

Vital Signs
A GE Healthcare Company

Limb-O™
Single Limb Breathing Circuits

The Power of One

Uniting gas delivery and heat retention



Comprehensive Solutions for Anesthesia and Respiratory

Limb-O is a single tube anesthesia breathing circuit. Unlike coaxial systems, the Limb-O is a divided tube, utilizing a flexible septum running the length of the tube. There are many advantages to this design which are evident in its reduced weight per meter and lower compressible volume loss, while retaining a supple feel and drape. There is also the possible added benefit of less torque on the patient interface. Estimates suggest patients can lose up to 15% of their heat because of cold, dry anesthetic gases. Limb-O effectively transfers heat from the expiratory to inspiratory side of the circuit, helping to reduce the patient's energy demands and aiding in their ability to remain normothermic. Limb-O's patented tubing design supports clinicians' efforts in the delivery of a general anesthetic.

Light Weight

Less plastic means less weight and torque on the patient's airway management device; Limb-O weighs 34% less than coaxial circle circuits and 25% less than traditional circle circuits.*

Size	40" (102 cm)	58" (147 cm)	72" (183 cm)	108" (274 cm)
Weight	106 g	136 g	170 g	230.8 g

Thermally Efficient

Net increase of 6.2 °C in the first 15 minutes at 4 L/min flow rates on anesthesia machine.

Latex Free

Circuit Materials

Corrugated Tubing and Septal Wall - Polyethylene/EVA
 22mm Connectors - Polypropylene
 Cuff Band - Polyisoprene
 Expandable Extension Hose - Polypropylene

Inspiratory and Expiratory Resistance

Flow Rates	10 L/min (cm H ₂ O)		20 L/min (cm H ₂ O)		30 L/min (cm H ₂ O)		40 L/min (cm H ₂ O)		50 L/min (cm H ₂ O)		60 L/min (cm H ₂ O)	
	I	E	I	E	I	E	I	E	I	E	I	E
40" (102 cm)	0.09	0.10	0.25	0.31	0.59	0.66	0.99	1.12	1.52	1.71	2.05	2.30
58" (147 cm)	0.11	0.13	0.34	0.43	0.76	0.94	1.30	1.64	1.98	2.48	2.65	3.36
72" (183 cm)	0.14	0.16	0.46	0.57	1.06	1.24	1.80	2.12	2.74	3.28	3.69	4.39
108" (274 cm)	0.18	0.22	0.59	0.80	1.34	1.73	2.26	2.97	3.46	4.58	4.82	6.42

Lower Compliance†

The presence of a septum in Limb-O decreases compliance in the circuit to significantly increase delivered volume without sacrificing drape

Size	40" (102 cm)	58" (147 cm)	72" (183 cm)	108" (274 cm)
Compliance	0.64 mL/CmH ₂ O	0.76 mL/CmH ₂ O	0.93 mL/CmH ₂ O	1.29 mL/CmH ₂ O

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* Data on file. Weight with connectors.

† Data on file. Compliance of circuit @ 100 cmH₂O

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