homecare, The filter should be placed patient side between the breathing circuit and the catheter mount

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
4244/711ABSA	Adult Mechanical HEPA Filter Green bulk packed
4244/711BAUA	Adult Mechanical HEPA Filter Green Clinic Clean pouch packed
4244/711BRSA	Adult Mechanical HEPA Filter Green Clinic Clean blister packed
4244/711BSSA	Adult Mechanical HEPA Filter Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units, ABSA version 350 units.

* Independently tested, data available upon request

ECO MIDI

• Adult Electrostatic midi Filter/HME with gas sampling port



Dimensions
h. 81.4 mm; w. 48.1 mm
Housing Material
Transparent Polypropylene
HME material
Polyurethane Foam
Filtration method
Electrostatic
Humidity Output
>31 mg/H₂O/l @VT 500 ml*
Filtration Efficiency
BFE 99.999% *
VFE 99.999% *
Resistance @ 30 LPM
130 pa
Dead space
33 ml

Tidal Volume
120-1500 ml
Connections
(ISO 5356-1)
Weight
21 g
Sampling Port
Gas monitoring luer port with
retainer strap, Luer Lock (ISO
594-1)
Application
Anaesthesia, ICU, Emergency,
Homecare, The filter should be
placed patient side between
the breathing circuit and the
catheter mount
Maximum Duration of use
24 h

Ordering information:

Product Code	Description
9064/711ABSA	Adult Electrostatic Filter with Heat Moisture Exchanger (HMEF) Green bulk Packed
9064/711BAUA	Adult Electrostatic Filter with Heat Moisture Exchanger (HMEF) Green Clinic Clean pouch packed
9064/711BRSA	Adult Electrostatic Filter with Heat Moisture Exchanger (HMEF) Green Clinic Clean blister packed
9064/711BSSA	Adult Electrostatic Filter with Heat Moisture Exchanger (HMEF) Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units, ABSA version 350 units.

* Independently tested, data available upon request

• Adult Electrostatic midi Filter/HME with gas sampling port, angled connector



Dimensions
h. 91.3 mm; w. 56.2 mm
Housing Material
Transparent Polypropylene
HME material
Polyurethane foam
Filtration method
Electrostatic
Humidity Output
>31 mg/H₂O/l @VT 500 ml *
Filtration Efficiency
BFE 99.999% *
VFE 99.999% *
Resistance @ 15 LPM
120 pa
Dead space
41 ml
Tidal Volume Range
120-1500 ml

Connections
(ISO 5356-1)
Weight
21 g
Sampling Port
Luer Lock (ISO 594-1)
Gas monitoring luer port with
retainer strap (e cancellare
yes)
Application
Anaesthesia, ICU, Emergency,
Homecare, The filter should be
placed patient side between
the breathing circuit and the
catheter mount
Maximum Duration of use
24 h

Ordering information:

Product Code	Description
9065/710ABSA	Adult Electrostatic Filter with Heat Moisture Exchanger (HMEF) Angled Green bulk packed
9065/710BAUA	Adult Electrostatic Filter with Heat Moisture Exchanger (HMEF) Angled Green Clinic Clean pouch packed
9065/710BRSA	Adult Electrostatic Filter with Heat Moisture Exchanger (HMEF) Angled Green Clinic Clean blister packed
9065/710BSSA	Adult Electrostatic Filter with Heat Moisture Exchanger (HMEF) Angled Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units, ABSA version 350 units.

* Independently tested, data available upon request



HMEF

HEAT MOISTURE EXCHANGER WITH FILTER

ECO MINI

• Pediatric Electrostatic mini Filter/HME with gas sampling port



Dimensions
h. 73.0 mm; w. 48.0 mm
Housing Material
Transparent Polypropylene
HME material
Polyurethane foam
Filtration method
Electrostatic
Humidity Output
31 mg/H₂O/l @VT 250 ml*
Filtration Efficiency
BFE 99.999% *
VFE 99.999% *
Resistance @ 15 LPM
120 pa
Dead space
26 ml

Tidal Volume Range
90-1500 ml
Connections
(ISO 5356-1)
Weight
19 g
Sampling Port
Luer Lock (ISO 594-1)
Gas monitoring luer port with
retainer strap
Application
Anaesthesia, ICU, Emergency,
Homecare, The filter should be
placed patient side between
the breathing circuit and the
catheter mount
Maximum Duration of use
24 h

Ordering information:

Product Code	Description
9066/711ABSA	Pediatric Electrostatic Filter with Heat Moisture Exchanger (HMEF) Green bulk packed
9066/711BAUA	Pediatric Electrostatic Filter with Heat Moisture Exchanger (HMEF) Green Clinic Clean pouch packed
9066/711BRSA	Pediatric Electrostatic Filter with Heat Moisture Exchanger (HMEF) Green Clinic Clean blister packed
9066/711BSSA	Pediatric Electrostatic Filter with Heat Moisture Exchanger (HMEF) Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units, ABSA version 350 units.

* Independently tested, data available upon request

• Pediatric Electrostatic mini Filter/HME with gas sampling port, angled connector



Dimensions
h. 83.0 mm; w. 56.0 mm
Housing Material
Transparent Polypropylene
HME material
PP
Filtration method
Electrostatic
Humidity Output
31 mg/H₂O/l @VT 250 ml*
Filtration Efficiency
BFE 99.999%*
VFE 99.999%*
Resistance @ 15 LPM
110 pa
Dead space
32 ml
Tidal Volume Range
90-1500 ml

Connections
(ISO 5356-1)
Weight
18 g
Sampling Port
Luer Lock (ISO 594-1)
Gas monitoring luer port with
retainer strap
Application
Anaesthesia, ICU, Emergency,
Homecare, The filter should be
placed patient side between
the breathing circuit and the
catheter mount
Maximum Duration of use
24 h

Ordering information:

Product Code	Description
9067/710ABSA	Pediatric Electrostatic Filter with Heat Moisture Exchanger (HMEF) Angled Green bulk packed
9067/710BAUA	Pediatric Electrostatic Filter with Heat Moisture Exchanger (HMEF) Angled Green Clinic Clean pouch packed
9067/710BRSA	Pediatric Electrostatic Filter with Heat Moisture Exchanger (HMEF) Angled Green Clinic Clean blister packed
9067/710BSSA	Pediatric Electrostatic Filter with Heat Moisture Exchanger (HMEF) Angled Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units, ABSA version 350 units.

* Independently tested, data available upon request

• Pediatric Electrostatic Filter/HME with gas sampling port



Housing Material
Transparent Polypropylene
HME material
Polyurethane Foam
Filtration method
Electrostatic
Humidity Output
33 mg/H₂O/l @VT 500 ml*
Filtration Efficiency
BFE 99.999% *
VFE 99.999% *
Resistance @ 30 LPM
213 pa
Dead space
42 ml
Tidal Volume
90-1500 ml

Connections
(ISO 5356-1)

Weight

19 g

Sampling Port

Gas monitoring luer port with
retainer strap, Luer Lock (ISO
594-1)

Application

Anaesthesia, ICU, Emergency,
Homecare, The filter should be
placed patient side between
the breathing circuit and the
catheter mount

Maximum Duration of use

24 h

Ordering information:

Product Code

Description

9064/100BAUA

Pediatric Electrostatic Filter with Heat Moisture Exchanger (HMEF) Clear Clinic Clean pouch packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.

* Independently tested, data available upon request



HMEF

HEAT MOISTURE EXCHANGER WITH FILTER

ECO MICRO

• Neonatal Electrostatic micro Filter/HME with gas sampling port, angled connector



Dimensions
h. 59.0 mm; w. 44.0 mm
Housing Material
Transparent Polypropylene
HME material
Polyurethane foam
Filtration method
Electrostatic
Humidity Output
31,5 mg/H₂O/l @ VT 50 ml*
Filtration Efficiency
BFE 99.999% *
VFE 99.99% *
Resistance @ 10 LPM
190pa
Dead space
13 ml
Tidal Volume
> 45 ml

Connections
(ISO 5356-1)
Weight
9 g
Sampling Port
Gas monitoring luer port with retainer strap, Luer Lock (ISO 594-1)
Application
Anaesthesia, ICU, Emergency, Homecare, The filter should be placed patient side between the breathing circuit and the catheter mount
Maximum Duration of use
24 h

Ordering information:

Product Code	Description
9080/710ABSA	Neonatal Heat Moisture Exchanger Filter (HMEF) Angled Green bulk packed
9080/710BAUA	Neonatal Heat Moisture Exchanger Filter (HMEF) Angled Green Clinic Clean pouch packed
9080/710BRSA	Neonatal Heat Moisture Exchanger Filter (HMEF) Angled Green Clinic Clean blister packed
9080/710BSSA	Neonatal Heat Moisture Exchanger Filter (HMEF) Angled Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units, ABSA version 350 units.

* Independently tested, data available upon request

• Neo Heat Moisture Exchanger Filter



Dimensions
h. 46.0 mm; w. 38.0 mm
Housing Material
Transparent Polypropylene
Filtration method
Electrostatic
Humidity Output
31 mg/H₂O/l @ VT 50 ml*
Filtration Efficiency
BFE 99.999% *
VFE 99.99% *
Resistance @ 7.5 LPM
83 pa
Dead space
11 ml
Tidal Volume
> 35 ml

Connections
(ISO 5356-1)
Weight
9 g
Sampling Port
Gas monitoring luer port with retainer strap
Application
Anaesthesia, ICU, Emergency, Homecare, The filter should be placed patient side between the breathing circuit and the catheter mount
Maximum Duration of use
24 h

Ordering information:

Product Code	Description
9080/100BAUA	Neonatal Heat Moisture Exchanger Filter (HMEF) Clear Clinic Clean pouch packed
9080/100BBUA	Neonatal Heat Moisture Exchanger Filter (HMEF) Clear bulk packed
9080/100BTUA	Neonatal Heat Moisture Exchanger Filter (HMEF) Clear Sterile pouch packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request





HME

HEAT MOISTURE EXCHANGER

ECO HME

• Adult HME angled with gas sampling port, angled connector



Dimensions
h. 89.0 mm; w. 78.0 mm
Housing Material
Transparent Polypropylene
HME material
Polyurethane foam
Humidity Output
32 mg/H₂O/l @ VT 500 ml*
Resistance @ 60LPM
130 pa
Dead space
66 ml
Tidal Volume Range
200-1500 ml

Connections
(ISO 5356-1), patient side
22M/15F, machine side
22F/15M
Weight
30 g
Sampling Port
Gas monitoring luer port with
retainer strap
Application
Anaesthesia, ICU, Emergency,
Homecare
Maximum Duration of use
24 h

Ordering information:

Product Code	Description
4333/750ABSA	Adult Heat Moisture Exchanger (HME) Angled Green bulk packed
4333/750BRSA	Adult Heat Moisture Exchanger (HME) Angled Green Clinic Clean blister packed
4333/750BSSA	Adult Heat Moisture Exchanger (HME) Angled Green Sterile blister packed

Packaging: Quantity/Box 50 units. ABSA version Shipping Box 350 units.

* Independently tested, data available upon request

• Adult HME with gas sampling port



Dimensions
h. 77.0 mm; w. 68.5 mm
Housing Material
Transparent Polypropylene
HME material
Polyurethane foam
Humidity Output
31 mg/H₂O @ VT 500 ml*
Resistance @ 60LPM
180 pa
Dead space
53 ml
Tidal Volume Range
150-1500 ml

Connections
(ISO 5356-1)
Weight
27 g
Sampling Port
Gas monitoring luer port with
retainer strap**
Application
Anaesthesia, ICU, Emergency,
Homecare
Maximum Duration of use
24 h

Ordering information:

Product Code	Description
4333/751ABSA	Adult Heat Moisture Exchanger (HME) Green bulk packed
4333/751BAUA	Adult Heat Moisture Exchanger (HME) Green Clinic Clean pouch packed
4333/751BRSA	Adult Heat Moisture Exchanger (HME) Green Clinic Clean blister packed
4333/751BSSA	Adult Heat Moisture Exchanger (HME) Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units. ABSA version 350 units

* Independently tested, data available upon request

** Product is available without a luer lock gas sampling port as code 4333/752BRSA clinic clean blistered packed

• Small Adult midi HME with gas sampling port



Dimensions

h. 81.4 mm; w. 48.1 mm

Housing Material

Transparent Polypropylene

HME material

Polyurethane foam

Humidity Output

31mg/H₂O/l @VT 500 ml *

Resistance @ 30 LPM

23 pa

Dead space

34 ml

Tidal Volume Range

120-1500 ml

Connections

(ISO 5356-1)

Weight

21 g

Sampling Port

Gas monitoring luer port with retainer strap

Application

Anaesthesia, ICU, Emergency, Homecare

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
9064/751ABSA	Small Adult Heat Moisture Exchanger (HME) Green bulk packed
9064/751BRSA	Small Adult Heat Moisture Exchanger (HME) Green Clinic Clean blister packed
9064/751BSSA	Small Adult Heat Moisture Exchanger (HME) Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units. ABSA version 350 units

* Independently tested, data available upon request

• Small Adult midi HME with gas sampling port, angled connector



Dimensions

h. 91.3 mm; w. 56.2 mm

Housing Material

Transparent Polypropylene

HME material

Polyurethane foam

Humidity Output

31 mg/H₂O/l @VT 500 ml *

Filtration Efficiency

N/A

Resistance @ 15 LPM

22 pa

Dead space

42 ml

Tidal Volume Range

120-1500 ml

Connections

(ISO 5356-1)

Weight

21 g

Sampling Port

Gas monitoring luer port with retainer strap

Application

Anaesthesia, ICU, Emergency, Homecare

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
9065/750ABSA	Small Adult Heat Moisture Exchanger (HME) Angled Green bulk packed
9065/750BRSA	Small Adult Heat Moisture Exchanger (HME) Angled Green Clinic Clean blister packed
9065/750BSSA	Small Adult Heat Moisture Exchanger (HME) Angled Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units. ABSA version 350 units

* Independently tested, data available upon request



HME

HEAT MOISTURE EXCHANGER

ECO MINI

• Pediatric mini HME with gas sampling port



Dimensions

h. 73.0 mm; w. 48.0 mm

Housing Material

Transparent Polypropylene

HME material

Polyurethane foam

Humidity Output

31 mg/H₂O/l @VT 250 ml*

Resistance @ 15 LPM

100 pa

Dead space

26 ml

Tidal Volume Range

90-1500 ml

Connections

(ISO 5356-1)

Weight

19 g

Sampling Port

Gas monitoring luer port with retainer strap

Application

Anaesthesia, ICU, Emergency,

Homecare

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
9066/751ABSA	Pediatric Heat Moisture Exchanger (HME) Green bulk packed
9066/751BAUA	Pediatric Heat Moisture Exchanger (HME) Green Clinic Clean pouch packed
9066/751BRSA	Pediatric Heat Moisture Exchanger (HME) Green Clinic Clean blister packed
9066/751BSSA	Pediatric Heat Moisture Exchanger (HME) Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units. ABSA version 350 units

* Independently tested, data available upon request

• Pediatric mini HME with gas sampling port, angled connector



Dimensions

h. 83.0 mm; w. 56.0 mm

Housing Material

Transparent Polypropylene

HME material

Polyurethane foam

Humidity Output

31 mg/H₂O/l @VT 250 ml *

Resistance @ 15 LPM

15 pa

Dead space

31 ml

Tidal Volume Range

90-1500 ml

Connections

(ISO 5356-1)

Weight

18 g

Sampling Port

Gas monitoring luer port with retainer strap

Application

Anaesthesia, ICU, Emergency,

Homecare

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
9067/750ABSA	Pediatric Heat Moisture Exchanger (HME) Angled Green bulk packed
9067/750BAUA	Pediatric Heat Moisture Exchanger (HME) Angled Green Clinic Clean pouch packed
9067/750BRSA	Pediatric Heat Moisture Exchanger (HME) Angled Green Clinic Clean blister packed
9067/750BSSA	Pediatric Heat Moisture Exchanger (HME) Angled Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units. ABSA version 350 units

* Independently tested, data available upon request

ECO MICRO

- Neonatal micro HME with gas sampling port, angled connector



Dimensions

h. 44.2 mm; w. 59.0 mm

Housing Material

Transparent Polypropylene

HME material

Polyurethane foam

Humidity Output

31 mg/H₂O/l @ VT 50 ml*

Resistance @ 10 LPM

20 pa

Dead space

13 ml

Tidal Volume Range

> 45 ml

Connections

(ISO 5356-1) patient side
22M/15F, machine side 15M

Weight

9 g

Sampling Port

Gas monitoring luer port with
retainer strap

Application

Anaesthesia, ICU, Emergency,
Homecare

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
9080/750ABSA	Neonatal Heat Moisture Exchanger Filter (HME) Angled Green Bulk Packed
9080/750BAUA	Neonatal Heat Moisture Exchanger Filter (HME) Angled Green Clinic Clean pouch packed
9080/750BRSA	Neonatal Heat Moisture Exchanger Filter (HME) Angled Green Clinic Clean blister packed
9080/750BSSA	Neonatal Heat Moisture Exchanger Filter (HME) Angled Green Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units. ABSA version 350 units

* Independently tested, data available upon request

CATHETER MOUNTS

• Expandable tube + Gas Sampling Elbow



SPECIFICATIONS

Dead Space MIN/MAX: 30 ml / 75 ml

ISO Connectors: 22F - 22M/15F

Materials

Tube: Polypropylene

Connectors: Styrene or Polypropylene

Ordering information:

Product Code	Description
A620/40-61BAUA	Expandable tube + Gas Sampling Elbow Clinic Clean pouch packed
A620/40-61BTUA	Expandable tube + Gas Sampling Elbow Sterile pouch packed
A620/40-61ABUA	Expandable tube + Gas Sampling Elbow bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.

• Expandable tube + Double Swivel Elbow + Port



SPECIFICATIONS

Dead Space MIN/MAX: 30 ml / 75 ml

ISO Connectors: 22F - 22M/15F

Materials

Tube: Polypropylene

Connectors: Styrene or Polypropylene

Ordering information:

Product Code	Description
A620/42-61BAUA	Expandable tube + Double Swivel Elbow + Port Clinic Clean pouch packed
A620/42-61BTUA	Expandable tube + Double Swivel Elbow + Port Sterile pouch packed
A620/42-61ABUA	Expandable tube + Double Swivel Elbow + Port bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.

• Expandable tube + Standard Elbow



SPECIFICATIONS

Dead Space MIN/MAX: 30 ml / 75 ml
ISO Connectors: 22F - 22M/15F

Materials

Tube: Polypropylene
Connectors: Styrene or Polypropylene

Ordering information:

Product Code	Description
A620/41-61BAUA	Expandable tube + Standard Elbow Clinic Clean pouch packed
A620/41-61BTUA	Expandable tube + Standard Elbow Sterile pouch packed
A620/41-61ABUA	Expandable tube + Standard Elbow bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.

• Gas Sampling Elbow



SPECIFICATIONS

Dead Space MIN/MAX: 5 ml
ISO Connectors: 15M – 22M/15F

Materials

Connectors: Polypropylene

Ordering information:

Product Code	Description
A540BAUA	Gas Sampling Elbow Clinic Clean pouch packed
A540ABUA	Gas Sampling Elbow bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 400 units.

• Standard Elbow



SPECIFICATIONS

Dead Space MIN/MAX: 5 ml
ISO Connectors: 15M – 22M/15F

Materials

Connectors: Polypropylene

Ordering information:

Product Code	Description
A541BAUA	Standard Elbow Clinic Clean pouch packed
A541ABUA	Standard Elbow Bulk Packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 400 units.



CATHETER MOUNTS

• Double Swivel Elbow + port



SPECIFICATIONS

Dead Space MIN/MAX: 5 ml

ISO Connectors: 15M – 22M/15F

Materials

Connectors: Styrene

Ordering information:

Product Code	Description
A542BAUA	Double Swivel Elbow + port Clinic Clean pouch packed
A542BBUA	Double Swivel Elbow + port bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 400 units.

• Expandable tube + Double Swivel Elbow



SPECIFICATIONS

Dead Space MIN/MAX: 30 ml / 75 ml

ISO Connectors: 22F - 22M/15F

Materials

Tube: Polypropylene

Connectors: Styrene or Polypropylene

Ordering information:

Product Code	Description
A620/43-61BAUA	Expandable tube + Double Swivel Elbow Clinic Clean pouch packed
A620/43-61ABUA	Expandable tube + Double Swivel Elbow bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.

• Double Swivel Elbow



SPECIFICATIONS

Dead Space MIN/MAX: 5 ml

ISO Connectors: 15M – 22M/15F

Materials

Tube: Polypropylene

Connectors: Styrene or Polypropylene

Ordering information:

Product Code	Description
A543BAUA	Double Swivel Elbow Clinic Clean pouch packed
A543ABUA	Double Swivel Elbow bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 400 units.

• Expandable tube + Straight Adaptor



SPECIFICATIONS

Dead Space MIN/MAX: 30 ml / 75 ml

ISO Connectors: 22F - 22M/15F

Materials

Tube: Polypropylene

Connectors: Styrene or Polypropylene

Ordering information:

Product Code	Description
A620/60-61BAUA	Expandable tube + Straight Adaptor Clinic Clean pouch packed
A620/60-61BTUA	Expandable tube + Straight Adaptor Sterile pouch packed
A620/60-61ABUA	Expandable tube + Straight Adaptor bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.



ANAESTHETIC BREATHING SYSTEMS, FACE MASKS AND FILTER KIT + MOUNT

- **Breathing System**



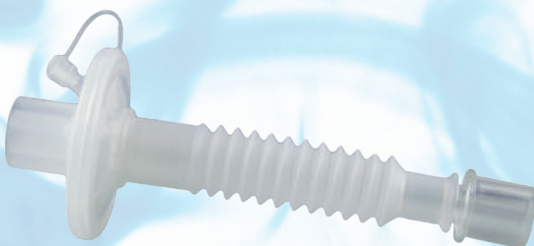
Basic & Mapleson Breathing Systems for Adult & Pediatric, Clinic clean Packed, providing standard ISO connections to Machines and Patient

- **Anaesthetic Face Masks**



Disposable Anesthetic Masks, cushioned and flexible, clear to maximize patient visualization, provided in a complete range of sizes to meet all the clinical requirements and with ISO connection.

- **Electrostatic & Mechanical Kit Filter + Mount**



Wide range of Electrostatic and Mechanical Filters and straight or extendable catheter mount assembled available.







HUMI-TRAQ

• ECO-HME MICRO

**Dimensions**

h. 38.2 mm; w. 19.0 mm

Housing Material

Transparent Polypropylene

HME material

Polyurethane foam

Filtration method

Electrostatic

Humidity Output

32 mg/H₂O/l @VT 25 ml*

Resistance @ 5 LPM

90 pa

Dead space

3 ml

Tidal Volume

> 10 ml

Connections

Patient side 15F, machine side 15M

Weight

3 g

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
9085/751ABSA	Pediatric/Neonatal HME/Low Volume Tracheostomy bulk packed
9085/01BAUA	Pediatric/Neonatal HME/Low Volume Tracheostomy Clinic Clean pouch packed
9085/751BRSA	Pediatric/Neonatal HME/Low Volume Tracheostomy Clinic Clean blister packed
9085/751BSSA	Pediatric/Neonatal HME/Low Volume Tracheostomy Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 400 units, ABSA version 350 units.

* Independently tested, data available upon request - Current data is based upon SLA models so will be subject to variation

• Tracheal HME with Oxygen Connector and Suction Port + Safety valve

**Dimensions**

h. 30.0 mm; w. 36.0 mm

Housing Material

Transparent Polypropylene

HME material

Polyurethane foam

Filtration method

Electrostatic

Humidity Output

27 mg/H₂O/l @ VT 500 ml*

Resistance @ 30 LPM

35 pa

Dead space

8 ml

Tidal Volume Range

> 25 ml

Connections

Patient side 15 F

Weight

4,4 g

Oxygen Connector and Suction Port

Yes **

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
9500/01ABSA	Adult Tracheal HME Clear bulk packed
9500/01BAUA	Adult Tracheal HME Clear Clinic Clean pouch packed
9500/01BRSA	Adult Tracheal HME Clear Clinic Clean blister packed
9500/01BSSA	Adult Tracheal HME Clear Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 400 units, ABSA version 350 units.

* Independently tested, data available upon request

** Product is available without suction port as code 9500/02BAUA clinic clean pouch packed and 9500/02BRSA clinic clean blister packed

• Tracheal HME, T model, with paper media



Dimensions
h. 38.5 mm; w. 28.5 mm
Housing Material
Transparent Polypropylene
HME material
Hygroscopic cellulose
Filtration method
Electrostatic
Humidity Output
23.4 mg/H₂O/l @ VT 500 ml*
Resistance @ 30 LPM
40 pa

Dead space
11 ml
Tidal Volume Range
> 25 ml
Connections
Patient side 15 F
Weight
3,5 g
Maximum Duration of use
24 h

Ordering information:

Product Code	Description
9500/710ABSA	Adult Eco Micro Tracheal HME Clear bulk packed
9500/710BAUA	Adult Eco Micro Tracheal HME Clear Clinic Clean pouch packed
9500/710BRSA	Adult Eco Micro Tracheal HME Clear Clinic Clean blister packed
9500/710BSSA	Adult Eco Micro Tracheal HME Clear Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 400 units. ABSA version 350 units

* Independently tested, data available upon request

• Tracheal HME, T model, with foam media



Dimensions
h. 38.5 mm; w. 28.5 mm
Housing Material
Transparent Polypropylene
Filtration method
Electrostatic
Humidity Output
26.1 mg/H₂O/l @ VT 500 ml*
Resistance @ 30 LPM
46 - 57 pa
Dead space
11 ml

Tidal Volume Range
> 25 ml
Connections
Patient side 15 F
Weight
3,5 g
Maximum Duration of use
24 h

Ordering information:

Product Code	Description
9500/750ABSA	Adult Eco Micro Tracheal HME Transparent bulk packed
9500/750BAUA	Adult Eco Micro Tracheal HME Transparent Clinic Clean pouch packed
9500/750BRSA	Adult Eco Micro Tracheal HME Transparent Clinic Clean blister packed
9500/750BSSA	Adult Eco Micro Tracheal HME Transparent Sterile blister packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 400 units. ABSA version 350 units

* Independently tested, data available upon request



SPIROMETRY

FILTERS & ACCESSORIES



• 2800/22/A539/A508 Electrostatic Spirometry Filter Kit

**Dimensions**

h. 92.65 mm; w. 96.7 mm

Materials of construction

Filter media: Electrostatic

Housing: Polypropylene

Filtration Efficiency

BFE 99.9999%* up to 0,027 μ m

VFE 99.9999%* up to 0,027 μ m

Resistance @ 720 LPM

70 pa

Dead space

75 ml

Weight

45 g excluding nose clip & bite grip

Application

Lung Function Test, for use in Respiratory Pathophysiology, ICU and Rehabilitation, Sports Medicine, Occupational, Medicine

Ordering information:

Product Code	Description
2800/22DAKZAUF	Electrostatic Spirometry Filter Kit clinic clean bag packed

Packaging: Quantity/Box 50 units.

* Independently tested, data available upon request

A range of adaptors are available for the limited number of devices this filter does not fit directly.

• Electrostatic Spirometry Filter with integral mouthpiece



Dimensions

h. 92.65 mm; w. 96.8 mm

Materials of construction

Filter media: Electrostatic

Housing: Polypropylene

Filtration Efficiency

BFE 99.9999%* up to 0,027 µm

VFE 99.9999%* up to 0,027 µm

Resistance @ 720 LPM

70 pa

Effective Filtration Area

60 cm²

Flow rate

30 Lpm

Pirogenicity

< 0,25 EU/ml

Dead space

81.5 ml

Weight

37.2 g

Application

lung function test, for use in Respiratory Pathophysiology, ICU and Rehabilitation, Sports Medicine, Occupational, Medicine

Ordering information:

Product Code	Description
2800/21BAUC	Electrostatic Filter Clinic Clean bag packed
2800/21ABUC	Electrostatic Filter bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.

* Independently tested, data available upon request

A range of adaptors are available for the limited number of devices this filter does not fit directly.

• Electrostatic Spirometry Filter



Dimensions

h. 84.65 mm; w. 96.8 mm

Materials of construction

Filter media: Electrostatic

Housing: Polypropylene

Filtration Efficiency

BFE 99.999%*

VFE 99.999%*

Resistance @ 720 LPM

70 pa

Effective Filtration Area

60 cm²

Flow rate

30 Lpm

Pirogenicity

< 0,25 EU/ml

Dead space

81.5 ml

Weight

37.2 g

Application

Lung Function Test, for use in Respiratory Pathophysiology, ICU and Rehabilitation, Sports Medicine, Occupational Medicine

Ordering information:

Product Code	Description
2800/22BAUF	Electrostatic Spirometry Filter Clinic Clean bag packed
2800/22ABUF	Electrostatic Spirometry Filter bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.

* Independently tested, data available upon request

A range of adaptors are available for the limited number of devices this filter does not fit directly.



SPIROMETRY

FILTERS & ACCESSORIES

2800/21 & 2800/22 fits the following instruments without an adaptor:

Zan	Bodybox
Sensormedics	2200 / 2400 / 2450
Vitalograph	Wedge Bellow-Alpha / Escort Spirometers
Ferraris Medical P.K. Morgan	Autolink - Benchmark / Transflo / USA Transfer Systems
Erich Jaeger GmbH & Co KG	Masterlab / Masterscreen

2800/21 & 2800/22 fits the following instruments using the listed GVS adaptors:

2802/02	Jaeger
2802/03	Gould Pulmonet Closed System / Gould Pulmonet Bodyplethysmograph / V Max Diffusion / V Max Bodyplethysmograph / Sensormedics Autobox / Sensormedics Vmax
2802/04	P.K. Morgan Autolink Diffusion / P.K. Morgan USA-Model C Diffusion / Medisoft Part'n Air 5500 Diffusion / Medisoft Part'n Air 5500 Bodyplethysmograph
2802/05	P.K. Morgan USA-Model C Lung Volume / P.K. Morgan Autolink Lung Volume
2802/06	P.K. Morgan USA-Model C Bodyplethysmograph / P.K. Morgan Autolink Bodyplethysmograph
2802/07	Koko
2802/08	Glenfield
2802/09	Vitagraph / Tamarac / Burdick / CDX
2802/10	Collins CPL / SMC100 / Schiller / DLCO
2802/12	Micromedical Turbine
2802/13	Cosmed Q BOX
2802/15	nSpire CPL / nSpire HD PFT 4000
2802/16	Collins Cybermedic Spinaker Exel / MCG SpiroTube / Spirovit Koko Moe
2802/17	Bomi-Med Air Flow Meter
2802/18	Vitalograph SpiroDoc / Vitalograph Alpha / Vitalograph Alpha Touch / Vitalograph Compact / Vitalograph Gold Standard / Vitalograph Gold Standard Plus / Vitalograph In2itive / Vitalograph Micro / Vitalograph Pneumotrac / SDI Diagnostics SBG / SDI Diagnostics 29-1010 Spirolab / SDI Diagnostics Astra 100 / SDI Diagnostics Astra 200 / SDI Diagnostics Astra 300 / SDI Diagnostics AstraTouch / MIR MiniSpir 910580 / MIR Spirobank 910513 / MIR Spirobank G 910512 / MIR Spirobank II 910575 / MIR SpiroLab III 910650 / MIR SpiroTel MST1
2802/18	MultiSpiro (old) / Keystone (old) / CB / Cosmed Pony / Spirolite 303 / Spirolite 323 / Spirometrics 2014 / Puritan Bennett / S&M / Clement Clarke VM1 / Clement Clarke VMX
2802/20	Cybermedic CM3 / Gould Jones Satellite
2802/22	PB Renaissance / Spirotech / Ohio / Collins Survey
2802/24	Cranlea
2802/25	Brentwood 4000
2802/27	Brentwood / Burdick / Fukuda
2802/28	Clement Clark One Flow

Spiroguard Diameters and Connections

	Female		Male	
	O/D	I/D	O/D	I/D
2800/01	34	30.1	29.22	26.14
2800/02	34	28.18	29.224	26.69
2800/03	34	30.99	29.22	26.69
2800/10	34	30.99	30.02	26.69
2800/15	30.71	25.9	25.02	20
2800/17	29.34	25.86	29.19	26.7
2800/21	34	29.25	Mouthpiece	
2800/22	34	29.25	31.2	26.09
2800/30	29.2	27.2	Mouthpiece	
2800/22	34	29.25	31.2	26.09
2800/30	29.2	27.2	Mouthpiece	

- **Nose Clip**



Dimensions

h. 66.0 mm; w. 41.8 mm

Material

Polypropylene and foam pads

Use

Single-patient use

Application

lung function test

Ordering information:

Product Code	Description
A508BAUA	Disposable Noseclip Clinic Clean pouch packed
A508BPUA	Disposable Noseclip bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 400 units.

- **2802 Adaptor Series**



Spiroguard will fit most diffusion, lung volume and Bodyplethysmograph machines.

A range of 29 adaptors are available where a different diameter connector is required.

Supplied individually upon customer request.

Application

lung function test

Ordering information:

Product Code	Description
2802/01-29AAEA	Adaptors

- **Mouthpiece**



Dimensions

h. 60.0 mm; w. 31.5 mm

Material

White HDPE

Connections

22 mm Male conical connectors, based on internal diameter *

Application

lung function test

Ordering information:

Product Code	Description
A571BAUA	Multi-Functional Medical Mouthpiece Clinic Clean bag packed
A571ABUA	Multi-Functional Medical Mouthpiece bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Fits GVS Spiroguard products – 2800 range



SPIROMETRY

FILTERS & ACCESSORIES



• Flexible Bitegrip

**Dimensions**

ID. 32.0 mm; OD. 36.0 mm

Material

TPE (thermoplastic Elastomer)

Application

lung function test

Ordering information:

Product Code	Description
A539BAUB	Flexible Bite Grip Mouthpiece Clinic Clean bag packed
A539ABUA	Flexible Bite Grip Mouthpiece bulk packed

Packaging: Quantity/Box 50 units.

• Electrostatic Spirometry Filter for Peak Flow Meter

**Dimensions**

h. 96.8 mm; w. 84.65 mm

Materials of construction

Filter media: Electrostatic

Housing: Polypropylene

Filtration Efficiency

BFE 99.9999%*

VFE 99.9999%*

Resistance @ 720 LPM

70 pa

Effective Filtration Area

60 cm²

Flow rate

30 Lpm

Pirogenicity

< 0,25 EU/ml

Dead space

81.5 ml

Weight

37.2 g

Application

lung function test

Ordering information:

Product Code	Description
2800/17BAUF	Electrostatic Spirometry Filter for use with Peak Flow Meter Clinic Clean bag packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.

* Independently tested, data available upon request

The incidence of tuberculosis is on the increase, although diagnosis may only come after a series of tests. The highly infectious nature of TB require protection for staff and other patients during this process. Preventing contamination of Peak Flow meters is an important step in reducing the risk of cross-infection.





INSUFFLATION

FILTERS

LAPARO-SAFE

• INSUFFLATION FILTER •

• Hi Flow rate Insufflation Filter - 8mm hose barbed

**Dimensions**

h. 50.0 mm; w. 64.5 mm

Materials of construction

Filter media: glass microfibre

Housing: Translucent Styrene-Butadiene

Filtration Efficiency

BFE 99.9999% *

VFE 99.9999% *

Filtration Ability

0.027 µm

Effective Filtration Area

24.6 cm²

Connections

8 mm Hose Barbed

Max Operating Temp

60°C

Max Operating Pressure

20 psi

Application

insufflation in laparoscopic surgery

Ordering information:

Product Code	Description
2200/01BAUA	High Flow Rate Insufflation/Gas/Air Filter Clinic Clean bag packed
2200/01ABUA	High Flow Rate Insufflation/Gas/Air Filter bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request

• Hi Flow rate Insufflation Filter - 5mm - 9,5mm hose barbed

**Dimensions**

h. 64.9 mm; w. 64.5 mm

Materials of construction

Filter media: glass microfibre

Housing: Translucent Styrolux

Filtration Efficiency

BFE 99.9999% *

VFE 99.9999% *

Filtration Ability

0.02 µm

Effective Filtration Area

24.6 cm²

Connections

5 mm - 9.5 mm Hose Barbed

Max Operating Temp

60°C

Max Operating Pressure

20 psi

Application

insufflation in laparoscopic surgery

Ordering information:

Product Code	Description
2200/05BAUB	High Flow Insufflation/Gas/Air Filter Clinic Clean pouch packed
2200/05BTUB	High Flow Insufflation/Gas/Air Filter Sterile pouch packed
2200/05ABUB	High Flow Insufflation/Gas/Air Filter bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request

• Hi Flow rate Insufflation Filter (MAX 40 Lpm) - 22F/15M



Dimensions

h. 60.0 mm; w. 49.0 mm

Materials of construction

Filter Media: Electrostatic

100 g

Housing: Styrolux

Filtration Efficiency

VFE 99.999% *

Filtration Ability

0.027 µm

Connections

Filter: 8 mm Barbed/15 mm

Male

Sterile Applications

ETO (Ethylene Oxide) is standard

Application

insufflation in laparoscopic surgery

Ordering information:

Product Code	Description
6421/04BAUA	Laparosafe CO2 Filter Clinic Clean pouch packed
6421/04BATUA	Laparosafe CO2 Filter Sterile pouch packed
6421/04ABUA	Laparosafe CO2 Filter bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.

* Independently tested, data available upon request

• Hi Flow rate Insufflation Filter -11 mm hose barbed



Dimensions

h. 55.0 mm; w. 64.5 mm

Materials of construction

Filter media: glass microfibre

Housing: Translucent Styrolux

Filtration Efficiency

BFE 99.9999% *

VFE 99.9999% *

Filtration Ability

0.027 µm

Effective Filtration Area

24.6 cm²

Connections

11 mm Hose Barbed

Max Operating Temp

60°C

Max Operating Pressure

20 psi

Application

insufflation in laparoscopic surgery

Ordering information:

Product Code	Description
2200/15BAUA	High Flow Insufflation/Gas/Air Filter Clinic Clean pouch packed
2200/15ABUA	High Flow Insufflation/Gas/Air Filter bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request



INSUFFLATION

FILTERS

LAPARO-SAFE

• INSUFFLATION FILTER •

• Insufflation Filter - 8mm barbed/15M

**Dimensions**

h. 54.8 mm; w. 64.5 mm

Materials of construction

Filter media: glass microfibre

Housing: Translucent Styrolux

Filtration Efficiency

BFE 99.9999% *

VFE 99.99% *

Filtration Ability

0.027 μ m

Effective Filtration Area

24.6 cm²

Connections

8 mm Barbed/15 mm Male

Max Operating Temp

60°C

Max Operating Pressure

20 psi

Application

insufflation in laparoscopic surgery

Ordering information:

Product Code	Description
2200/48BAUA	Insufflation Filter Clinic Clean pouch packed
2200/48BTUA	Insufflation Filter Sterile pouch packed
2200/48ABUA	Insufflation Filter bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request

• Hi Flow rate Insufflation Filter - 6mm hose barbed

**Dimensions**

h. 53.8 mm; w. 65.3 mm

Materials of construction

Filter media: glass microfibre

Housing: Translucent Styrolux

Filtration Efficiency

BFE 99.9999% *

VFE 99.9999% *

Filtration Ability

0.027 μ m

Effective Filtration Area

24.6 cm²

Connections

6mm Hose Barbed

Max Operating Temp

60°C

Max Operating Pressure

20 psi

Application

insufflation in laparoscopic surgery

Ordering information:

Product Code	Description
2200/56BAUA	High Flow Insufflation/Gas/Air Filter Clinic Clean pouch packed
2200/56ABUA	High Flow Insufflation/Gas/Air Filter bulk packed
2200/56BTUA	High Flow Insufflation/Gas/Air Filter Sterile pouch packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request

- Gas/Vent Filter - filter media: Glass Microfiber - Connections 8 mm Barbed - Ring color Green



Dimensions

h. 53.7 mm; w. 53.5 mm

Materials of construction

Filter media: glass microfibre

Housing: Polypropylene

Ring colour Green

Filtration Efficiency

BFE 99.999%*

VFE 99.9%*

Filtration Ability

0.027 µm

Effective Filtration Area

14.6 cm²

Connections

8 mm Barbed

Flow

Bi-directional

Sterile Applications

ETO (Ethylene Oxide) is standard

Application

insufflation in laparoscopic surgery

Ordering information:

Product Code	Description
2000/05BTUA	Gas/Air Vent/insufflation filter sterile pouch packed
2000/05BAUA	Gas/Air Vent - Insufflation Filter Clinic Clean pouch packed
2000/05ABUA	Gas/Air Vent - Insufflation Filter bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request



INSUFFLATION

KITS

LAPARO-SAFE

• INSUFFLATION FILTER •

• CO2 Filter Kit



2.5 m PVC tubing with luer lock insufflator and trocar connections. Includes the 2000/05 Bacterial / Viral filter - 8 mm / 8mm

Filter Dimensions

h. 53.7 mm; w. 53.5 mm

Materials of construction

Filter media: glass microfibre
Housing: Polypropylene and green ring.
Tubing: PVC

Filtration Efficiency

BFE 99.999%*

VFE 99.9%*

Filtration Ability

0.027 µm

Effective Filtration Area

14.6 cm²

Connections

Luer Lock both side

Flow

Bi-directional

Sterile Applications

ETO (Ethylene Oxide) is standard

Application

insufflation in laparoscopic surgery

Ordering information:

Product Code	Description
2000/05BAKBAUA	Laparosafe CO2 Filter Kit Clinic Clean pouch packed
2000/05BAKBTUA	Laparosafe CO2 Filter Kit Sterile pouch packed

Packaging: Quantity/Box 40 units.

* Independently tested, data available upon request

• CO2 Filter High Flow Kit (MAX 40 lpm)



2.5 m PVC tubing with luer lock trocar connections and 22F/15M Insufflator connections. Includes the 6421/04 Bacterial / Viral filter.

Filter Dimensions

h. 60.0 mm; w. 49.0 mm

Materials of construction

Filter Media: Electrostatic 100g
Housing: Styrene
Tubing: PVC

Filtration Efficiency

VFE 99.999% *

Filtration Ability

0.027 µm

Filter Connections

Filter: 22F/15M

Sterile Applications

ETO (Ethylene Oxide) is standard

Application

insufflation in laparoscopic surgery

Ordering information:

Product Code	Description
6421/04BGKBAUA	Laparosafe Filter Kit Clinic Clean pouch packed
6421/04BGKBTUA	Laparosafe Filter Kit Sterile pouch packed

Packaging: Quantity/Box 40 units.

* Independently tested, data available upon request

• CO2 Filter Kit



2.5 m PVC tubing with luer lock trocar connections and 15M Insufflator connection. Includes the 2200/48 Bacterial / Viral filter:

Filter Dimensions

h. 54.8 mm; w. 64.5 mm

Materials of construction

Filter media: glass microfibre
Housing: Translucent Styrolux
Tubing: PVC

Filtration Efficiency

BFE 99.9999% *

VFE 99.99% *

Filtration Ability

0.027 μ m

Effective Filtration Area

24.6 cm²

Filter Connection

8 mm Barbed/15mm Male

Max Operating Temp

60°C

Max Operating Pressure

20 psi

Application

insufflation in laparoscopic surgery

Ordering information:

Product Code	Description
2200/48BIKBAUA	Laparosafe CO2 Filter Kit Clinic Clean pouch packed
2200/48BIKBTUA	Laparosafe CO2 Filter Kit Sterile pouch packed

Packaging: Quantity/Box 40 units.

* Independently tested, data available upon request

• CO2 Filter Kit



2.5 m PVC tubing with luer lock trocar connections and flexible elastomeric Insufflator connection. Includes the 2200/01 Bacterial / Viral filter:

Dimensions

h. 50.0 mm; w. 64.5 mm

Materials of construction

Filter media: glass microfibre
Housing: Translucent Styrolux
Tubing: PVC

Filtration Efficiency

BFE 99.9999% *

VFE 99.9999% *

Filtration Ability

0.027 μ m

Effective Filtration Area

24.6 cm²

Connection

Elastomeric Flexible machine side & Luer Lock patient side

Max Operating Temp

60°C

Max Operating Pressure

20 psi

Application

insufflation in laparoscopic surgery

Ordering information:

Product Code	Description
2200/01BCKBAUA	Laparosafe CO2 Filter Kit Clinic Clean pouch packed
2200/01BCKBTUA	Laparosafe CO2 Filter Kit Sterile pouch packed

Packaging: Quantity/Box 40 units.

* Independently tested, data available upon request



LAPARO-FLOW

SUCTION & IRRIGATION KIT

LAPARO-FLO

• SUCTION-IRRIGATION KIT •

• Suction and Irrigation Kit for laparoscopic surgery



Complete single patient use Suction and Irrigation set for use during Laparoscopic surgery. Kit consists of irrigation line with spike to connect to Irrigation fluids and a suction tube with flexible elastomeric connector. The handset allows the surgeon to irrigate or suction at the operation site as clinically required. The kits are available with either a 5mm or 10mm probe dependent upon the clinical requirements.

Complete Suction Irrigation System

Convenient and Ready to use

The system is provided fully assembled and ready for use.

Patient and Staff Protection

The single patient use disposable product minimises the risk of cross contamination to both patients and staff

Variable Probe Sizes

The product is available with both 5mm and 10mm probes to ensure all clinical situations can be addressed.

Ease of use

Both the suction and irrigation is easily controlled by the lightweight ergonomic "Trumpet" valve. The product can be quickly prepared and tested preoperatively. The flexible tubing ensures ease of positioning during the procedure.

Sterile

The system is provided sterile and ready for immediate use. The product is sterilised using ethylene oxide.

Application

laparoscopic surgery

Ordering information:

Product Code	Description
A498ITEA	Laparo Flow Suction/Irrigation Kit 5mm Probe Sterile pouch packed
A499ITEA	Laparo Flow Suction/Irrigation Kit 10mm Probe Sterile pouch packed

Packaging: Quantity/Box 10 units.



SUCTION FILTERS

SUCTION-SAFE

• SUCTION-GAS-AIR FILTER •

• Large 90mm High Flow Suction Filter

**Dimensions**

h. 59.52 mm; w. 90.80 mm

Materials of construction

Filter media: Hydrophobic

PTFE Media Disc

Housing : styrene-butadiene

Filtration Efficiency

BFE 99.9999%*

VFE 99.9999%*

Filtration Ability

0.027 μ m

Effective Filtration Area

24.6 cm²

Connections

11 mm Hose Barbed **

Max Operating Temp

60°C

Max Operating Pressure

20 psi

Sterile Applications

ETO (Ethylene Oxide) is standard

Ordering information:

Product Code	Description
2200/902BAUD	High Flow Rate Suction Filter Clinic Clean bag packed
2200/902ABUD	High Flow Rate Suction Filter bulk packed

Packaging: Quantity/Box 50 units. BAUD version Shipping Box 200 units.

* Independently tested, data available upon request

** Other Connectors are available

• High Flow Rate Suction Filter

**Dimensions**

h. 51.0 mm; w. 64.5 mm

Materials of construction

Filter media: PTFE 1 μ m

Housing : styrene-butadiene

Filtration Efficiency

BFE 99.9999%*

VFE 99.9999%*

Filtration Ability

0.027 μ m

Effective Filtration Area

24.6 cm²

Connections

7mm-8mm Hose Barbed **

Max Operating Temp

60°C

Max Operating Pressure

20 psi

Sterile Applications

ETO (Ethylene Oxide) is standard

Ordering information:

Product Code	Description
2200/36BAUA	High Flow Rate Suction Filter Clinic Clean pouch packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 400 units.

* Independently tested, data available upon request

** Other Connectors are available



SUCTION FILTERS

SUCTION-SAFE

• SUCTION-GAS-AIR FILTER •

• High Flow Suction Filter 8mm Hose Barbed



Dimensions

h. 50.0 mm; w. 64.5 mm

Materials of construction

Filter media: PTFE 1 µm

Housing : styrene-butadiene

Filtration Efficiency

BFE 99.9999%*

VFE 99.9999%*

Filtration Ability

0.027 µm

Effective Filtration Area

24.6 cm²

Connections

8 mm Hose Barbed **

Max Operating Temp

60°C

Max Operating Pressure

20 psi

Sterile Applications

ETO (Ethylene Oxide) is standard

Ordering information:

Product Code	Description
2200/02BAUA	High Flow Rate Suction Filter Clinic Clean bag packed
2200/02ABUA	High Flow Rate Suction Filter bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request

** Other Connectors are available

• High Flow Suction Filter 5-9mm Stepped Hose Barbed



Dimensions

h. 64.9 mm; w. 64.5 mm

Materials of construction

Filter media: PTFE 1 µm

Housing : styrene-butadiene

Filtration Efficiency

BFE 99.9999%*

VFE 99.9999%*

Filtration Ability

0.02 µm

Effective Filtration Area

24.6 cm²

Connections

5 mm - 9.5 mm Stepped Hose Barbed

Max Operating Temp

60°C

Max Operating Pressure

20 psi

Sterile Applications

ETO (Ethylene Oxide) is standard

Ordering information:

Product Code	Description
2200/06BAUB	High Flow Rate Suction Filter – Hydrophobic Membrane Clinic Clean bag packed
2200/06ABUB	High Flow Rate Suction Filter – Hydrophobic Membrane bulk packed

Packaging: Quantity/Box 50 units. BAUB version Shipping Box 300 units.

* Independently tested, data available upon request

- High Flow Suction Filter 11mm tapered barbed both sides



Dimensions

h. 55.0 mm; w. 64.5 mm

Materials of construction

Filter media: PTFE 1 µm

Housing : styrene-butadiene

Filtration Efficiency

BFE 99.9999%*

VFE 99.9999%*

Filtration Ability

0.027 µm

Effective Filtration Area

24.6 cm²

Connections

11mm Tapered Barbed – both sides

Max Operating Temp

60°C

Max Operating Pressure

20 psi

Sterile Applications

ETO (Ethylene Oxide) is standard

Ordering information:

Product Code	Description
2200/16BAUA	High Flow Suction/Gas/Air Filter Clinic Clean pouch packed
2200/16ABUA	High Flow Suction/Gas/Air Filter bulk packed

* Independently tested, data available upon request

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request

- Suction Filter 8mm hose barbed/15M



Dimensions

h. 54.8 mm; w. 64.5 mm

Materials of construction

Filter media: PTFE 1 µm

Housing : styrene-butadiene

Filtration Efficiency

BFE 99.9999%*

VFE 99.9999%*

Filtration Ability

0.027 µm

Effective Filtration Area

24.6 cm²

Connections

8 mm Barbed/15 mm Male

Max Operating Temp

60°C

Max Operating Pressure

20 psi

Sterile Applications

ETO (Ethylene Oxide) is standard

Ordering information:

Product Code	Description
2200/26BAUA	Suction/Gas/Air Filter – Hydrophobic Membrane Clinic Clean pouch packed
2200/26ABUA	Suction/Gas/Air Filter – Hydrophobic Membrane bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request



LAPARO-CLEAR

SMOKE FILTRATION

LAPARO-CLEAR SMOKE FILTRATION & SUCTION KITS

Patient and Staff Protection

The Laparo-Clear allows safe and rapid evacuation of surgical smoke throughout the procedure. It will minimize patients and staffs exposure to potentially harmful smoke.

Removes Chemical Contaminants.

The Laparo-Clear contains an activated carbon membrane that removes volatile compounds from the smoke. This helps to protect against the risk of irritants and carcinogens and reduces the unpleasant odour.

Removes viable bacteria, virus and cells.

The Laparo-Clear removes 99.9999% of bacteria, viruses and cells from surgical smoke reducing the risk of staff acquiring an infection from the smoke.

Remove Particulate Contaminants

Laparo-Clear removes 99.9999% of particles at a diameter of 0.027 mm that would not be retained by surgical masks.

Easy to use.

The Laparo-Clear has a universal rotating luer which allows easy connection to the Trocar. The rotating feature prevents twisting of the tube during connection.

Ready to Use.

Laparo Clear is fully assembled and sterile packed ready for use.

Simple in Use.

The Laparo-Clear uses over pressure in the Peritoneum to evacuate the surgical smoke. Desufflation flow can be adjusted using the Laparo-Clear roller clamp. This allows a constant gas flow to flush the peritoneum during procedures that require extensive electrocautery.

LAPARO-CLEAR

• SMOKE FILTRATION KIT •

• Laparo Clear Smoke Filtration Kit

0.5M PVC tubing with luer lock trocar connections. The kit includes the 2200/47 Bacterial / Viral and carbon smoke extraction filter:



Filter Dimensions

h. 50.0 mm; w. 64.5 mm

Materials of construction

Filter media: glass microfibre with impregnated carbon layer

Housing: Translucent Styrene-Butadiene

Tubing: PVC

Filtration Efficiency

99.9999%*

Filtration Ability

0.027 µm

Effective Filtration Area

24.6 cm²

Connections

Luer Lock

Max Operating Temp

60°C

Max Operating Pressure

20 psi

Application

laparoscopic surgery

Ordering information:

Product Code	Description
2200/47BBKBAUA	Laparo Clear Smoke Filtration Kit with roller clamp Clinic Clean pouch packed
2200/47BBKBTUA	Laparo Clear Smoke Filtration Kit with roller clamp Sterile pouch packed
2200/47BDKBAUA	Laparo Clear Smoke Filtration Kit without roller clamp Clinic Clean pouch packed
2200/47BDKBTUA	Laparo Clear Smoke Filtration Kit without roller clamp Sterile pouch packed

Packaging: Quantity/Box 40 units.

* Independently tested, data available upon request

Patent restrictions apply in certain countries

• High Flow ULPA/Carbon Smoke Filter



Dimensions

h. 50.0 mm; w. 64.5 mm

Materials of construction

Filter media: glass microfibre with impregnated carbon layer

Housing: Translucent Styrene-Butadiene

Tubing: PVC

Filtration Efficiency

99.9999%*

Filtration Ability

0.027 µm

Effective Filtration Area

24.6 cm²

Connections

8 mm Hose Barbed

Max Operating Temp

60°C

Max Operating Pressure

20 psi

Application

laparoscopic surgery

Ordering information:

Product Code	Description
2200/47BAUA	Smoke Filter 8mm / 8mm Base Clinic Clean pouch packed
2200/47ABUA	Smoke Filter 8mm / 8mm Base bulk packed bag packed

Packaging: Quantity/Box 40 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request

Patent restrictions apply in certain countries



CPAP/BPAP

FILTER RANGE

GVS advanced technological skills combined with a multi-faceted team which works closely with clients, ensure the success of well projects.

The result is a range of more than 100 different fine, ultrafine & pollen filters to fit all leading CPAP/BIPAP machines.

GVS Manufacturing Capabilities: Die Cut, Cut & Weld, Cut & Seal, Overmould

Fine

Bacterial/Viral Electrostatic Media



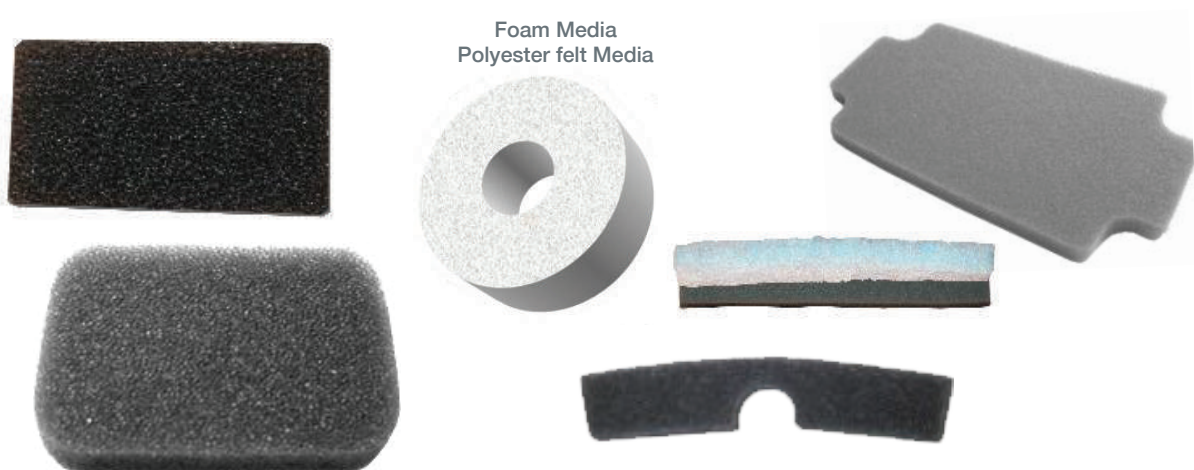
Ultrafine

Bacterial/Viral Electrostatic Media




















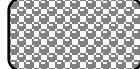

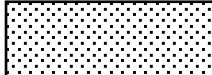




Pollen

Foam Media
Polyester felt Media



*For more information please contact us using application form (www.gvs.com)
stating the brand and model of CPAP / BIPAP machine*

CPAP-BIPAP REPLACEMENT FILTERS

Product	Machine Using	Description	Size	Manufacturer Ref. No	GVS product code
Airox					
	Legendair	Foam+Bacterial Filter	70mm x 60mm 10mm depth	Legendair	7270/371
Breas					
	VIVO series 30/40	Foam Pollen Filter	Approx 85x15.5mm with Tunnel 10mm depth	003563	7270/331
	VIVO series 30/40	Electrostatic filtration media	Approx 85x15.5mm with Tunnel	003564	7270/332
	VIVO series 50/60	Foam Pollen Filter	56 x 56mm x 5mm depth	VIVO series 50/60	7270/497
	VIVO series 50/60	Electrostatic filtration media	56 x 56mm	VIVO series 50/60	7270/496
	iSleep Series	Foam Pollen Filter	66mm x 23mm 5mm depth	004154	7270/407
	iSleep Series	Electrostatic filtration media	66mm x 23mm	004153	7270/399
	PV10	Electrostatic filtration media	67L x 23Wmm	001975	7270/158
	PV100	Electrostatic filtration media	65L x 32Wmm	PV100	7270/162
	PV101/102	Electrostatic filtration media	105L x 22Wmm	PV101/102	7270/159
	VIVO 50/60	Electrostatic filtration media	56 x 56mm	VIVO 50/60	7270/496
	VIVO 50/60	Foam Pollen Filter	56 x 56mm x 5mm depth	VIVO 50/60	7270/497
	PV201/501	Electrostatic filtration media	82 x 82mm	PV201/501	7270/054
	PV401	Electrostatic filtration media	145Lx 40Wmm rounded ends	269026	7270/133
	PV403	Electrostatic filtration media	Breas J Shape	TCF-1-403	7270/106
	PV501	Electrostatic filtration media	82L x 82Wmm	PV501	7270/163
DeVilbiss					
	Sleep cube	Electrostatic filtration media	45L x 32Wmm Radius corners	DV51D-603	7270/508
	Sleep cube	Foam Pollen Filter	45L x 32Wmm Radius corners 6mm depth	DV51D-602	7270/509
	Horizon LT, Auto	Foam Pollen Filter	100Lx 30Wmm 6mm depth	"8000D-602"	7270/030
	Horizon LT, Auto	Electrostatic filtration media	107 x 33mm	"8000D-603"	7270/374
	Sleep Cube	Electrostatic filtration media	45 x 32mm Radius corners	HCFD02-0	7270/453
Fisher&Paykel					
	Sleepstyle 600	Electrostatic filtration media	70 x 24mm	900HC240	7270/375
	Sleepstyle HC200, Sleepstyle 221 / 230	Electrostatic filtration media	129L x 18.3Wmm with cut outs	900HC222	7270/150
	ICON	Synthetic felt	54mm x 20mm 13.83mm depth	9001CON503	7270/499

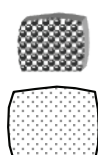


CPAP/BPAP

FILTER RANGE

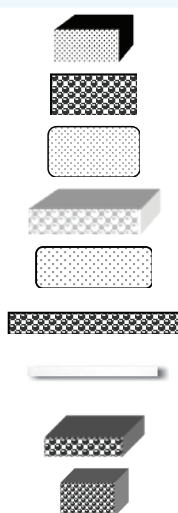
Product	Machine Using	Description	Size	Manufacturer Ref. No	GVS product code
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Healthdyne



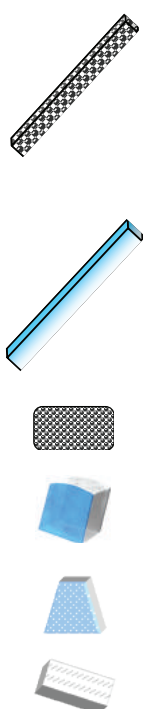
TRANQUILITY QUEST/ BETA/ DELTA	Foam Pollen Filter	116 x 115 x 111mm three curved sides 6mm depth	7301	7270/18
TRANQUILITY QUEST/ BETA/ DEL- TA / CALYPSO	Electrostatic filtra- tion media	115 x 113 x 111mm three curved sides	7302	7270/267

Puritan Bennett - Covidien







Legendair, PB 560, PB 520	Foam+Bacterial Filter	70mm x 60mm 10mm depth	Legendair, PB 560, PB 520	7270/371
Sandman	Foam Pollen Filter	42 x27mm 15mm depth	M-414840-06	7270/450
Sandman	Electrostatic filtra- tion media	42 x 27mm Radius corners	M-414841-07	7270/530
Goodknight 420 / 425	Foam Pollen Filter	48Lx 23Wmm 6mm depth	M-413950-04	7270/188
Goodknight 420 / 425	Electrostatic filtra- tion media	45L x 20Wmm Ra- dius corners	M-413950-04	7270/535
GOODNIGHT 418	Foam Pollen Filter	132L x 21Wmm 8mm depth	M-413560-01	7270/045
GOODNIGHT 418	Electrostatic filtra- tion media	130L x 20Wmm	M-413560-02	7270/502
NPB REM+Ecco,- Soft,Auto, Duo	Foam Pollen Filter	66L x 26Wmm 26mm depth	M-400413-01	7270/118
Knightstar 335	Foam Pollen Filter	160L x 110Wmm 10mm depth	Knightstar 335	7270/149
















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




RESMED S5 / VPAP II / BILEVEL./VPAP III BILEVEL / SUL- LIVAN AUTOSET T / AUTOSET SPIRIT /CS2 AUTOSET HUMIDAIR AND S8 AUTOSET H3I	Foam Pollen Filter	167L x 17Wmm 10mm depth	14907/8	7270/12
RESMED S5 / VPAP II / BILEVEL./VPAP III BILEVEL / SUL- LIVAN AUTOSET T / AUTOSET SPIRIT /CS2 AUTOSET HUMIDAIR AND S8 AUTOSET H3I	Synthetic felt	167 L x 17Wmm	14907/8	7270/13
S6 Resmed/Sullivan	Bacterial Filter	145L x 20Wmm top of curve	21935/21936/21941/21944	7270/44
Autocap/Autoaset	Bacterial Filter	Trapezoidal shape 40mm depth/30mm tapering to 25mm R/ corners		7270/139
S7 /Autopop / Autoaset	Synthetic felt	Trapezoidal shape 40mm depth 30mm tapering to 25mm	S7 R309-758	7270/410
S8	Bacterial Filter - Hypoallergenic series	34.50L x 36.50Wmm tapered to top	S8	7270/343

Product	Machine Using	Description	Size	Manufacturer Ref. No	GVS product code
	S8	Synthetic felt	34.50L x 36.50Wmm tapered to top	R330-733	7270/340
	AUTOSET ACS2	Bacterial Filter - Hypoallergenic series	Overall 48mm x 27.9mm	AUTOSET ACS2	7270/442
	S9	Synthetic felt	53.6 x 35.6mm	36850/ 36851/ 36852/ 36853	7270/471
	S9	Bacterial Filter - Hypoallergenic series	53.6 x 35.6mm	36855/ 36856/ 36857/ 36858	7270/503

Respironics

	BIPAP PRO/DUET LX / HARMONY S/T	Foam Pollen Filter	120L x 60Wmm 10mm depth	622220	7270/32
	BIPAP PRO/DUET LX / HARMONY S/T	Electrostatic filtration media	122L x 82Wmm	622219	7270/33
	SOLO/SOLO LX/ARIA/ VIRTUOSO	Electrostatic filtration media	86L x 71Wmm 19 x 10mm tab	622017	7270/43
	SOLO/SOLO LX/ARIA/ VIRTUOSO	Foam Pollen Filter	85L x 60Wmm 10mm depth	622018	7270/24
	PLV100/101	Electrostatic filtration media	80mmØ	35220	7270/132
	M SERIES / PR System one / REMstar	Foam Pollen Filter	44L x 23Wmm 10mm depth	"139608 1029330 "	7270/351
	M SERIES / PR System one / REMstar	Electrostatic filtration media	45L x 23Wmm plus Tab	139609 1029331	7270/355
	PR System one / REMstar	Electrostatic filtration media	43.9 x 21.8mm	1063096	7270/504
	REMSTAR	Foam Pollen Filter	156L x 130Wmm 12mm depth	362521	7270/02
	REMSTAR	Electrostatic filtration media	141L x 119Wmm Ellipse	362522	7270/01
	ARIA/DUET/ VIRTUOSO/QUARTET	Electrostatic filtration media	94L x 64Wmm one corner cut out	532311	7270/23
	REMPRO / HARMONY 2	Foam Pollen Filter	94L x 40Wmm 9mm depth	1005964	7270/50
	REMPRO / HARMONY 3	Electrostatic filtration media	91L x 40Wmm 16 x 10mm with tab	1005965	7270/135
	BIPAP S AND ST AND STD / SLEEP EASY	Electrostatic filtration media	200L x 125Wmm	302064	7270/05
	BIPAP VISION	Electrostatic filtration media	190Lmm x 77Wmm	582101	7270/136

Weinmann

	SOMNOTRON / SOMNOSMART	Foam Pollen Filter	160L x 27Wmm 10mm depth	23520	7270/19
	SOMNOTRON / SOMNOSMART	Electrostatic filtration media	148L x 78Wmm	23540	7270/105
	SOMNOCONFORT / SOMNOSMART 2	Foam Pollen Filter	68L x 68Wmm 8mm depth	SOMNOCONFORT / SOMNOSMART 2	7270/102
	SOMNOCONFORT / SOMNOSMART 2	Electrostatic filtration media	67.5L x 67.5Wmm	SOMNOCONFORT / SOMNOSMART 2	7270/101
	SOMNOCONFORT 2/ SOMNOBALANCE	Foam Pollen Filter	70L x 30Wmm 8mm depth	SOMNOCONFORT 2/ SOMNOBALANCE	7270/445
	SOMNOCONFORT 2/ SOMNOBALANCE	Electrostatic filtration media	68.5L x 29.5Wmm	SOMNOCONFORT 2/ SOMNOBALANCE	7270/379



HEMOCARE RANGE

OXY-SAFE

• OXYGEN CONCENTRATOR VENT FILTER •

• Oxygen Concentrator HEPA Filter Platinum - Suitable to Invacare



Dimensions

h. 149.16 mm; w. 63.05 mm;
d. 57.5 mm

Materials of construction

Filter media: glass microfibre
Housing: ABS

Filtration Efficiency

BFE 99.9999%*
VFE 99.9999% *

Filtration Ability

0.027 µm

Resistance

Low level due to full media
utilization

Noise Level

Acoustic media reduces noise

Construction

Spaced HEPA media offers
greater surface area as all
media is Used

Connections

3/8" NPT pipe internal thread

Ordering information:

Product Code	Description
3200/03LAUA	Oxygen Concentrator HEPA Filter (long life) Clinic Clean bag packed
3200/03ABUA	Oxygen Concentrator HEPA Filter (long life) Bulk Packed

Packaging: Quantity/Box 100 units.

• Oxygen Concentrator HEPA Filter - Suitable to Respirationics



Dimensions

Height. 115.2 mm; Width 60.9 mm;
Depth. 64.5 mm

Materials of construction

Filter media: glass microfibre
Housing: ABS

Filtration Efficiency

BFE 99.9999%*

Capacity

Volumes up to 100 L/min

Noise Level

Acoustic media reduces noise

Construction

Clear bronze tinted ABS

Connections

3/8" NPT pipe internal thread

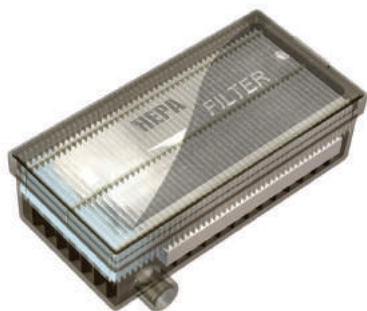
Ordering information:

Product Code	Description
4100/20BAUC	Oxygen Concentrator HEPA Filter Clinic Clean bag packed
4100/20ABUC	Oxygen Concentrator HEPA Filter Bulk Packed

Packaging: Quantity/Box 125 units.

* Independently tested to BS EN13328-1, data available upon request

• Long Life HEPA Filter



Dimensions

h. 121 mm; w. 60. mm; d. 48 mm

Materials of construction

Filter media: glass microfibre

Housing: ABS

Filtration Efficiency

BFE 99.9999%*

VFE 99.9999% *

Weight

76 g

Ordering information:

Product Code	Description
3200/08BAUC	Oxygen Concentrator HEPA Filter (long life) Clinic Clean bag packed

Packaging: Quantity/Box 125 units.

* Independently tested to BS EN13328-1, data available upon request

• Oxygen Concentrator HEPA Filter Suitable to Nidek



Dimensions

Height. 80.2 mm; Width 60.9 mm;

Depth. 69.4 mm

Materials of construction

Filter media: glass microfibre

Housing: ABS

Filtration Efficiency

BFE 99.9999%*

Capacity

Volumes up to 100 L/min

Noise Level

Specially designed noise reducing tube

Construction

Clear bronze tinted ABS

Connections

Customer Machine fitted

Ordering information:

Product Code	Description
4100/30BAUA	Oxygen Concentrator HEPA Filter Clinic Clean bag packed

Packaging: Quantity/Box 125 units.

* Independently tested to BS EN13328-1, data available upon request

• Air Intake/Oxygen Concentration HEPA Filter



Dimensions

Height. 115.2 mm; Width 60.9 mm;

Depth. 64.5 mm

Materials of construction

Filter media: glass microfibre

Housing: ABS

Filtration Efficiency

BFE 99.9999%*

VFE 99.9999%*

Capacity

Volumes up to 100 L/min

Noise Level

Acoustic media reduces noise

Construction

Clear bronze tinted ABS

Connections

Push fit 22 mm

Ordering information:

Product Code	Description
4100/92BAUA	Oxygen Concentrator HEPA Filter clinic clean bag packed

Packaging: Quantity/Box 125 units.

* Independently tested to BS EN13328-1, data available upon request

Bulk packed products available upon request.



HEMOCARE

RANGE

OXY-SAFE

• OXYGEN CONCENTRATOR VENT FILTER •

• Maxi Pleated HEPA Filter with gas sampling port

**Dimensions**

h. 83.8 mm; w. 66 mm

Housing Material

Transparent Polypropylene

Filtration method

Mechanical (HEPA)

Humidity Output

20 mg/H₂O@ VT 500 ml

Filtration Efficiency

BFE 99.9999% *

VFE 99.9999% *

Resistance @ 30 LPM

142 pa

Dead space

67 ml

Tidal Volume Range

200-1500 ml

Connections

patient side 22M/15F

machine side 22F/15M

Weight

52 g

Sampling Port

Gas monitoring luer port with
retainer strap

Ordering information:

Product Code

8222/01BAUA

Description

Pleated Mechanical HEPA Filter Clinic Clean pouch packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.

* Independently tested, data available upon request

• Maxi Pleated HEPA Filter

**Dimensions**

h. 83.8 mm; w. 66 mm

Housing Material

Transparent Polypropylene

Filtration method

Mechanical (HEPA)

Humidity Output

20 mg/H₂O@ VT 500 ml

Filtration Efficiency

BFE 99.9999% *

VFE 99.9999% *

Resistance @ 30 LPM

142 pa

Dead space

67 ml

Tidal Volume Range

200-1500 ml

Connections

22M/15F-22F15M

Weight

52 g

Ordering information:

Product Code

8444/01BAUA

Description

Pleated Mechanical HEPA Filter Clinic Clean pouch packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.

* Independently tested, data available upon request

• Bacteriological Filter/Oxygen Concentrator



Filtration Efficiency

BFE 99.999%*

Materials of construction

Filter media: glass microfibre

Housing: Polypropylene

Ring colour: White

Filtration Ability

0.027 µm

Effective Filtration Area

14.6 cm²

Connections

8mm Barbed

Flow

Bi-directional

Ordering information:

Product Code	Description
2000/01BAUA	Gas/Air Vent Filter/Oxygen Concentrator Clinic Clean bag packed
2000/01ABUA	Gas/Air Vent Filter/Oxygen Concentrator Bulk Packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request

• Gas/Vent Filter



Dimensions

h. 59.0 mm; w. 53.5 mm

Materials of construction

Filter media: glass microfibre

Housing : Polypropylene and white ring

Filtration Efficiency

BFE 99.999%*

VFE 99.9999%*

Filtration Ability

0.027 µm

Effective Filtration Area

14.6 cm²

Ring Colour

White

Connections

5.9mm to 8mm Hose Barbed

Flow

Bi-directional

Ordering information:

Product Code	Description
2000/06BAUA	Gas/Vent Filter/Oxygen Concentrator Clinic Clean pouch packed
2000/06ABUA	Gas/Vent Filter/Oxygen Concentrator Bulk Packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request



HOMECARE RANGE

• Ventilator Filter

**Dimensions**

h. 80.26 mm; w. 32.15 mm

Materials of construction

Filter media: glass microfiber

Housing: Polypropylene

Filtration Efficiency

99.97%

Filtration Ability

0.3 µm DOP

Resistance @ 30 LPM (clean filter)

0.93 cm H₂O

Construction

Light grey plastic; radial pleats

Ordering information:**Product Code****Description**

3500/01BAUA

Refill Filter for Achieva Ventilator clinic clean pouch packed

Packaging: Quantity/Box 200 units.

* Independently tested To BS EN13328-1, data available upon request

• Electrostatic Filter - 22M/15F – 22F

**Dimensions**

h. 67.2 mm; w. 68.5 mm

Housing Material

Transparent Polypropylene

Filtration method

Electrostatic

Filtration Efficiency

BFE 99.999% *

VFE 99.999% *

Resistance @ 30 LPM

60 pa

Dead space

30 ml

Tidal Volume

90-1500 ml

Connections

22M/15F-22F

Weight

23 g

Maximum Duration of use

24 h

Ordering information:**Product Code****Description**

4222/03BAUA

Electrostatic Filter Clinic Clean pouch packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.

* Independently tested, data available upon request

• Pleated Filter - 22M/22F



Dimensions

h. 81.5 mm; w. 68.5 mm

Housing Material

Transparent Polypropylene

Filtration method

Electrostatic

Humidity Output

25 mg/H₂O/l @ VT 500 ml

Filtration Efficiency

BFE 99.9999% *

VFE 99.9999% *

Resistance @ 30 LPM

140 pa

Dead space

55 ml

Tidal Volume

150-1500 ml

Connections

22M-22F

Weight

40 g

Maximum Duration of use

24 h

Ordering information:

Product Code	Description
4020/03BAUA	Pleated Mechanical HEPA Filter pouch packed
4020/03ABSA	Pleated Mechanical HEPA Filter bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.

* Independently tested, data available upon request



VENT FILTERS

VENT-SAFE

• GAS-AIR VENT FILTER •

• Gas/Vent Filter

**Dimensions**

h. 53.7 mm; w. 53.5 mm

Materials of construction

Filter media: glass microfibre

Housing : Polypropylene and white ring

Filtration Efficiency

BFE 99.999%*

Filtration Ability

0.027 µm

Effective Filtration Area

14.6 cm²

Ring Colour

White

Connections

8 mm Barbed

Flow

Bi-directional

Autoclavable

N/A

Ordering information:

Product Code	Description
2000/01BAUA	Gas Vent Filter/Oxygen Concentrator Clinic Clean pouch packed
2000/01ABUA	Gas Vent Filter/Oxygen Concentrator bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request

• Gas/Vent Filter

**Dimensions**

h. 53.7 mm; w. 53.5 mm

Materials of construction

Filter media: glass microfibre

Housing : Polypropylene and blue ring

Filtration Efficiency

BFE 99.999%*

VFE 99.9999%*

Filtration Ability

0.027 µm

Effective Filtration Area

14.6 cm²

Ring Colour

Blue

Connections

8 mm Barbed

Flow

Bi-directional

Autoclavable

5 – 10 times

Ordering information:

Product Code	Description
2000/02BAUA	Gas/Vent Filter Clinic Clean pouch packed
2000/02ABUA	Gas/Vent Filter bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request

• Gas/Vent Filter



Dimensions

h. 59.0 mm; w. 53.5 mm

Materials of construction

Filter media: glass microfibre

Housing: Polypropylene and white ring

Filtration Efficiency

BFE 99.999%*

VFE 99.9999%*

Filtration Ability

0.027 µm

Effective Filtration Area

14.6 cm²

Ring Colour

White

Connections

5.9 mm to 8 mm Hose Barbed

Flow

Bi-directional

Ordering information:

Product Code	Description
2000/06BAUA	Gas/Vent Filter/Oxygen Concentrator Clinic clean pouch packed
2000/06ABUA	Gas/Vent Filter/Oxygen Concentrator bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request

• Gas/Vent Filter



Dimensions

h. 59.0 mm; w. 53.5 mm

Materials of construction

Filter media: glass microfibre

Housing : Polypropylene and blue ring

Filtration Efficiency

BFE 99.999%*

Filtration Ability

0.02 µm

Effective Filtration Area

14.6 cm²

Ring Colour

Blue

Connections

5.9 mm to 8 mm Hose Barbed

Flow

Bi-directional

Autoclavable

5 – 10 times

Ordering information:

Product Code	Description
2000/07BAUA	Gas/Vent Filter/Oxygen Concentrator Clinic Clean pouch packed
2000/07ABUA	Gas/Vent Filter/Oxygen Concentrator bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request



VENT FILTERS

VENT-SAFE

• GAS-AIR VENT FILTER •

• Gas/Vent Filter

**Dimensions**

h. 59.0 mm; w. 53.5 mm

Materials of construction

Filter media: glass microfiber
Housing : Polypropylene and green ring

Filtration Efficiency

BFE 99.999%*

VFE 99.9999%*

Filtration Ability

0.027 µm

Effective Filtration Area

14.6 cm²

Ring Colour

Green

Connections

5.9 mm to 8 mm Hose Barbed

Flow

Bi-directional

Autoclavable

N/A

Ordering information:

Product Code	Description
2000/08BAUA	Gas/Vent Filter/Oxygen Concentrator Clinic Clean pouch packed
2000/08ABUA	Gas/Vent Filter/Oxygen Concentrator bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request

• Gas/Vent Filter

**Dimensions**

h. 53.7 mm; w. 53.5 mm

Materials of construction

Filter media: glass microfiber
Housing : Polypropylene and green ring

Filtration Efficiency

BFE 99.999%*

VFE 99.9%*

Filtration Ability

0.027 µm

Effective Filtration Area

14.6 cm²

Ring Colour

Green

Connections

8 mm Barbed Connections

Flow

Bi-directional

Sterile Applications

ETO (Ethylene Oxide) is standard

Ordering information:

Product Code	Description
2000/05BAUA	Gas/Vent Filter / Insufflation Filter Clinic clean pouch packed
2000/05ABUA	Gas/Vent Filter / Insufflation Filter bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request

• Gas/Vent Filter



Dimensions

h. 53.7 mm; w. 53.5 mm

Materials of construction

Filter media: glass microfibre
Housing : Polypropylene and dark blue ring

Filtration Efficiency

BFE 99.99%*

VFE 99.999%*

Filtration Ability

0.027 µm

Effective Filtration Area

22 cm²

Ring Colour

Dark Blue

Connections

8 mm Barbed

Flow

Bi-directional

Autoclavable

N/A

Ordering information:

Product Code	Description
2000/09BAUA	Gas/Vent Filter/Oxygen Concentrator Clinic Clean pouch packed
2000/09ABUA	Gas/Vent Filter/Oxygen Concentrator bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request

• Vent/insufflation Filter



Dimensions

h. 21.5 mm; w. 27.4 mm

Materials of construction

Filter media: PTFE

Housing : PVC

Connections

25 mm Female Luer Lock

Straight Male Luer Lock

Ordering information:

Product Code	Description
2000/25ABUA	Vent/Insufflation Filter bulk packed

Packaging: Quantity/Box 1000 units.

* Independently tested, data available upon request



VENT FILTERS

VENT-SAFE

• GAS-AIR VENT FILTER •

• Vent Filter - PTFE Media - Straight Male Connectors

**Dimensions**

w. 23,5 mm; h. 23.5 mm

Materials of construction

Filter media: PVDF

Housing : PVC DEHP Free

Filtration Efficiency

100%

Connections

Inlet: MLL Male Luer Lock

Outlet: FLL Female Luer Lock

Ordering information:

Product Code	Description
TP100ACOG002AA00	Vent Filter bulk packed

Packaging: Quantity/Box 4000 units.

* Independently tested, data available upon request

• Vent Filter - PTFE Media - Straight Male Connectors

**Dimensions**

h. 27.2 mm; w. 24.6 mm

Materials of construction

Filter media: 0.2 µm PTFE

Housing : PVC

Connections

Straight Male Connectors

Ordering information:

Product Code	Description
2000/34ABUA	Vent Filter bulk packed

Packaging: Quantity/Box 1000 units. * Independently tested, data available upon request

• Autoclave Filter



Dimensions

h. 25 mm; w. 54.0 mm

Materials of construction

Filter media: GMF

Housing: Polypropylene

Applications

For use in W&H sterilizers

Filtration Efficiency

BFE 99.999%*

VFE 99.9999%*

Effective Filtration Area

14.6 cm²

Ring Colour

White

Connections

1/8 NPT Thread Connector

Water Breakthrough

750 mm of head pressure

Max Operating Pressure

60 psi

Flow

Bi-directional

Compliance

PrEN 13060

Bio-safe materials of construction - meet USP Class V1

Ordering information:

Product Code	Description
2000/39BAUA	Gas/Air Vent Filter Clinic clean pouch packed
2000/39ABUA	Gas/Air Vent Filter Bulk Packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request

• Autoclave Filter



Dimensions

h. 33.5 mm; w. 54.0 mm

Materials of construction

Filter media: PTFE

Housing : Polypropylene

Applications

For use in W&H sterilizers

Filtration Efficiency

BFE 99.999%*

VFE 99.9999%*

Effective Filtration Area

14.6 cm²

Ring Colour

White

Connections

1/8 NPT Thread Connector

Water Breakthrough

750mm of head pressure

Max Operating Pressure

60 psi

Flow

Bi-directional

Compliance

PrEN 13060

Bio-safe materials of construction - meet USP Class V1

Ordering information:

Product Code	Description
2000/35BAUA	Gas/Air Vent Filter Clinic clean pouch packed
2000/35ABUA	Gas/Air Vent Filter bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 300 units.

* Independently tested, data available upon request



MULTI VENTILATOR FILTER

FOR PORTABLE PATIENT VENTILATOR

MULTI VENT

• PORTABLE VENTILATOR FILTER •

• Multi Ventilator Filter



DIRECTION OF
FLOW

Media
High Efficiency Hydrophobic
Paper
Filtration Efficiency
BFE 99.9999%
VFE 99.9999%
Efficiency at 0.3 µm
99.97%
Resistance @ 100 LPM
<2.0 cm H₂O

**Casing in white disposable
K-resin**
Dead space
N/A
Tidal Volume
N/A
Humidity Output
N/A
Connections
22M Barbed at both ends

Ordering information:

Product Code	Description
3000/03DAUA	Multi Ventilator Filter clinic clean bag packed

Packaging: Quantity/Box 12 units.

• Multi Ventilator Filter



DIRECTION OF
FLOW

Media
High Efficiency Hydrophobic
Paper
Filtration Efficiency
BFE 99.9999%
VFE 99.9999%
Efficiency at 0.3 µm
99.97%
Resistance @ 100 LPM
<2.0 cm H₂O

**Casing in white disposable
K-resin**
Dead space
N/A
Tidal Volume
N/A
Humidity Output
N/A
Connections
Tapered Male at both ends

Ordering information:

Product Code	Description
3000/04DAUA	Multi Ventilator Filter clinic clean bag packed

Packaging: Quantity/Box 12 units.



HEPA FILTER

REUSABLE

MEDIPLATEAT

• REUSABLE HEPA FILTER •

• Reusable Hepa Filter - 22M/15F-22F/15M



Dimensions

h.94.8 mm; w. 64.7 mm

Materials of construction

Filter Housing: Polycarbonate

media: Hydrophobic Media

Humidity Output

N/A

Filtration Efficiency

BFE 99.999% *

VFE 99.999% *

Resistance @ 60 LPM

<350 pa

Dead space

99 ml

Tidal Volume

Not specified

Connections

22M/15F – 22F/15M

Weight

40 g

Gas Monitoring Luer Port

No

Autoclavable

5 times

Ordering information:

Product Code	Description
1200/08HAUB	Reusable Hepa Filter clinic clean bag packed

Packaging: Quantity/Box 50 units. HAUB version Shipping Box 300 units.

* Independently tested, data available upon request

• Reusable Hepa Filter - 22M/15F



Dimensions

H79 mm; w. 64.7 mm

Materials of construction

Filter media: hydrophobic

radial pleat

Humidity Output

N/A

Filtration Efficiency

BFE 99.999% *

VFE 99.999% *

Resistance @ 60 LPM

<350 pa

Dead space

N/A

Tidal Volume

N/A

Connections

22M/15F

Weight

38 g

Gas Monitoring Luer Port

None

Autoclavable

5 times

Ordering information:

Product Code	Description
1200/20HAUA	Reusable Hepa Filter Clinic Clean bag packed

Packaging: Quantity/Box 50 units. HAUA version Shipping Box 200 units.

* Independently tested, data available upon request



ELECTROSTATIC FILTERS

FOR NEBULIZER THERAPY MACHINE

MEDGUARD

• FILTER FOR NEBULIZER THERAPY MACHINE •

• Filter for nebulizer therapy machine – 22F/22M

**Dimensions**

h.96 mm; w. 69 mm

Materials of construction

Filter media: electrostatic

Housing : Clear Styrene

Filtration Ability

0.027 µm

Filtration Efficiency

BFE 99.999% *

VFE 99.999% *

Resistance @ 30 LPM

40 pa

Connections

22F/22M

Weight

23.5 g

Ordering information:

Product Code	Description
1420/01BAUA	Filter for nebulizer therapy machine Clinic Clean pouch packed
1420/01ABUA	Filter for nebulizer therapy machine bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.

* Independently tested, data available upon request

• Filter for nebulizer therapy machine – 15F/22M

**Dimensions**

h.96 mm; w. 69 mm

Materials of construction

Filter media: electrostatic

Housing : Clear Styrene

Filtration Ability

0.027 µm

Filtration Efficiency

BFE 99.999% *

VFE 99.999% *

Resistance @ 30 LPM

40 pa

Connections

15F/22M

Weight

23.5 g

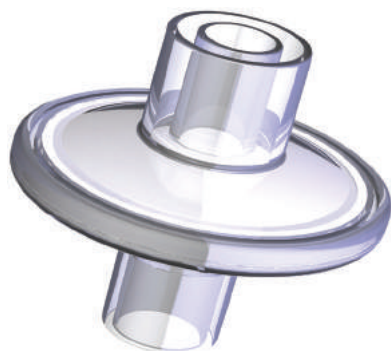
Ordering information:

Product Code	Description
1420/03BAUA	Filter for nebulizer therapy machine Clinic Clean pouch packed
1420/03ABUA	Filter for nebulizer therapy machine bulk packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.

* Independently tested, data available upon request

- Bacterial/Viral filter for nebulizer therapy machine



Filtration Efficiency
BFE 99.999% *
VFE 99.999% *
Resistance @ 60LPM
<143 pa
Dead space
47 ml
Connections
22M-15F/ 22F-15M
Weight
28 g

Ordering information:

Product Code	Description
4444/01BAUA	Bacterial/Viral filter for nebulizer therapy machine Clinic Clean pouch packed

Packaging: Quantity/Box 50 units. BAUA version Shipping Box 200 units.



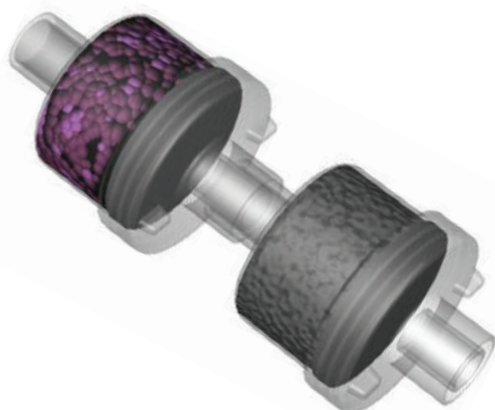
NITRIC OXIDE

SCAVENGER FILTER

SCA-NiO_x

• NITRIC OXIDE SCAVENGER FILTERS •

• Nitric oxide scavenger filter Carbon disk + Electrostatic media & CONVERSION MIX



Materials of construction

Filter media: electrostatic

Housing : Clear Styrene

Filtration Efficiency

BFE 99.999% *

VFE 99.999% *

Connections

22M/15F-22F/15M

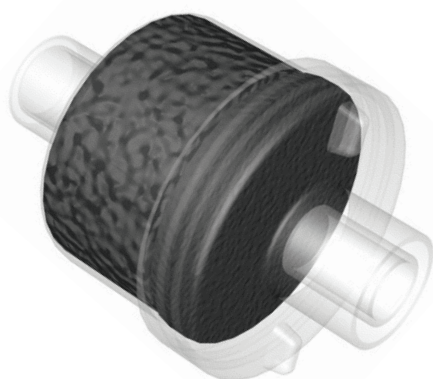
Ordering information:

Product Code	Description
1898/01BAUB	Nitric oxide scavenger filter Carbon disk + Electrostatic media & CONVERSION MIX Clinic Clean pouch packed

Packaging: Quantity/Box 10 units. BAUB version Shipping Box 80 units.

* Independently tested, data available upon request

• Nitric oxide scavenger filter Carbon disk + Electrostatic media



Dimensions

h.94.8 mm; w. 64.7 mm

Materials of construction

Filter: carbon disc and electrostatic media

Housing : Clear Styrene

Filtration Efficiency

BFE 99.999% *

VFE 99.999% *

Connections

22M/15F-22F/15M

Weight

72 g

Ordering information:

Product Code	Description
1898/03BAUB	Nitric oxide scavenger filter Carbon disk + Electrostatic media Clinic Clean pouch packed

Packaging: Quantity/Box 50 units. BAUB version Shipping Box 200 units.

* Independently tested, data available upon request



CONNECTOR SERIES

• Connector A544



Material
Styrolux
Connections
22F ISO Connector
10M Tube Connector

Ordering information:

Product Code	Description
A544ABUB	Connector A544 bulk packed

Packaging: Quantity/Box 1500 units.

• Connector A552



Material
Clear SBC
Connections
22F ISO Connector
8M Tube Connector

Ordering information:

Product Code	Description
A552ABUA	Connector A552 bulk packed

Packaging: Quantity/Box 1500 units.

• Connector A515



Material
Styrolux
Connections
22M ISO Connector
10M Tube Connector

Ordering information:

Product Code	Description
A515ABUB	Connector A515 bulk packed

Packaging: Quantity/Box 1500 units.

• Connector A587



Material
Polypropylene
Connections
22 mm Male to Male

Ordering information:

Product Code	Description
A587ABUA	Connector A587 bulk packed

Packaging: Quantity/Box 1500 units.



MEDICAL AIR FILTRATION

CODE INDEX

CODE	PAGE				
1200/08HAUB	75	2200/48BIKBTUA	49	4222/01BAUA	12
1200/20HAUA	75	2200/48BTUA	46	4222/03BAUA	13, 64
1420/01ABUA	76	2200/56ABUA	46	4222/700ABSA	12
1420/01BAUA	76	2200/56BAUA	46	4222/700BAUA	12
1420/03ABUA	76	2200/56BTUA	46	4222/700BRSA	12
1420/03BAUA	76	2200/902ABUD	51	4222/700BSSA	12
1898/01BAUB	78	2200/902BAUD	51	4222/701ABSA	12
1898/03BAUB	78	2800/01	40	4222/701BRSA	12
2000/01ABUA	63, 68	2800/02	40	4222/701BSSA	12
2000/01BAUA	63, 68	2800/03	40	4222/702ABSA	13
2000/02ABUA	68	2800/10	40	4222/702BAUA	13
2000/02BAUA	68	2800/15	40	4222/702BRSA	13
2000/05ABUA	47, 70	2800/17	40	4222/702BSSA	13
2000/05BAKBAUA	48	2800/17BAUF	42	4222/703ABSA	13
2000/05BAKBTUA	48	2800/21	40	4222/703BRSA	13
2000/05BAUA	47, 70	2800/21ABUC	39	4222/703BSSA	13
2000/05BTUA	47	2800/21BAUC	39	4244/01BAUA	15
2000/06ABUA	63, 69	2800/22	40	4244/01BTUA	15
2000/06BAUA	63, 69	2800/22ABUF	39	4244/700ABSA	15
2000/07ABUA	69	2800/22BAUF	39	4244/700BAUA	15
2000/07BAUA	69	2800/22DAKZAUF	38	4244/700BRSA	15
2000/08ABUA	70	2800/30	40	4244/700BSSA	15
2000/08BAUA	70	2802/01-29AAEA	41	4244/701ABSA	15
2000/09ABUA	71	2802/02	40	4244/701BRSA	15
2000/09BAUA	71	2802/03	40	4244/701BSSA	15
2000/25ABUA	71	2802/04	40	4244/702ABSA	16
2000/34ABUA	72	2802/05	40	4244/702BAUA	16
2000/35ABUA	73	2802/06	40	4244/702BRSA	16
2000/35BAUA	73	2802/07	40	4244/702BSSA	16
2000/39ABUA	73	2802/08	40	4244/711ABSA	22
2000/39BAUA	73	2802/09	40	4244/711BAUA	22
2200/01ABUA	43	2802/10	40	4244/711BRSA	22
2200/01BAUA	43	2802/12	40	4244/711BSSA	22
2200/01BCKBAUA	49	2802/13	40	4333/01BAUA	20
2200/01BCKBTUA	49	2802/15	40	4333/711ABSA	20
2200/02ABUA	52	2802/16	40	4333/711BRSA	20
2200/02BAUA	52	2802/17	40	4333/711BSSA	20
2200/05ABUB	43	2802/18	40	4333/750ABSA	28
2200/05BAUB	43	2802/20	40	4333/750BRSA	28
2200/05BTUB	43	2802/22	40	4333/750BSSA	28
2200/06ABUB	52	2802/24	40	4333/751ABSA	28
2200/06BAUB	52	2802/25	40	4333/751BAUA	28
2200/15ABUA	44	2802/27	40	4333/751BRSA	28
2200/15BAUA	44	2802/28	40	4333/751BSSA	28
2200/16ABUA	53	3000/03DAUA	74	4333/761ABSA	20
2200/16BAUA	53	3000/04DAUA	74	4333/761BAUA	20
2200/26ABUA	53	3200/03ABUA	60	4333/761BRSA	20
2200/26BAUA	53	3200/03LAUA	60	4333/761BSSA	20
2200/36BAUA	51	3200/08BAUC	61	4444/01BAUA	77
2200/47ABUA	59	3500/01BAUA	64	6421/04ABUA	44
2200/47BAUA	59	4020/03ABSA	65	6421/04BATUA	44
2200/47BBKBAUA	59	4020/03BAUA	65	6421/04BAUA	44
2200/47BBKBTUA	59	4020/06ABSA	16	6421/04BGKBAUA	48
2200/47BDKBAUA	59	4020/06BAUA	16	6421/04BGKBTUA	48
2200/47BDKBTUA	59	4020/06BRSA	16	7270/01	57
2200/48ABUA	46	4100/20ABUC	60	7270/02	57
2200/48BAUA	46	4100/20BAUC	60	7270/05	57
2200/48BIKBAUA	49	4100/30BAUA	61	7270/12	56
		4100/921BAUA	61	7270/13	56

7270/18	56	9064/711BRSA	23	A508BAUA	41
7270/19	57	9064/711BSSA	23	A508BPUA	41
7270/23	57	9064/751ABSA	29	A515ABUB	79
7270/24	57	9064/751BRSA	29	A539ABUA	42
7270/030	55	9064/751BSSA	29	A539BAUB	42
7270/32	57	9065/710ABSA	23	A540ABUA	33
7270/33	57	9065/710BAUA	23	A540BAUA	33
7270/43	57	9065/710BRSA	23	A541ABUA	33
7270/44	56	9065/710BSSA	23	A541BAUA	33
7270/045	56	9065/750ABSA	29	A542BAUA	34
7270/50	57	9065/750BRSA	29	A542BBUA	34
7270/054	55	9065/750BSSA	29	A543ABUA	35
7270/101	57	9066/701ABSA	18	A543BAUA	35
7270/102	57	9066/701BAUA	18	A544ABUB	79
7270/105	57	9066/701BRSA	18	A552ABUA	79
7270/106	55	9066/701BSSA	18	A571ABUA	41
7270/118	56	9066/711ABSA	24	A571BAUA	41
7270/132	57	9066/711BAUA	24	A587ABUA	79
7270/133	55	9066/711BRSA	24	A620/40-61ABUA	32
7270/135	57	9066/711BSSA	24	A620/40-61BAUA	32
7270/136	57	9066/751ABSA	30	A620/40-61BTUA	32
7270/139	56	9066/751BAUA	30	A620/41-61ABUA	33
7270/149	56	9066/751BRSA	30	A620/41-61BAUA	33
7270/150	55	9066/751BSSA	30	A620/41-61BTUA	33
7270/158	55	9067/700ABSA	18	A620/42-61ABUA	32
7270/159	55	9067/700BRSA	18	A620/42-61BAUA	32
7270/162	55	9067/700BSSA	18	A620/42-61BTUA	32
7270/163	55	9067/710ABSA	24	A620/43-61ABUA	34
7270/188	56	9067/710BAUA	24	A620/43-61BAUA	34
7270/267	56	9067/710BRSA	24	A620/60-61ABUA	35
7270/331	55	9067/710BSSA	24	A620/60-61BAUA	35
7270/332	55	9067/750ABSA	30	A620/60-61BTUA	35
7270/340	56	9067/750BAUA	30	FR003AKRET200A00	21
7270/343	56	9067/750BRSA	30	FR003AKRET200D00	21
7270/351	57	9067/750BSSA	30	FR003SKRET200A00	21
7270/355	57	9080/01BAUA	19	FR003SKRET200D00	21
7270/371	55, 56	9080/01BBUA	19	FR004AKRET200A00	14
7270/374	55	9080/01BTUA	19	FR004AKRET200D00	14
7270/375	55	9080/100BAUA	26	FR004SKRET200A00	14
7270/379	57	9080/100BBUA	26	FR004SKRET200D00	14
7270/399	55	9080/100BTUA	26	TP100ACOG002AA00	72
7270/407	55	9080/700ABSA	19		
7270/410	56	9080/700BAUA	19		
7270/442	57	9080/700BRSA	19		
7270/445	57	9080/700BSSA	19		
7270/450	56	9080/710ABSA	26		
7270/453	55	9080/710BAUA	26		
7270/471	57	9080/710BRSA	26		
7270/496	55	9080/710BSSA	26		
7270/497	55	9080/750ABSA	31		
7270/499	55	9080/750BAUA	31		
7270/502	56	9080/750BRSA	31		
7270/503	57	9080/750BSSA	31		
7270/504	57	9085/01BAUA	36		
7270/508	55	9085/751ABSA	36		
7270/509	55	9085/751BRSA	36		
7270/530	56	9500/01ABSA	36		
7270/535	56	9500/01BAUA	36		
8222/01BAUA	62	9500/01BRSA	36		
8444/01BAUA	62	9500/01BSSA	36		
8866/01ABSA	14	9500/710ABSA	37		
8866/01BASA	14	9500/710BAUA	37		
8866/01BAUA	14	9500/710BRSA	37		
8866/01BRSA	14	9500/710BSSA	37		
8866/100ABSA	21	9500/750ABSA	37		
8866/100BAUA	21	9500/750BAUA	37		
8866/100BRSA	21	9500/750BRSA	37		
8866/100BSSA	21	9500/750BSSA	37		
9064/100BAUA	25	9898/01BAUA	17		
9064/711ABSA	23	A498ITEA	50		
9064/711BAUA	23	A499ITEA	50		



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