

Acute Therapy Systems

# Novalung Kits

Safe, Simple, Fast

Certified for 29 days  
application period



**novalung**



**FRESENIUS  
MEDICAL CARE**

# Novalung Kits



## Safe

Integrated pressure sensors (IPS) elevate your patients' safety to the next level.



## Simple

Priming of the preconfigured kit requires just one person.



## Fast

Pump-driven priming in only two minutes.

## Elementary Features

- Certified for 29 days application period.
- Matching pump sizes for 1/4" or 3/8" tubing.
- x.ellence, a multi-layer coating for stable bio- and hemocompatible surfaces.
- Two different sizes and three different configurations for the full range of extracorporeal respiratory support from efficient CO<sub>2</sub> removal to full oxygenation

# Novalung Kits

## Safe Integrated Pressure Sensors (IPS)

Novalung kits enhance safety due to the elimination of pressure measurement lines:

- ▶ No air aspiration.
- ▶ No risk of clotting.
- ▶ No regular rinsing needed.
- ▶ No hemodilution in pediatric patients.



IPS without connectors and full visibility (front and rear view)

## Powerful Membrane Lungs

Novalung kits are available in two different sizes and three different configurations adapted to your patients' needs:

- ▶ Trusted and reliable design
- ▶ Plasma-tight PMP fiber and long-term multilayer coating.



Membrane lungs in two different sizes

## DP3 Pump Technology

Novalung kits include the DP3 pump head, a diagonal-flow pump with high hydraulic performance and reduced priming volume:

- ▶ Available with  $\frac{1}{4}$ " and  $\frac{3}{8}$ " connectors for improved flow dynamics.
- ▶ Fine adjustments of the flow rate even below 0.5 l/min.
- ▶ Both pump heads can be operated with the Xenios console.



DP3 pump heads:  $\frac{1}{4}$ " connector (left) vs.  $\frac{3}{8}$ " connector (right)



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MEDICAL CARE**

End of 2016, Xenios with its brands Novalung and Medos has become part of the FME family, the worldwide market leader in renal support.

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# Novalung Kits

## Technical Data Sheet



novalung

### Elementary features

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### Integrated Pressure Sensors (IPS)

- Measurement range: -400 mmHg to +400 mmHg
- Accuracy: ±1% (0 to 50 mmHg),  
± 3% (50 to 400 mmHg)
- Biocompatibility according to ISO 10993  
Defibrillation resistant



# Novalung Kits Technical Data Sheet

## Technical File

	MiniLung kit ¼"	XLung kit	XLung kit 230
Membrane lung	MiniLung	XLung	XLung
IPS	✓	✓	✓
Blood pump	deltastream DP3 ¼"	deltastream DP3 ⅜"	deltastream DP3 ⅜"
Tubing size for connection <sup>1)</sup>	¼"	⅜"	⅜"
Tubing length	200 cm/200 cm	182 cm/187 cm	230 cm/230 cm
Blood flow rate (according to ISO 7199)	0.35–2.4 l/min	1.0–7.0 l/min	1.0–7.0 l/min
Maximum recommended gas flow rate	10 l/min	14 l/min	14 l/min
Maximum pressure on gas side	12 mmHg	25 mmHg	25 mmHg
Maximum pressure on blood side	600 mmHg	600 mmHg	600 mmHg
Maximum recommended water pressure	750 mmHg	750 mmHg	750 mmHg
Surface area of gas exchange membrane	0.65 m <sup>2</sup>	1.9 m <sup>2</sup>	1.9 m <sup>2</sup>
Total priming volume of set	240 ml ± 10 %	605 ml ± 10 %	670 ml ± 10 %
Size of blood inlet and outlet connectors	¼" ; ¼"	⅜" ; ⅜"	⅜" ; ⅜"
Blood pump speed	0–10,000 rpm	0–10,000 rpm	0–10,000 rpm
Pump head	0–600 mmHg	0–600 mmHg	0–600 mmHg
Sterilization method	Ethylene oxide (EO)	Ethylene oxide (EO)	Ethylene oxide (EO)

1 For standard tubing connectors



In October 2016, Xenios became a part of Fresenius Medical Care, the world's leading provider of products and services for people with chronic kidney failure.

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