

Novalung® kitsHeart and Lung Therapies

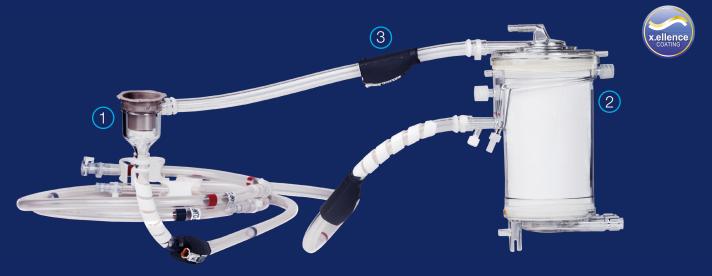
Our Novalung kits are used together with our console in LUNG ASSIST MODE for ECMO treatments

The intended use of the Novalung kits is extracorporeal gas exchange, pumping of blood and thermoregulation of blood.

Elementary features

- Certified for 29 days application period
- Matching pump sizes for 1/4" or 3/8" tubing
- x.ellence multilayer coating

 Wide range of extracorporeal respiratory support from CO₂ removal to oxygenation support



1 DP3 pump head

Novalung kits include the DP3 pump head, with a diagonal flow

- 1/4" with up to 2.4 I/min blood flow
- 3/8" with up to 8 l/min blood flow

2 Oxygenator

Different sizes to meet patients' needs

- Plasma-tight Polymethylpentene (PMP) multilayer coating
- Temperature management possible

(3) Integrated pressure sensors (IPS)

IPS without connectors and continous visibility

- No interruption of the tubing system allowing undisturbed blood flow
- Pressure measurement without blood contact reduces the risk of air aspiration
- No calibration during therapy necessary
- Design of the IPS sensors makes regular rinsing unnecessary and thus avoids hemodilution

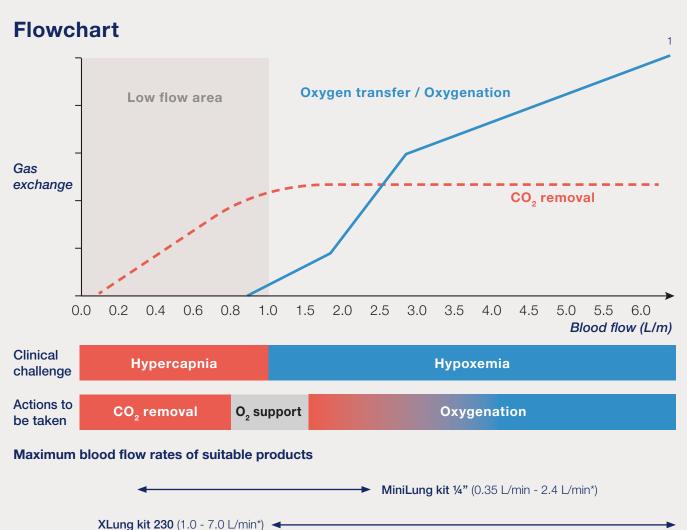
	XLung kit 230	MiniLung kit 1/4"	MiniLung petite kit
Article no.	32000014	32000001	32000003
Coating	x.ellence	x.ellence	x.ellence
Blood flow rate	1.0-7.0 L/min*	0.35-2.4 L/min*	0.10 - 0.80 L/min*
Tubing length	230 cm / 230 cm	199 cm / 199 cm	199 cm / 199 cm
Total priming volume kit	670 ml ± 10 %	240 ml ±10 %	195 ml ±10 %
Pressure measurement	IPS	IPS	IPS
Temperature management	✓	<u> </u>	√
Pump head size	DP3 3/8"	DP3 ¹ /4"	DP3 ¹ / ₄ "
Maximum gas flow rate	14 L/min	10 L/min	10 L/min
Maximum pressure on gas side	25 mmHg		12 mmHg
Maximum pressure on blood side	600 mmHg	600 mmHg	600 mmHg
Maximum recommended therapy pressure for intended clinical use	400 mmHg (53 kPA)	400 mmHg (53 kPA)	400 mmHg (53 kPA)
Maximum recommended water pressure	750 mmHg	750 mmHg	750 mmHg
Surface area of gas exchanger	1.9 m²	0.65 m²	0.32 m ²

^{*}Determined with a water-glycerol solution (viscosity: 4.0 cP) and a backpressure of 150 mmHg

Further information (single components)					
Gas exchanger					
Material	Polymethylpentene (PMP)	Polymethylpentene (PMP)	Polymethylpentene (PMP)		
Rest blood volume in the oxygenator	65 mL	53 mL	20 mL		
Pump head					
Pressure difference	0–600 mmHg/0–80 kPa	0-600 mmHg/0-80 kPa	0-600 mmHg/0-80 kPa		
Pump speed	0–10.000 U/min	0–10.000 U/min	0–10.000 U/min		
Size of blood inlet and outlet connectors	³/s" ; ³/s"	1/4"; 1/4"	1/4"; 1/4"		
Others					
Sterilization method	Ethylene oxide (EO)	Ethylene oxide (EO)	Ethylene oxide (EO)		
Measuring rate IPS	-400 mmHg to +400 mmHg (-53kPa to +53kPa)	-400 mmHg to +400 mmHg (-53kPa to +53kPa)	-400 mmHg to +400 mmHg (-53kPa to +53kPa)		
Accuracy IPS	± 1 % (0 to ± 50 mmHg) / ± 3 % (51 to ± 400 mmHg)	± 1 % (0 to ± 50 mmHg) / ± 3 % (51 to ± 400 mmHg)	± 1 % (0 to ± 50 mmHg) / ± 3 % (51 to ± 400 mmHg)		



End of 2016, Xenios became a part of Fresenius Medical Care, the world's leading provider of products and services for people with chronic kidney failure. 74076 Heilbronn · Germany · Phone: +49 (0)7131 2706 0



www.xenios-ag.com

Determined with a water-glycerol solution (viscosity: 4.0cP and a backpressure of 150mmHg
Schema and classification according to T.Staudinger: Extrakorporale Membranoxygenierung, Systemauswahl; MedKlin IntensivmedNotfmed 2017; 112:295–302; DOI 10.1007/s00063-017-0279-8

