

KingFlex2™

co-axial breathing circuit



Versatile. Shapeable. Dependable.

The first and only expandable single-limb breathing circuit on the market. Its smart design and advanced technology make your circuit choice simple. Its versatility has something for everyone.

Versatile.

- For use on patients of every size over 3 kg where a circle circuit would typically be used.
- Easy conversion for use in transport and post-op.

Shapeable.

- Inch-for-inch, among the lightest weight circuits on the market.
- Available in 72" and 108" expanded lengths.
- Expandable single-limb extensions available to increase circuit length.
- 360 degree drapability and solid memory.
- Collapsed-circuit 50-count case pack has small storage space requirements.

Dependable.

- Single machine-end filter provides separate inspiratory and expiratory HEPA-level challenged at >99.97% @ .3 microns.
- Clinically-proven humidification levels achieved through thermal efficiency, without the need for a separate HME.

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Options

- Reusable or disposable transport adapters
- 72" flex extension
- Polymer manifold
- Filtered and non-filtered versions
- Gas sampling lines with and without filters and co-extruded
- Sample port elbow
- Bain/Mapelson D arm adapter
- Scented or non-scented face masks (Size 1, 2, 3, 4, 5, 6 and round)
- Breathing bag – regular, textured, latex-free, Rainbow Breathing Bags® or Contour®

Filter Data

Viral: MIL test – VFE

Average viral (X174, 0.027 micron size) removal efficiency of >99.9996%

Bacterial: MIL test – BFE

Average bacterial Staphylococcus Aureus removal efficiency of >99.9999%

0.3 Micron: HEPA level challenge

Average >99.97% – PASS

Testing Data

Thermal efficiency (°C) in anesthesia only

Temperature was continuously monitored at four positions in the circle system during the test: inspiratory dome valve (I_{vent}) and patient inspiratory (I_{prox}).

Temperature (Initial)	I _{vent}	I _{prox}
King Flex2	22.3	23.2
Standard Circle	21.5	23.1

Temperature (at 15 min.)	I _{vent}	I _{prox}
King Flex2	23.6	29.2
Standard Circle	21.6	23.9

Resistance (cmH₂O)

Defined as the pressure difference from inlet to outlet of the device per unit of flow.

Flow	0.5 L/sec
King Flex2 (insp.) 24"	0.2
King Flex2 (exp.) 24"	0.8
King Flex2 (insp.) 72"	0.6
King Flex2 (exp.) 72"	1.0
King Flex2 Filter	0.8

Humidification delivery (at 15 min.) in anesthesia only

Fresh gas flow rate: 2L/min.; tidal volume: 800ml; respiratory rate: 12 breaths/min.

Absolute humidity:	27.1 mg H ₂ O/L
Relative humidity:	91% at 29.5°C
Compliance	.60 ml/cmH ₂ O/meter
Dead Space with elbow	13 cc's
Dead Space without elbow	6 cc's

Weight	grams/inch
King Flex2	1.71

Test results and filter data on file.
All testing conducted by independent labs.

King systems

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