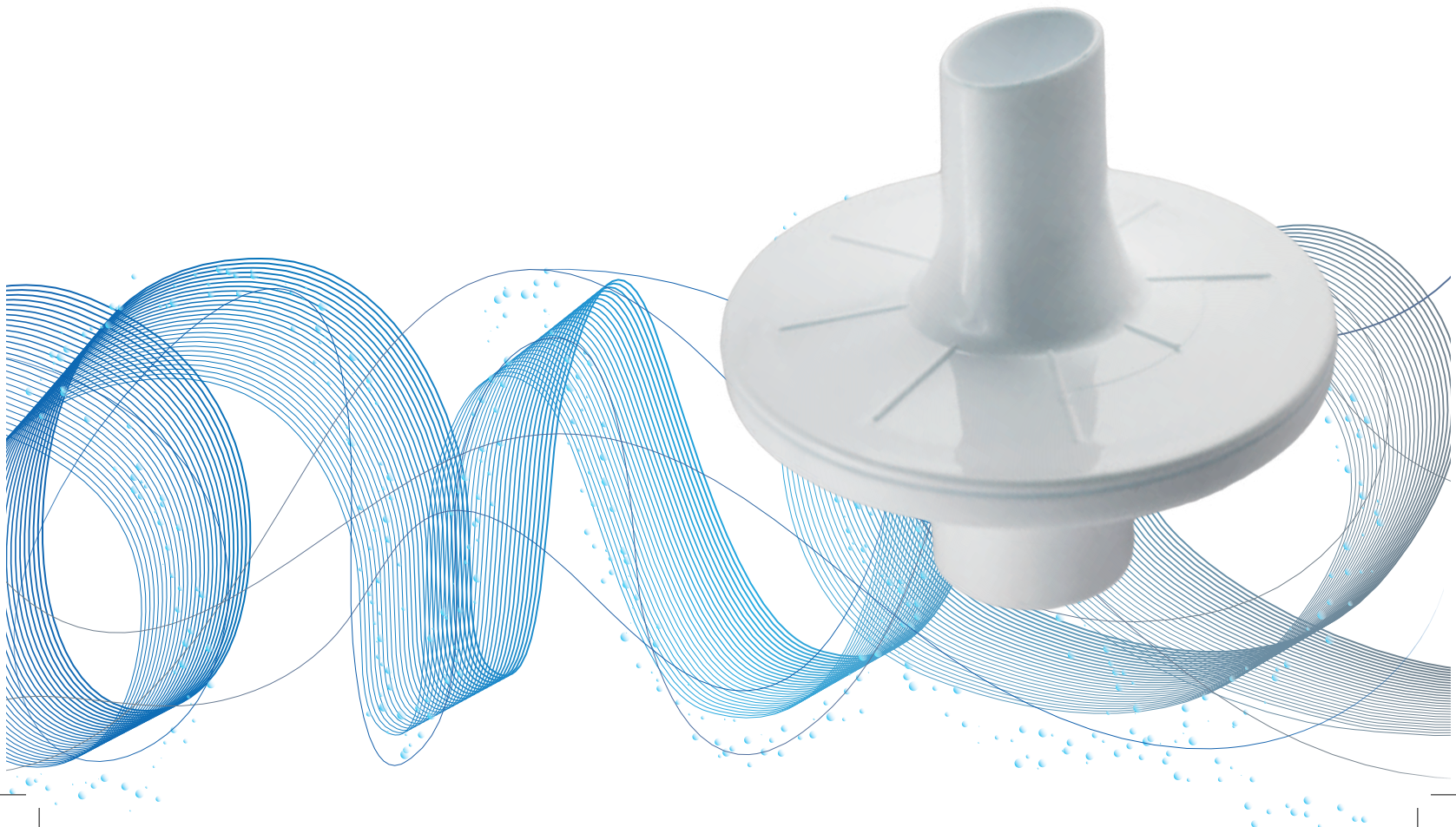
FILTER TECHNOLOGY

Spirometry

Filters & Accessories




GVS
FILTER TECHNOLOGY


Life in every breath.

GVS Lung Function Test Filters

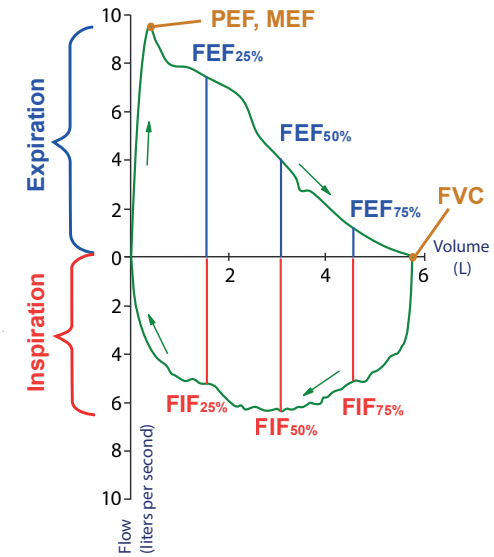
Pulmonary function tests are noninvasive tests that show the lungs healthy condition.
The tests measure lung volume, capacity, rates of flow, and gas exchange.

Pulmonary function tests measurements includes:

Tidal volume (VT). Total volume of air inhaled or exhaled during normal breathing.
Minute volume (MV). Total volume of air exhaled per minute.
Vital capacity (VC). Total volume of air exhaled from the lungs after a full inhalation.
Functional residual capacity (FRC). Volume of air left in lungs after exhaling normally.
Residual volume. Volume of air left in the lungs after a full exhalation.
Total lung capacity. Total volume of air that the lungs can hold.
Forced vital capacity (FVC). Volume of air forcibly exhaled from the lungs after taking the deepest breath possible
Forced expiratory volume (FEV). Volume of air expired during the first, second, and third seconds of the FVC test.
Forced expiratory flow (FEF). Measures exhaled volume of air to indicate if a large airway obstruction is present
Peak expiratory flow rate (PEFR). Measures if treatment is effective in improving airway diseases such as COPD

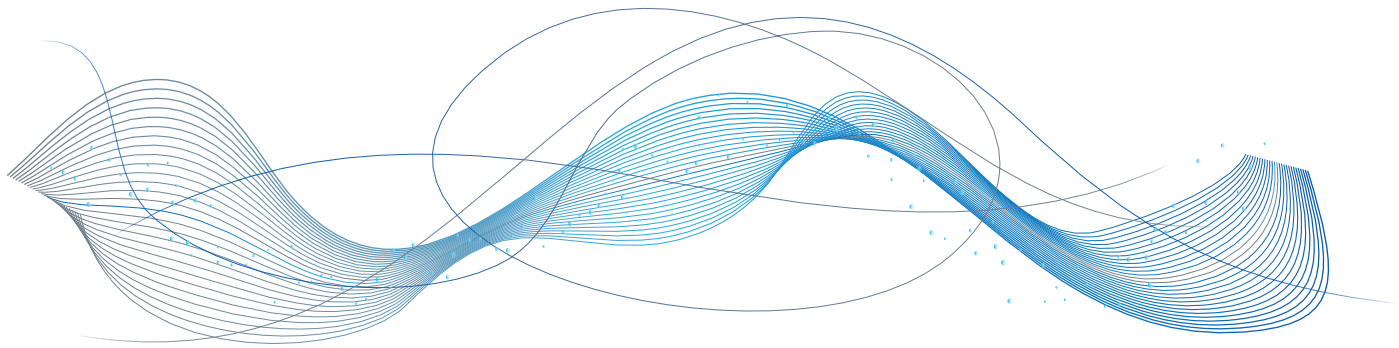
Patients performing pulmonary function tests generate flows. During these forced expirations, infective droplets are expelled and therefore the potential risk of cross-infection may be comparatively high. Immuno-compromised patients are potentially at greater risk of acquiring a variety of infections

GVS **Pulmonary Filters** plays a key role in order to essentially eliminate any potential risk of cross-infection.
With a combination of low resistance and high bacterial and viral efficiency, GVS Pulmonary Filters do not only
prevent contamination of the equipment by potential pathogen transmission via the patient‘s exhaled air but also
prevent patient cross contamination.
Furthermore it protects the staff from coming in direct contact with the exhaled air during the breathing manoeuvres.



Potential pathogens in a Pulmonary function laboratory with suggested Precautions

Microorganism	High-risk group/condition	Precautions
Mycobacterium tuberculosis	Droplets remain viable for many hours in air [8,7]	Airborne precautions GVS Pulmonary filter
Branhamella catarrhalis	Immune-suppressed patients	Droplet precautions GVS Pulmonary filter
Respiratory Viruses	Children and elderly person or immune patients	Airborne precaution plus Contact precautions should be taken for such microorganism GVS Pulmonary filter
Neisseria sp.	Immunocompromised patients	Airborne precaution plus droplet precautions should be taken GVS Pulmonary filter
Human immunodeficiency virus	Immunocompromised patients	Droplet precautions GVS Pulmonary filter
Heptatitis B, C virus	Immunocompromised patients	Droplet precautions can prevent infection GVS Pulmonary filter
Varicella zoster	All individual	Airborne precautions GVS Pulmonary filter
Measles	All individual	Airborne precautions plus contact precautions
Aspergillus	Immunocompromised patients Patients suffering from other lung diseases	Airborne precautions GVS Pulmonary filter
Cryptococcal meningitis	Patients with defect in cell-mediated immunity	GVS Pulmonary filter



Filter Media

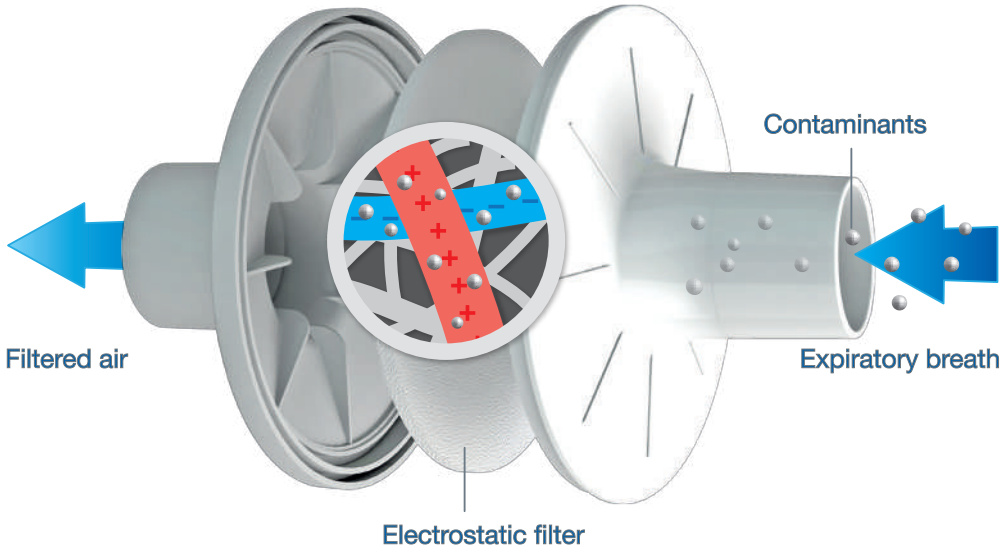
GVS filters use an electrostatically charged media that stops&traps expectorated matter, bacteria and viruses for the highest effective protection on the market against cross-contamination.
Unlike other spirometry filters, GVS's electrostatic filter media is covered in a protective scrim layer. This prevents fibres becoming loose, blocking the spirometer and therefore enhancing protective performance against harmful contamination.
The filter media has hydrophobic properties to minimise droplet contamination, as well as providing a low resistance and low dead space to improve the validity and consistency of respiratory testing results and minimise rebreathing.

GVS media have passed stringent biocompatibility requiments set by the FDA and have proven to be highly efficient in term of protection against Viruses and Bacteria.

With an effectiveness protection of BFE 99.99999% and VFE 99.9998%, GVS filters are the best solution for the protection of patients, staff and instrumentation from contamination.

Filter Housing

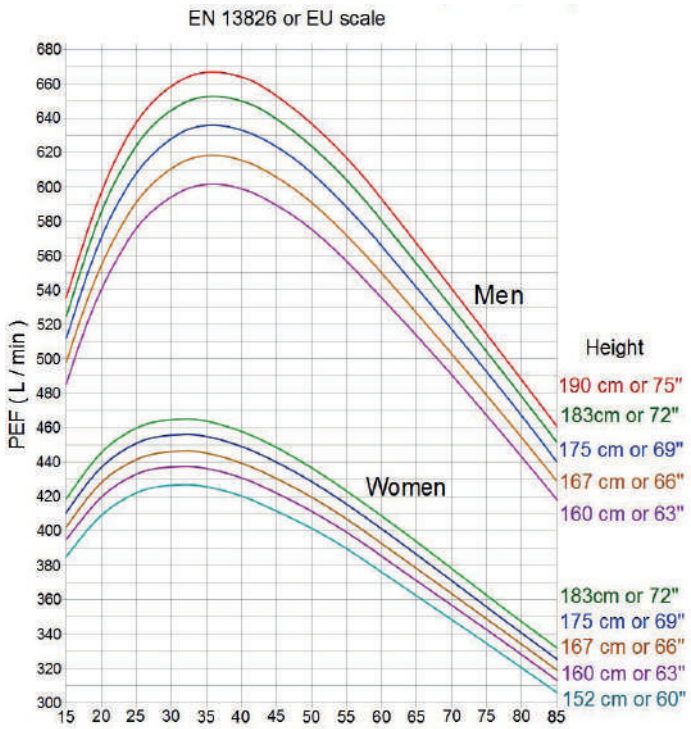
The filter materials composed of polymer fibers especially developed against bacteria or fungus growth.
This material withstands extreme envirnoment condition. The GVS filter material is tested for biocompatibility



GVS Pulmonary Filters features

- 99.9999% viral and bacterial efficiency against cross-contamination
- Low resistance to airflow
- Low resistance to peak-flow (720 L/min - 12 L/sec)
- Low functional volume
- Microbiological filtration effectiveness tested in independent laboratories to provide high efficiency against bacteria and viruses
- Integrated or disposable mouth piece improves the effectiveness of the test
- Filter housing tested for biocompatibility
- Clinically proven safety

Depending on the pulmonary funcion tests measurements, the peak expiratory flow - typically measured in units of liters per minute (L/min) - can reach rate of 720 L/min (12 L/sec).
A complete series of scientific tests were carried out on GVS Pulmarny Filter in order to grant maximal efficiency in trapping and removing bacteria / viruses and it must also have a low resistance to airflow even at peak expiratory flow rate.

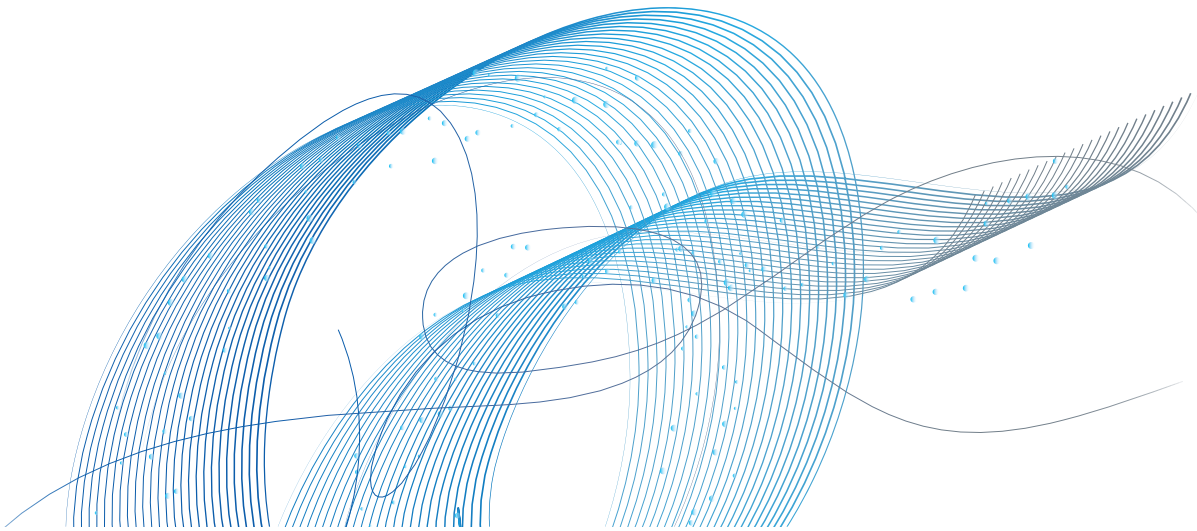


Indipendent

A complete series of scientific tests of the GVS Pulmonary Filters were carried out at Nelson Laboratories, Dick Munns Company, National Infection Service Public Health England and GVS Laboratories.
The tests was performed following a standard operating procedure.

- **Constant flow at a rate of 30 litres per minute**
- **Constant flow at a rate of 60 litres per minute**
- **Constant flow at a rate of 90 litres per minute**
- **Bacteria filtration efficiency test at increased challenge level testing***
- **Virus filtration efficiency test at increased challenge level testing***

***Mean particle size (MSP) constant at 3.0 ± 0.3 µm**



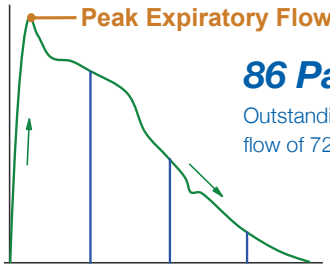
spir guard
ELECTROSTATIC SPIROMETRY FILTER

Electrostatic Spirometry Filter **with integrated mouthpiece**

Integrated Mouthpiece
Ergonomically designed for a comfortable fit

Filter Media	Electrostatic
Housing	Polypropylene
Flow Resistance @ 30 L/min*	< 25 Pa (< 0.25 cm H_2O)
Flow Resistance @ 60 L/min*	< 51 Pa (< 0.51 cm H_2O)
Flow Resistance @ 90 L/min*	< 78 Pa (< 0.78 cm H_2O)
Flow Resistance @ 720 L/min*	< 86 Pa (< 0.86 cm H_2O)
Baterial Filtration Efficiency BFE**	99.99999%* up to 0.027 µm
Virus Filtration Efficiency VFE**	99.9998%* up to 0.027 µm
Effective Filtration Area	60 cm^2
Pyrogenicity	< 0.25 EU/ml
Dead space	80 ml
Weight	37 g
Dimensions	h. 92.65 mm; w. 96.8 mm

*In accordance with EN ISO 9360-1
** Mean particle size (MSP) constant at 3.0 ± 0.3 µm
Challenge flow rate (LPM) 30 liters per minute
Independently tested, data available upon request



86 Pa
Outstanding Filter performance at peak expiratory flow of 720 L/min (12 L/sec)

Ordering information:

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

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

GVS 2800/21 For use with Carefusion Vmax, MasterScreen, IOS and APS pulmonary function testing system & other devices
A range of adaptors are available for the limited number of devices this filter does not fit directly.

Electrostatic Spirometry Filter **with integrated mouthpiece KIT**

Integrated Mouthpiece
Ergonomically designed for a comfortable fit

Filter Media	Electrostatic
Housing	Polypropylene
Flow Resistance @ 30 L/min*	< 25 Pa (< 0.25 cm H_2O)
Flow Resistance @ 60 L/min*	< 51Pa (< 0.51 cm H_2O)
Flow Resistance @ 90 L/min*	< 78 Pa (< 0.78 cm H_2O)
Flow Resistance @ 720 L/min*	< 86 Pa (< 0.86 cm H_2O)
Baterial Filtration Efficiency BFE**	99.99999%* up to 0.027 µm
Virus Filtration Efficiency VFE**	99.9998%* up to 0.027 µm
Effective Filtration Area	60 cm^2
Pyrogenicity	< 0.25 EU/ml
Dead space	80 ml
Weight	37 g
Dimensions	h. 92.65 mm; w. 96.8 mm

*In accordance with EN ISO 9360-1
** Mean particle size (MSP) constant at 3.0 ± 0.3 µm
Challenge flow rate (LPM) 30 liters per minute
Independently tested, data available upon request

Nose Clip

Dimensions
h. 66.0 mm; w. 41.8 mm
Material
Polypropylene and foam pads

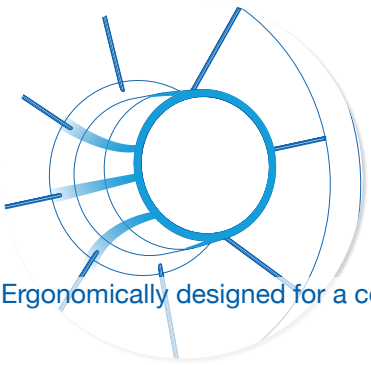
Ordering information:

Product Code	Description
2800/21BFK	Electrostatic Spirometry Filter Kit Clinic Clean bag packed

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

GVS 2800/21 For use with Carefusion Vmax, MasterScreen, IOS and APS pulmonary function testing system & other devices
A range of adaptors are available for the limited number of devices this filter does not fit directly.

Electrostatic Spirometry Filter



Ergonomically designed for a comfortable fit

Filter Media	Electrostatic
Housing	Polypropylene
Flow Resistance @ 30 L/min*	< 24 Pa (< 0.24 cm H_2O)
Flow Resistance @ 60 L/min*	< 56 Pa (< 0.56 cm H_2O)
Flow Resistance @ 90 L/min*	< 103 Pa (< 1.03 cm H_2O)
Baterial Filtration Efficiency BFE**	99.99997%* up to 0.027 µm
Virus Filtration Efficiency VFE**	99.99964%* up to 0.027 µm
Effective Filtration Area	60 cm^2
Pyrogenicity	< 0.25 EU/ml
Dead space	81.5 ml
Weight	37.2 g
Dimensions	h. 92.65 mm; w. 96.8 mm

*In accordance with EN ISO 9360-1

** Mean particle size (MSP) constant at 3.0 ± 0.3 µm
Challenge flow rate (LPM) 30 liters per minute

Independently tested, data available upon request

Ordering information:

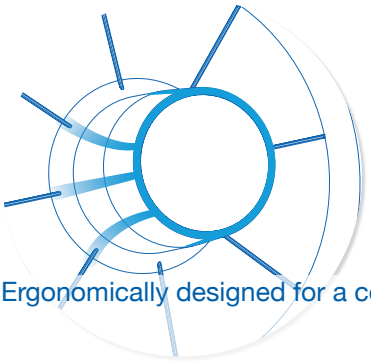
Product Code	Description
2800/22BAUF	Electrostatic Filter Clinic Clean bag packed
2800/22ABUF	Electrostatic Filter bulk packed

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

GVS 2800/22 For use with Carefusion Vmax, MasterScreen, IOS and APS pulmonary function testing system & other devices

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

Electrostatic Spirometry Filter **Kit**



Ergonomically designed for a comfortable fit

Filter Media	Electrostatic
Housing	Polypropylene
Flow Resistance @ 30 L/min*	< 24 Pa (< 0.24 cm H_2O)
Flow Resistance @ 60 L/min*	< 56 Pa (< 0.56 cm H_2O)
Flow Resistance @ 90 L/min*	< 103 Pa (< 1.03 cm H_2O)
Baterial Filtration Efficiency BFE**	99.99997%* up to 0.027 µm
Virus Filtration Efficiency VFE**	99.99964%* up to 0.027 µm
Effective Filtration Area	60 cm²
Pyrogenicity	< 0.25 EU/ml
Dead space	81.5 ml
Weight	37.2 g
Dimensions	h. 92.65 mm; w. 96.8 mm

*In accordance with EN ISO 9360-1
** Mean particle size (MSP) constant at 3.0 ± 0.3 µm
Challenge flow rate (LPM) 30 liters per minute
Independently tested, data available upon request

Nose Clip

Dimensions

h. 66.0 mm; w. 41.8 mm

Material

Polypropylene and foam pads

Flexible Bitegrip

Dimensions

ID. 32.0 mm; OD. 36.0 mm

Material

TPE (Thermo Plastic Elastomer)

Ordering information:

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

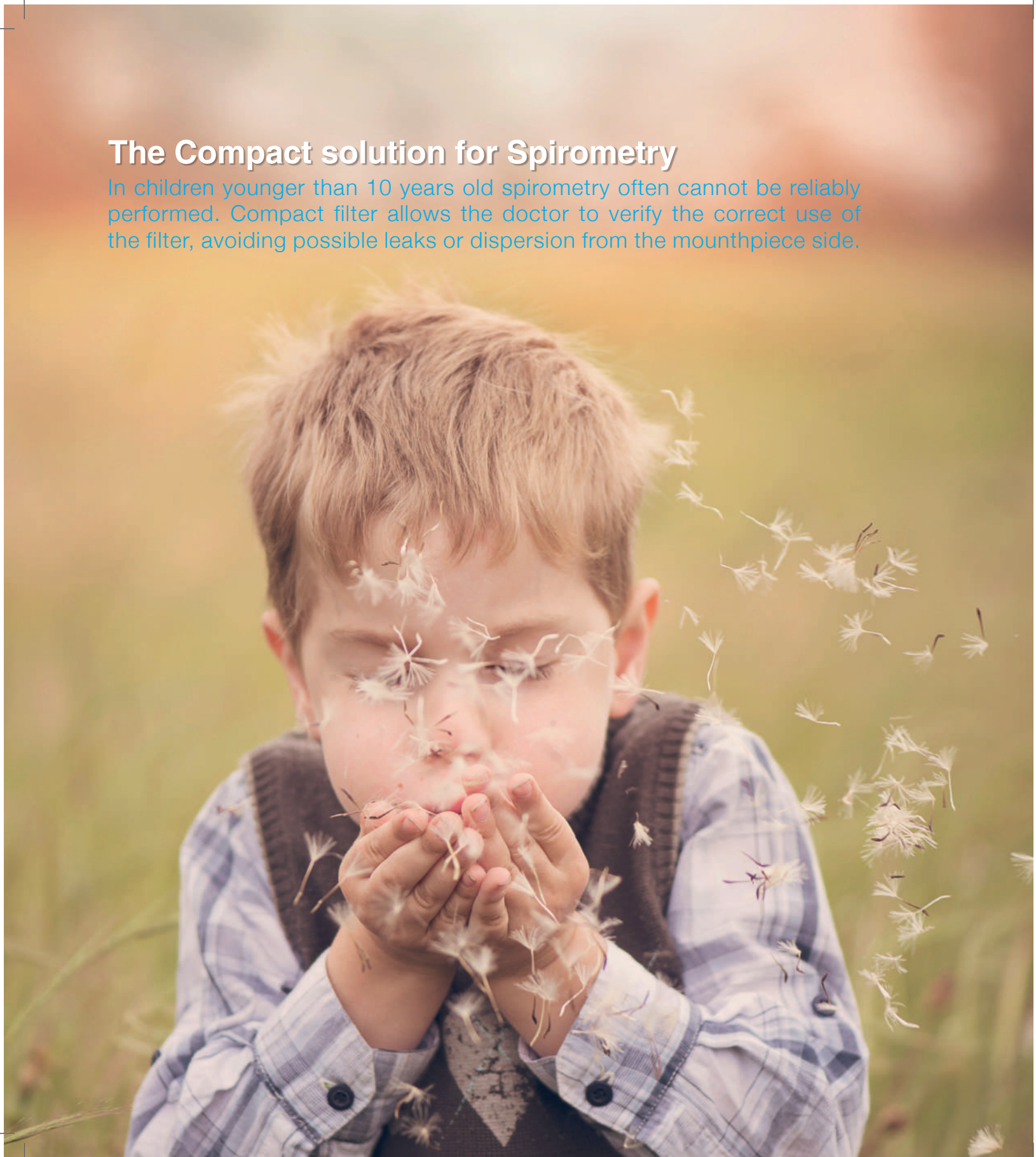
Packaging: Quantity/Box 50 units. Shipping box 100 units.

GVS 2800/22 For use with Carefusion Vmax, MasterScreen, IOS and APS pulmonary function testing system & other devices

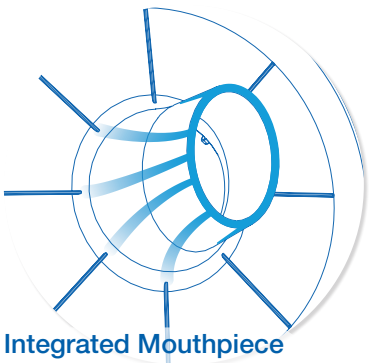
A range of adaptors are available for the limited number of devices this filter does not fit directly.

The Compact solution for Spirometry

In children younger than 10 years old spirometry often cannot be reliably performed. Compact filter allows the doctor to verify the correct use of the filter, avoiding possible leaks or dispersion from the mounthpiece side.



COMPACT Electrostatic Spirometry Filter **with integrated mouthpiece**



Integrated Mouthpiece
Ergonomically designed for a comfortable fit
Compact filter design. Only 68.5 mm diameter

Filter Media	Electrostatic
Housing	Polypropylene
Flow Resistance @ 30 L/min*	< 79 Pa (< 0.79 cm H_2O)
Flow Resistance @ 60 L/min*	< 160 Pa (< 1.60 cm H_2O)
Flow Resistance @ 90 L/min*	< 259 Pa (< 2.59 cm H_2O)
Baterial Filtration Efficiency BFE**	99.99%* up to 0.027 µm
Virus Filtration Efficiency VFE**	99.96%* up to 0.027 µm
Effective Filtration Area	28 cm^2
Pyrogenicity	< 0.25 EU/ml
Dead space	71.45 ml
Weight	25 g
Dimensions	h. 95 mm; w. 68.5 mm

*In accordance with EN ISO 9360-1
** Mean particle size (MSP) constant at 3.0 ± 0.3 µm
Challenge flow rate (LPM) 30 liters per minute
Independently tested, data available upon request

Ordering information:

Product Code	Description
2800/728BAUA	Electrostatic Filter Clinic Clean bag packed
2800/728ABUA	Electrostatic Filter bulk packed

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

GVS 2800/728 For use with Carefusion Vmax, MasterScreen, IOS and APS pulmonary function testing system & other devices
A range of adaptors are available for the limited number of devices this filter does not fit directly.

COMPACT Electrostatic Spirometry Filter **with integrated mouthpiece KIT**

Filter Media	Electrostatic
Housing	Polypropylene
Flow Resistance @ 30 L/min*	< 79 Pa (< 0.79 cm H_2O)
Flow Resistance @ 60 L/min*	< 160 Pa (< 1.60 cm H_2O)
Flow Resistance @ 90 L/min*	< 259 Pa (< 2.59 cm H_2O)
Baterial Filtration Efficiency BFE**	99.99%* up to 0.027 µm
Virus Filtration Efficiency VFE**	99.96%* up to 0.027 µm
Effective Filtration Area	28 cm^2
Pyrogenicity	< 0.25 EU/ml
Dead space	71.45 ml
Weight	37.2 g
Dimensions	h. 92 mm; w. 68.5 mm

*In accordance with EN ISO 9360-1
** Mean particle size (MSP) constant at 3.0 ± 0.3 µm
Challenge flow rate (LPM) 30 liters per minute
Independently tested, data available upon request

Nose Clip

Dimensions

h. 66.0 mm; w. 41.8 mm

Material

Polypropylene and foam pads

Ordering information:

Product Code	Description
2800/728BFK	Compact Electrostatic Spirometry Filter Kit clinic clean bag packed

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

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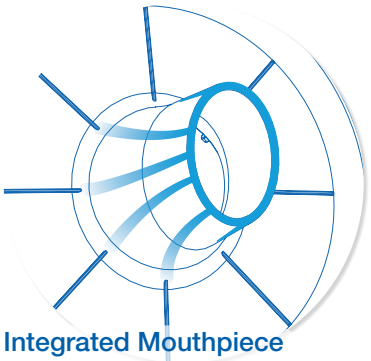
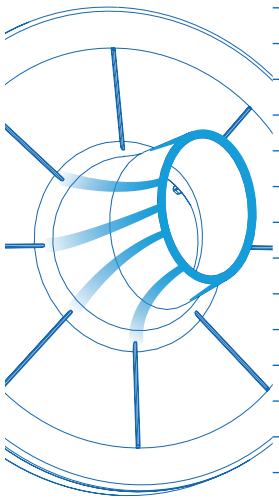


Integrated Mouthpiece
Ergonomically designed for a comfortable fit
Compact filter design. Only 68.5 mm diameter

GVS 2800/728 For use with Carefusion Vmax, MasterScreen, IOS and APS pulmonary function testing system & other devices

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

Spiroguard Filters Diameters and Connections



Code	Filter Media	Housing material	Machine Side		Patient Side	
			O/D (mm)	I/D (mm)	O/D (mm)	I/D (mm)
2800/01	Electrostatic Fibre, 200g	High Impact PolyStyrene (HIPS)	34	30.1	29.2	26.1
2800/02	Electrostatic Fibre, 200g	High Impact PolyStyrene (HIPS)	34	28.2	29.2	26.7
2800/03	Electrostatic Fibre, 200g	High Impact PolyStyrene (HIPS)	34	31	29.2	26.7
2800/10	Electrostatic Fibre, 200g	PolyPropylene	34	30.5	29.2	26.7
2800/11	Electrostatic Fibre, 200g	PolyPropylene	30.65	26.5	Mouthpiece	
2800/15	Electrostatic Fibre, 200g	PolyPropylene	30.65	26.5	25	20.8
2800/17	Electrostatic Fibre, 200g	PolyPropylene	29.3	26.5	29.2	26.7
2800/21	Electrostatic Fibre, 200g	PolyPropylene	34	29.3	Mouthpiece	
2800/22	Electrostatic Fibre, 200g	PolyPropylene	34	29.3	31.2	26.7
2800/23	Electrostatic Fibre, 200g	PolyPropylene	48.4	44.35	Mouthpiece	
2800/24	Electrostatic Fibre, 200g	PolyPropylene	48.4	44.35	30	26.7
2800/25	Electrostatic Fibre, 200g	PolyPropylene	35	29.1	Mouthpiece	
2800/26	Electrostatic Fibre, 200g	PolyPropylene	35	29.1	31.2	26.7
2800/27	Electrostatic Fibre, 200g	PolyPropylene	34	29.3	Mouthpiece	
2800/30	Electrostatic Fibre, 200g	PolyPropylene	29.2	27.2	Mouthpiece	

2800/23 2800/24

For use with nSpire test devices

2800/25 2800/26

For use with Medisoft test devices

2800/23 2800/24

For use with Shiller test devices

Nose Clip

Dimensions
h. 66.0 mm; w. 41.8 mm
Material
Polypropylene and foam pads
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.

Flexible Bitegrip

Dimensions
ID. 32.0 mm; OD. 36.0 mm
Material
TPE (Thermo Plastic Elastomer)
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.

Mouthpiece

Dimensions
h. 60.0 mm; w. 31.5 mm
Material
White HDPE
Connections
22 mm Male conical connectors, based on internal diameter *
Ordering information:

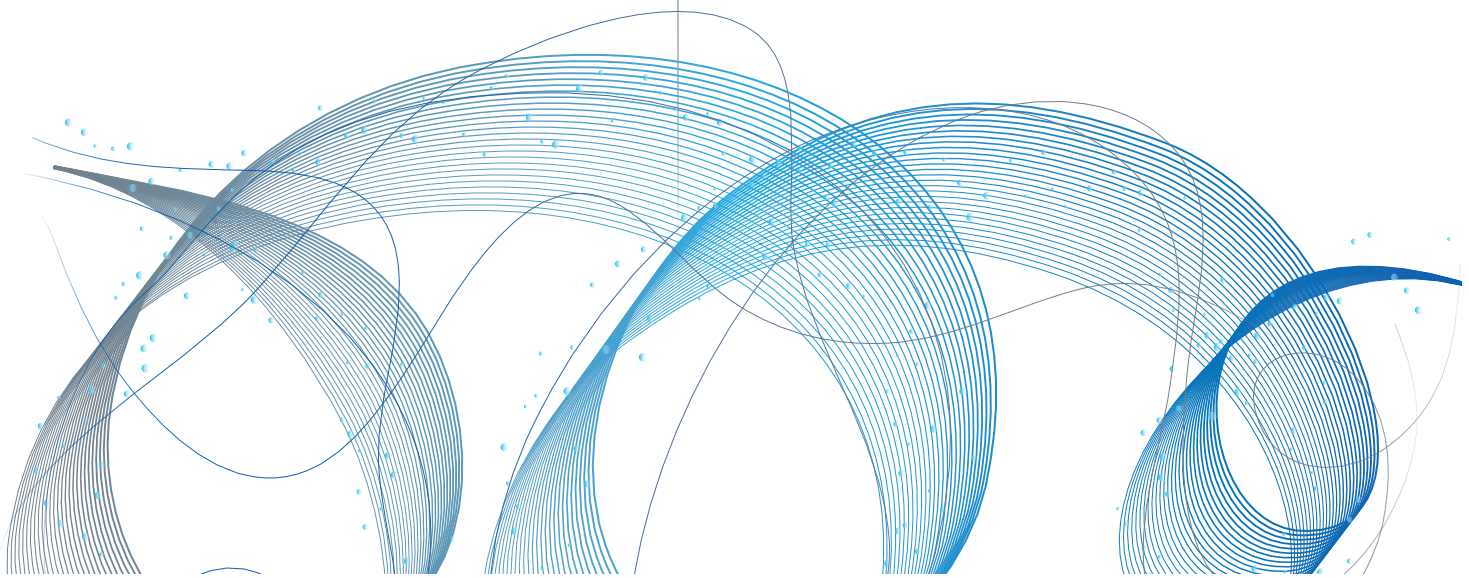
Product Code	Description
A571BAUA	Multi-Functional Medical Mouthpiece Clinic Clean bag packed
A571ABUA	Multi-Functional Medical Mouthpiece bulk packed

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

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.
Ordering information:

Product Code	Description
2802/01-29	Adaptors



GVS Spirometry Filters fit the following instruments using the listed adaptors:

Code	Machine Side		Patient Side	Instrument
	I D (mm)	O D (mm)	I D (mm)	
2802/01	29	35.2	34.3	
2802/02	28.9	34	34.3	Jaeger
2802/03	30.9	36	34.3	Gould Pulmonet Closed System Gould Pulmonet Bodyplethysmo-graph V Max Diffusion V Max Bodyplethysmograph Sensormedics Autobox /Sensorme-dics Vmax
2802/04	22.4	31	34.3	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	28.4	40	34.3	P.K. Morgan USA-Model C Lung Volume P.K. Morgan Autolink Lung Volume
2802/06	28.8	40	34.3	P.K. Morgan USA-Model C Bodyplethysmograph P.K. Morgan Autolink Bodyplethysmograph
2802/07	45.5	51	34.3	Koko
2802/08	31.2	38.6	34.3	Glenfield
2802/09	35.7	40	34.3	Vitagraph Tamarac Burdick CDX
2802/10	22.4	28.4	34.3	Collins CPL SMC100 Schiller DLCO
2802/11	26.5	29.3	34.3	
2802/12	26.5	30.2	34.3	Micromedical Turbine
2802/13	25.8	28.4	34.3	Cosmed Q BOX
2802/14	25.8	28.4	29.3	
2802/15	25.8	28.4	34.3	nSpire CPL nSpire HD PFT 4000
2802/16	31.5	35	34.3	Collins Cybermedic Spinaker Exel / MCG SpiroTube / Spirovit Koko Moe
2802/17	34.9	39	34.3	Bomi-Med Air Flow Meter

Code	Machine Side		Patient Side	Instrument
	I D (mm)	O D (mm)	I D (mm)	
2802/18	27	30.1	34.3	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 MultiSpiro (old) Keystone (old) CB / Cosmed Pony Spirolite 303 / Spirolite 323 Spirometrics 2014 Puritan Bennett S&M / Clement Clarke VM1 Clement Clarke VMX
2802/19	28.8	40	34.3	
2802/20	30.7	33.1	34.3	Cybermedic CM3 Gould Jones Satellite
2802/21	30	31.2	34.3	
2802/22	28.5	35	29.2	PB Renaissance Spirotech Ohio Collins Survey
2802/23	22.1	34	34	
2802/24	31.5	40	34.3	Cranlea
2802/25	34.9	39	34.3	Brentwood 4000
2802/27	40.6	43.4	34.3	Brentwood Burdick Fukuda
2802/28	29.2	32.2	34.3	Clement Clark One Flow
2802/30	28.5	N.A.	30	Medisoft

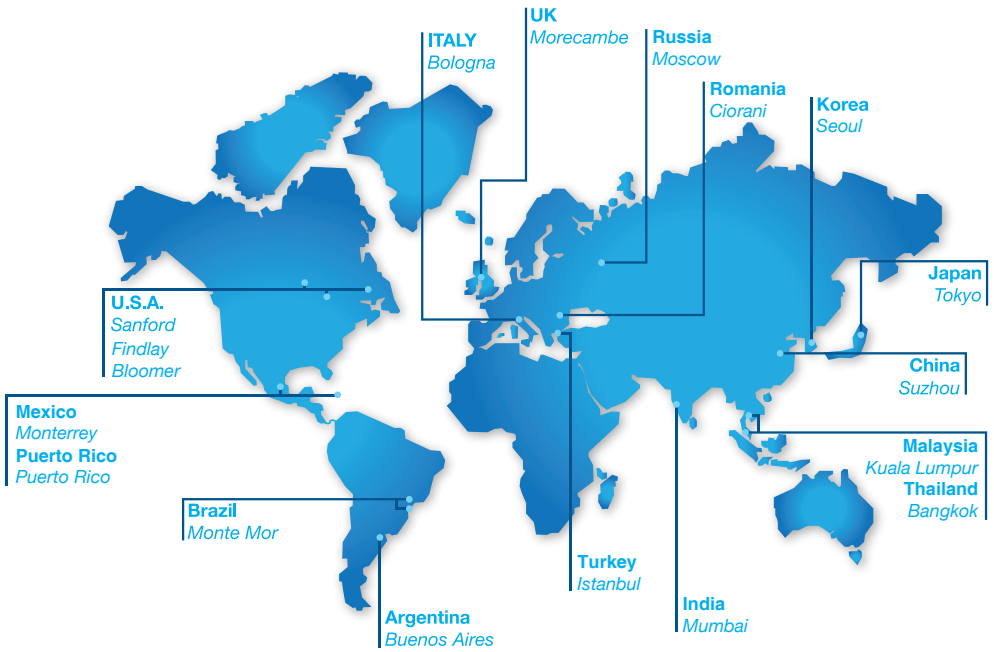
GVS

FILTER TECHNOLOGY


Because we care.

FILTER TECHNOLOGY

WORLDWIDE



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