



Multipac[®] Anesthetic Breathing Systems

A safe and effective one-a-day breathing circuit system that may be used up to 24hrs



Anesthesia ▪ Multipac[®] Anesthetic Breathing Systems



Quality, innovation and trust

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Multipac[®]

anesthetic breathing systems

Multipac[®] is a **safe** and **effective** one-a-day breathing circuit system that may be used up to 24hrs



Keep

Tube, reservoir bag and monitoring line
for **duration of day**



Change

Filter, connector and mask for **each patient**

Patient Pack

Each kit comes with two Patient Packs
and more can be individually purchased.*



*Masks and filter are individually packaged within the Patient Pack.



Multipac® Anesthetic Breathing Systems

Cost savings are a major factor in the modern surgical environment. This not only affects products, but also storage requirements and anesthesia set-up time. Intersurgical Incorporated offers a completely integrated anesthesia system to address all of these concerns.

Multipac is a one-a-day breathing circuit that may be used up to 24hrs. By selecting one of our eight Multipac configurations, most circuit needs can be met based on your clinical specifications.



By using Multipac systems, cost savings can be realized through the product, the reduction of storage needs and a reduction in waste costs².

Multipac Anesthetic Breathing Circuits include our high-efficiency Filta-Therm™ HMEFs and patient connections. These are packaged within selected circuits and must be exchanged between each patient.

Please see circuit options:



Multipac anesthetic breathing circuits

Code	Description	Qty.
2158009	Multipac Anesthesia Breathing Circuit (2 patient packs include: one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one ClearLite™ size 4 - anesthetic face mask 7294000), one Compact II™ breathing circuit 118 inches long, with parallel Y-piece and end cuffs, 3 liter reservoir bag and 10 foot monitoring line*	10
2158010	Multipac Anesthesia Breathing Circuit (2 patient packs include: one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 4 - anesthetic face mask 1515000), one Compact II breathing circuit 118 inches long, with parallel Y-piece and end cuffs, 3 liter reservoir bag and 10 foot monitoring line*	10
2900077	Multipac Anesthesia Breathing Circuit (2 patient packs include: one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one ClearLite size 4 - anesthetic face mask 7294000), one UniFlow™ breathing circuit 63 inches long, with end cuffs, 3 liter reservoir bag and 10 foot monitoring line*	10
2900078	Multipac Anesthesia Breathing Circuit (2 patient packs include: one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 4 - anesthetic face mask 1515000), one UniFlow breathing circuit 63 inches long, with end cuffs, 3 liter reservoir bag and 10 foot monitoring line*	10
2902022	Multipac Anesthesia Breathing Circuit (2 patient packs include: one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one ClearLite size 4 - anesthetic face mask 7294000), one UniFlow breathing circuit 63 inches long with integral monitoring line and end cuffs, 3 liter reservoir bag and 0.9m monitoring line*	10
2902023	Multipac Anesthesia Breathing Circuit (2 patient packs include: one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 4 - anesthetic face mask 1515000), one UniFlow breathing circuit 63 inches long with integral monitoring line and end cuffs, 3 liter reservoir bag and 0.9m monitoring line*	10
2010235	Multipac Anesthesia Breathing Circuit (2 patient packs include: one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one ClearLite size 4 - anesthetic face mask 7294000), one Flextube™ breathing circuit 63 inches long with parallel Y-piece and end cuffs, 3 liter reservoir bag and 10 foot monitoring line*	10
2010261	Multipac Anesthesia Breathing Circuit (2 patient packs include: one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 4 - anesthetic face mask 1515000), one Flextube breathing circuit 63 inches long with parallel Y-piece and end cuffs, 3 liter reservoir bag and 10 foot monitoring line*	10

[Make an inquiry](#)

*3 liter not made with natural rubber latex reservoir bag.

References: 1. Palmer L., Benbough J., CAMR (Centre for Applied Microbiology & Research) Biosafety Investigation Unit Quality, Safety and Scientific Resources Division Test Report. 2. Daggan R., Steinberg D., Larijani G., Gratz I., Zafeiridis A., Goldberg M.E.L Intersurgical's Multipac® Breathing System allows reuse of anesthesia breathing circuits (BC) resulting in cost savings and reduced medical waste.



Multipac® Patient Packs

Additional options are available by selecting one of our eight Patient Packs that will include our high efficiency Filta-Therm™ HMEF, an anesthesia mask elbow and your choice of anesthetic face masks: ClearLite™ or Economy anesthetic face mask. Packs must be exchanged between each patient.



Multipac Patient Packs

Code	Description	Qty.
72936000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one ClearLite size 3 - anesthetic face mask 7293000)	20
72946000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one ClearLite size 4 - anesthetic face mask 7294000)	20
72956000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one ClearLite size 5 - anesthetic face mask 7295000)	20
72966000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one ClearLite size 6 - anesthetic face mask 7296000)	20
15146000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 3 - anesthetic face mask 1514000)	20
15156000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 4 - anesthetic face mask 1515000)	20
15166000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 5 - anesthetic face mask 1516000)	20
15176000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 6 - anesthetic face mask 1517000)	20

Make an inquiry




Anesthetic face mask options

Option 1: ClearLite™ anesthetic face masks

A range of anesthetic face masks which includes seven sizes to meet the clinical needs of all patient types and sizes. The range is available in sizes 0 neonatal to size 6 large adult.

Due to the enhanced anatomical design, the ClearLite mask offers superior seal performance with minimum pressure, reducing the risk of unnecessary discomfort or potential trauma.

The superior seal will also assist the clinician in providing optimum manual ventilation of the patient in both the anesthetic and emergency situation.

ClearLite is non-PVC and phthalate free which significantly minimizes the impact upon the environment. 

Lightweight mask

Provides enhanced grip and comfort in use for the clinician

Anatomical shape

Provides a precise fit for different face types and sizes. Minimum pressure required to achieve an effective seal reducing the risk of inadvertent trauma and nerve damage

Crystal clear body

Provides excellent visibility for confirmation that the patient is well perfused

Flexible non-inflatable cuff

Provides a comfortable and effective airtight seal

Safe and secure connection

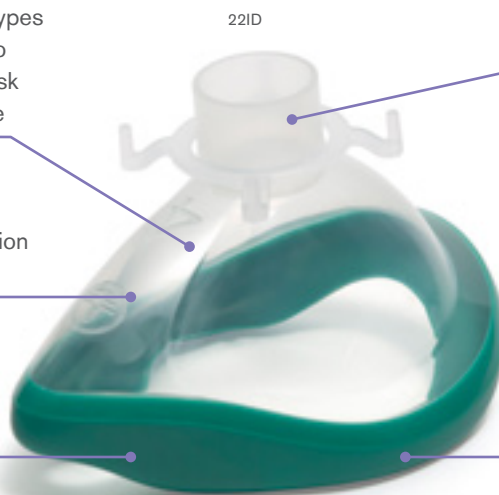
This is achieved between the mask and the breathing system in use. The ISO 22 mm tapered connection complies with ISO 5356

Reduced mask volume

Reduces potential rebreathing and risks associated with elevated levels of end tidal CO₂

Color-coding

The comfortable, flexible seal is color coded to allow quick and easy identification of the correct sized mask



Low environmental impact
Non-PVC and phthalate free

Code	Description	Color	Box Qty.	
7296000	ClearLite, anesthetic face mask, size 6, extra large adult, red seal, 22ID		20	
7295000	ClearLite, anesthetic face mask, size 5, large adult, orange seal, 22ID		35	
7294000	ClearLite, anesthetic face mask, size 4, adult, green seal, 22ID		35	
7293000	ClearLite, anesthetic face mask, size 3, small adult, yellow seal, 22ID		35	
7292000	ClearLite, anesthetic face mask, size 2, pediatric, white seal, 22ID		25	
7291000	ClearLite, anesthetic face mask, size 1, infant, grey seal, no hook ring, 15OD		30	
7290000	ClearLite, anesthetic face mask, size 0, neonate, blue seal, no hook ring, 15OD		40	

Make an inquiry

Find out more

Watch the video

 Lower environmental impact product



Anesthetic face mask options

Option 2: Economy anesthetic face masks

A range of four color-coded economy PVC anesthetic face masks with a soft cushion and clear housing. Four sizes from small adult to extra large adult.



Clear flexible housing and cushion

For good patient visibility

Soft cushion

For patient comfort and air tight fit







Color-coded hook ring

For ease of identification, and integration with other Intersurgical airway products

Four sizes available

From small adult to extra large adult

Code	Description	Color	Box Qty.
1517000	Economy, anesthetic face mask, size 6, extra large adult, 22ID		25
1516000	Economy, anesthetic face mask, size 5, large adult, 22ID		30
1515000	Economy, anesthetic face mask, size 4, medium adult, 22ID		40
1514000	Economy, anesthetic face mask, size 3, small adult, 22ID		50

Make an inquiry



Intersurgical breathing filters



Colour coding

Enhances identification, ensuring that the correct filter/HME is used for the correct clinical application, minimising any potential harm to the patient.

Tethered luer cap

For safety reasons it is advised, from the EGBAT¹ report and the more recent NPSA², the luer caps should be tethered and brightly coloured to avoid any loose caps minimising potential occlusion of the breathing system.

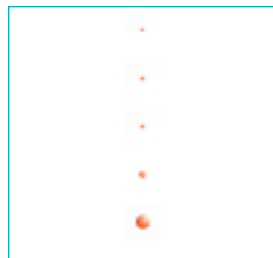
Tidal volume

The **tidal volume range** is written on the label of each Breathing Filter/HME. This allows the clinician to choose the correct filter/HME according to the patient size/weight.

Proven filtration efficiency

All validation testing is independent, up to date and reflective of the product being manufactured and supplied today

Potential infectious viruses [Particle sizes μ microns]



Coliphage T1 [0.017 μ]
MS-2 coliphage [0.02 μ]
Hepatitis C [0.03 μ]
COVID-19 [0.05 μ]
Adenovirus [0.07 μ]

Hydrophobic

All the Intersurgical filters/HMEFs provide clinically relevant level of hydrophobic protection.

Leak free

During manufacture, 100% testing for leakage and resistance to flow, which improves patient safety.

Choice of HME media

Intersurgical HMEs are available with a choice of white corrugated paper or green foam as Heat and Moisture media in order to provide choice to clinicians.

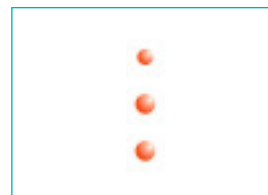
COVID-19 statement

Intersurgical filters and HMEFs provide at least the same level of protection against COVID-19 as the VFE reported in the independent microbiology tests.

Turbo webs

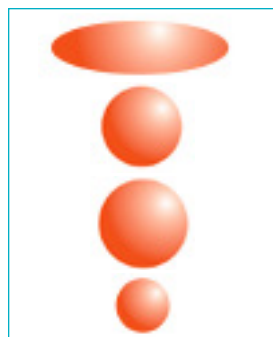
Product design incorporates turbo webs which help reduce the resistance to flow by directing the gas flow across the whole filtration surface area.

Number of organisms challenging the filter	Number of organisms passing through the filter	Efficiency of the filter
100,000	1,000	99%
	100	99.9%
	10	99.99%
	1	99.999%

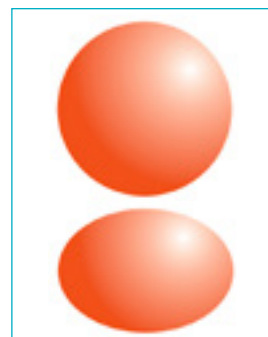


HIV [0.11 μ]
Cytomegalovirus (CMV) [0.1 μ]
Orthomyxovirus [0.1 μ]

Potential infectious bacteria [Particle sizes μ microns]



Mycobacterium tuberculosis [0.3 μ x 1.0 μ smallest size]
Serratia marcescens [0.45 μ]
Pseudomonas aeruginosa [0.5 μ]
Brevundimonas diminuta [0.3 μ]



Staphylococcus aureus [1.0 μ]
Bacillus subtilis [1.0 μ x 0.7 μ]

References

- 1: Department of Health. 2004. protecting the breathing circuit in anaesthesia – Report to the Chief Medical Officer of an Expert Group on block anaesthetic tubing. Available from: <http://www.frca.co.uk/documents/Protecting%20the%20PBC.pdf>
- 2: National Health Service. 2020. National Patient Safety Alert: Foreign body aspiration during intubation, advanced airway management or ventilation. Available from: <https://www.england.nhs.uk/publication/national-patient-safety-alert-foreign-body-aspiration-during-intubation-advanced-airwaymanagement-or-ventilation>.



Filta-Therm

High efficiency

Electrostatic filter media

Providing high efficiency
bacterial viral protection

Flow diffuser and turbo webs

Help to reduce the resistance
to flow by directing the gas flow
across the whole surface area

Larger surface area of HME media

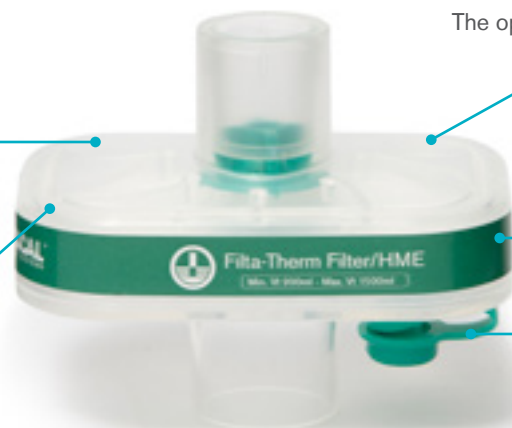
The open celled foam HME maximises moisture
return with a low compressible volume

Colour coding

Enhances identification, ensuring
that the correct filter/HME is used
for the correct clinical application

Tethered luer cap

For safe monitoring of respiratory gases



Code	1941000
Box Qty.	70
Luer lock port	✓
Moisture loss	9.3 mgH ₂ O/L
Calculated moisture return	29.5 mgH ₂ O/L
Filtration efficiency	> 99.999%
Resistance at 30 L/min	1.0 cmH ₂ O
Resistance at 60 L/min	2.4 cmH ₂ O
Compressible volume	65 ml
Weight	43 g
Connectors	22F – 22M/15F
Minimum tidal volume	> 200 ml

