



Limb-O™  
Single limb breathing circuits

## Comprehensive solutions for anaesthesia and respiratory

Limb-O™ is a single tube anaesthesia breathing circuit. Unlike coaxial systems, the Limb-O is a divided tube, utilising a flexible septum running the length of the tube. There are many advantages to this design, which combines reduced weight per metre and lower compressible volume loss, with 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 approximately 10% of their heat because of cold, dry anaesthetic gases<sup>1</sup>. Limb-O effectively transfers heat from the expiratory to inspiratory side of the circuit, helping to reduce the patients energy demands and aiding in their ability to remain normothermic<sup>2</sup>. Limb-O's innovative tubing design supports clinicians' efforts in the delivery of a general anaesthetic.

### 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.<sup>3</sup>

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

### Lower compliance<sup>4</sup>

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/cm H <sub>2</sub> O	0.76 mL/cm H <sub>2</sub> O	0.93 mL/cm H <sub>2</sub> O	1.29 mL/cm H <sub>2</sub> O

Inspiratory and Expiratory Resistance												
Flow Rates	10 L/min (cm H <sub>2</sub> O)		20 L/min (cm H <sub>2</sub> O)		30 L/min (cm H <sub>2</sub> O)		40 L/min (cm H <sub>2</sub> O)		50 L/min (cm H <sub>2</sub> O)		60 L/min (cm H <sub>2</sub> O)	
Length	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

## Thermally efficient

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

### Latex free

### Circuit materials

Corrugated Tubing and Septal Wall - Polyethylene/EVA

22 mm Connectors – Polypropylene

Cuff Band - Polyisoprene

Expandable Extension Hose - Polypropylene

### Patient versatility

The Limb-O can be used for children and adults avoiding the need for different systems for different patients.

<sup>1</sup> Mild perioperative Hypothermia, Daniel I Sessler MD & Andrea Kurz MD.  
<sup>2</sup> Reference on file. Evaluation of the functional characteristics of the Limb-O anaesthesia breathing circuit.  
<sup>3</sup> Data on file. Weight with connectors.  
<sup>4</sup> Data on file. Compliance of circuit @ 100 cm H<sub>2</sub>O.



For more information, please contact your local Vyairē representative.

#### GLOBAL HEADQUARTERS

Vyairē Medical, Inc.  
26125 N. Riverwoods Blvd.  
Mettawa, IL 60045  
USA



EMERGO EUROPE  
Prinsessegracht 20  
2514 AP The Hague  
The Netherlands



CareFusion  
22745 Savi Ranch Parkway  
Yorba Linda, CA 92887  
USA



[vyairē.com](http://vyairē.com)

For Europe, Australia, Asia, Middle East and Africa distribution.

© 2018 Vyairē Medical, Inc. or one of its affiliates. All rights reserved. Vyairē and the Vyairē Medical logo are trademarks or registered trademarks of Vyairē Medical, Inc. or one of its affiliates. Medical devices class IIa according to Medical Devices Directive 93/42/EC. Please read the complete Instructions For Use that come with the devices or follow the instructions on the product labelling. | CF/805/18/0059