

Multiple-Patient-Use Anesthesia Circuits

Protect patients, staff, and equipment while increasing efficiency and reducing costs

Features

- Pall anesthesia circuits may be used on an unlimited number of patients within a 24-hour period, as long as every new patient receives a fresh Pall Ultipor® 25 filter
- Registered under FDA 510(k) Number K013093 – August 1, 2002¹
- A variety of coaxial (single-limb) and dual-limb circuits available
- Four mask sizes: one pediatric and three adult (small, medium, and large)
- All products and components are not made with natural rubber latex

Benefits

- Reduces the number of circuits used on a daily basis
- Decreases overall circuit costs
- Saves time by turning the operating room over more quickly in between procedures
- Generates less medical waste (approximately 2000 lbs less per year than single-use circuits), decreasing disposal costs²
- Protects patients and staff from machine contamination
- Protects machines from patient contamination

Why Hospitals are Converting to Pall Multiple-Patient-Use Circuits

A single Pall Ultipor® Anesthesia Breathing Circuit System can be used for all procedures performed within a 24-hour period, as long as each new patient is provided with a fresh Pall patient kit. Pall patient kits contain a mask, an Ultipor® 25 Breathing Circuit Filter, and a filter elbow. Four different mask sizes are available.



Pall Patient Kit

The advantages of using the same circuit for multiple patients are clear:

- Fewer circuits are used, saving money.
- Less medical waste is generated, decreasing disposal costs.
- Operating room turnover time is decreased, saving staff effort.
- Patients and staff are protected from machine contamination.
- Machines are protected from patient contamination.

The key to the ability to reuse circuits is the Pall Ultipor® 25 Breathing Circuit Filter. Rigorous mono-dispersed testing of the hydrophobic Ultipor® 25 filter vs. *Brevundimonas diminuta* and MS-2 bacteriophage has demonstrated 5 log retention efficiency^{3,4} In addition, Vezina et al.⁵ demonstrated superior retention of *Mycobacterium chelonae* by the Ultipor® 25 when compared to other brands of breathing filters. Both Pall dual-limb and coaxial (single-limb) circuit configurations may be used between patients for up to 24h if a new patient kit is used for every patient.

Ordering Information

Anesthesia Breathing Circuit Filters (50/box)

Product Code	Description
BB25AB	Ultipor® 25 Anesthesia Filter with Monitoring Port
BB25ABN	Ultipor® 25 Anesthesia Filter with Monitoring Port and Elbow

Adult Machine Kits (20/box)

Product Code	Description
VM96DLEX	Adult 96" Expandable Dual-Limb Circuit, 0.060" CO ₂ Gas Sampling Line, and 3-Liter Non-Latex Breathing Bag
VM96DLEX2L	Adult 96" Expandable Dual Limb Circuit with Removable Limbs, 0.060" CO ₂ Gas Sampling Line, and 2-Liter Non-Latex Breathing Bag
VM72DLNEX	Adult 72" Nonexpandable Dual Limb, 0.060" CO ₂ Gas Sampling Line, and 3-Liter Non-Latex Breathing Bag
VM40COAX	Adult 40" Uni-Limb (Coaxial) with Expiratory Tubing attached @ 3-Way Inspiratory Port, 0.060" CO ₂ Gas Sampling Line, and 3-Liter Non-Latex Breathing Bag
VM60COAX	Adult 60" Uni-Limb (Coaxial) with Expiratory Tubing attached @ 3-Way Inspiratory Port, 0.060" CO ₂ Gas Sampling Line, and 3-Liter Non-Latex Breathing Bag
VM72COAX	Adult 72" Uni-Limb (Coaxial) with Expiratory Tubing attached @ 3-Way Inspiratory Port, 0.060" CO ₂ Gas Sampling Line, and 3-Liter Non-Latex Breathing Bag

Pediatric Machine Kits (20/box)

Product Code	Description
VM96PDLEX	Pediatric 96" Expandable Dual Limb, 0.050" CO ₂ Gas Sampling Line, and 1-Liter Non-Latex Breathing Bag
VM72PCOAX	Pediatric 72" Uni-Limb (Coaxial) with Expiratory Tubing attached @ 3-Way Inspiratory Port, 0.050" CO ₂ Gas Sampling Line, and 1-Liter Non-Latex Breathing Bag

Patient Kits (20/box)

Product Code	Description
VMPKSA	Small Adult Face Mask, Elbow, and Ultipor® 25 Filter
VMPKMA	Medium Adult Face Mask, Elbow, and Ultipor® 25 Filter
VMPKLA	Large Adult Face Mask, Elbow, and Ultipor® 25 Filter
VMPKPED	Pediatric Face Mask, Elbow, and Ultipor® 25 Filter

Breathing Bags (bulk packaged, 20/ box)

Product Code	Description
VM3LBB20	3-Liter Non-Latex Breathing Bag
VM2LBB20	2-Liter Non-Latex Breathing Bag

Miscellaneous Products

Product Code	Description
VMFLEX	Expandable 15mm X 5-inch Flex Tube (100/ box)
CO2GSL060	3-Meter, 0.060" CO ₂ Gas Sampling Line (100/ box)
VM40EXT	40" extension tube (100/ box)
VMPELBO	Ported elbow (50/ box)

References

1. FDA 510(k) Number K013093 – August 1, 2002
2. Based on an annual procedure volume of 10,000 per year and an average of five patient procedures per circuit. Data on file at Pall Corporation.
3. Data on file at Pall Corporation.
4. Duberstein, R. and G. Howard. 1978. Sterile filtration of gases: a bacterial aerosol challenge test. J. Parent. Drug. Assoc. 32(4):192-198.
5. Vezina, D.P., et al. 2004. An in vivo evaluation of the mycobacterial filtration efficiency of three breathing filters used in anesthesia. Anesthesiology. 101(1):104-109.



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