



vyaire™
MEDICAL

fabian +nCPAP evolution
our 3-in-1 device



When it comes to Life,
there is no Compromise

DISTRIBUTING WORLDWIDE

VYAIRE Medical manufactures and markets more than 27,000 unique products for the diagnosis, treatment and monitoring of respiratory conditions in every stage of life. We are a singular, focused company offering products in four areas: respiratory diagnostics, ventilation, airway management and operative care consumables. VYAIRE Medical develops, manufactures, and distributes high-tech ventilation and monitoring solutions for neonatal, pediatric and adult ICUs and intensive care transportation. When it comes to the most critical areas of respiratory care, we are the leading partner for hospitals in ICU, neonatology, pediatrics, jet ventilation, and difficult airway management.

FORWARD THINKING

Our aspiration is to develop innovative solutions that simplify the busy clinical routine for caregivers and increase patient safety. With over 30 years of experience and together with our global network of clinical experts, we are able to quickly translate new developments into real innovations – and keep challenging ourselves to improve and set new benchmarks.

EXPLORING WHERE OTHERS STOP

Our products have an excellent reputation for precision, quality, and service in the industry. We strive every day to provide the best solutions for the most challenging groups of patients. We continue to explore where others stop.



fabian +nCPAP evolution our 3-in-1 device

From delivery room to NICU: the fabian +nCPAP evolution offers the best respiratory treatment solutions – normally available from different devices – in a single device.

EASE OF USE

Putting the focus back on the baby: the fabian +nCPAP evolution is designed from a user's point of view, minimizing the time needed to manage ventilator controls.

DEVELOPMENTAL CARE

Particularly silent, optimized handling of the baby, bonding and kangaroo care. The fabian +nCPAP evolution is designed to fully support these concepts in a low-stress environment.

PATIENT SAFETY

Keeping babies safe and protected whenever they are ventilated is the starting point of all our thoughts – and that includes easy maintenance with only few parts for disinfection and sterilization, reduced Work Of Breathing (*iWOB*) and much more.

MODULARITY

Future-oriented: in addition to the pre-integrated conventional and triggered ventilation modes, any option that may be required in the future can be configured according to your needs.

MOBILITY

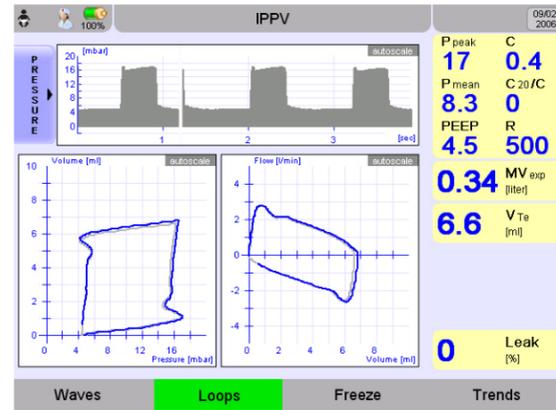
Designed for mobility: thanks to its compact and intelligent size, the fabian +nCPAP evolution allows easy access to the baby at all times without even disturbing the bedside inside the NICU or PICU.

COMPATIBILITY & INTERFACE

The fabian +nCPAP evolution is equipped with several communication interfaces and service modes. This flexible system is also compatible with all conventional breathing circuits currently available on the market.

Ease of use

A clear, bright touch-screen TFT with intuitive commands reduces human error and puts the focus back on the baby.



GRAPHICS

See waveforms, numeric data, loops, ventilator status, and more. Clearly displayed and represented.

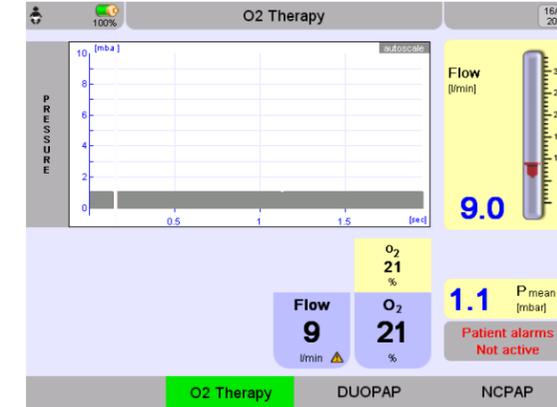


ONE-TOUCH PRINCIPLE

All operation procedures are carried out using a direct, time-saving and easy-to-understand one-touch principle.

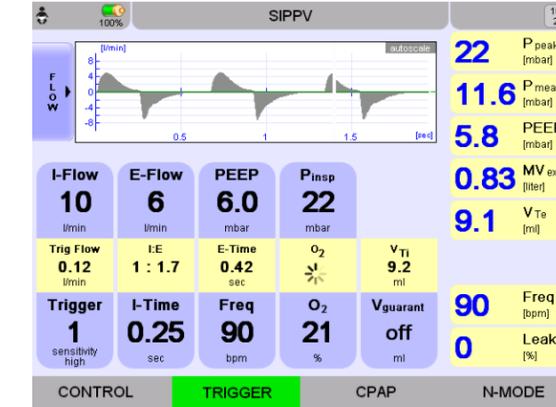
Modularity

A true modular system with a variety of ventilation modes for the ventilator configuration you need – more can be added and enabled whenever desired.



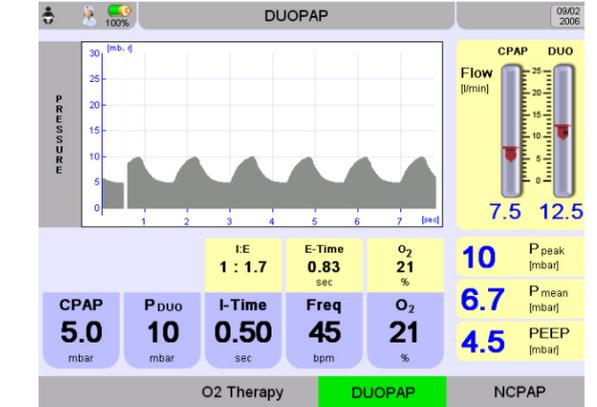
3-IN-1

All necessary neonatal and pediatric conventional ventilation modes, non-invasive ventilation modes and O₂ therapy mode with High Flow Nasal Cannula (HFNC) integrated in one device.



FUTURE-ORIENTED

Neonatal and pediatric ventilation modes (IPPV, SIPPV, SIMV, PSV and SIMV+PSV) with independent adjustment of inspiratory and expiratory flow may reduce the work of breathing and inadvertent PEEP.



VENTILATION BEYOND LIMITS

nCPAP and DuoPAP modes, for nasal and mask ventilation, with automatic leak compensation, featuring two-level CPAP mode to improve CO₂ removal. DuoPAP can be Flow Synchronized (S-DuoPAP) to achieve a perfect harmony with the supported spontaneous breathing.

Developmental care

Premature babies are fragile. One of their special needs is quiet time for normal growth and development. The fabian +nCPAP evolution is equipped with an electromagnetic expiratory valve and highly precise electronic flow meters, making it one of the quietest ventilator in the world today – without using silencers.

Patient safety

On the receiving end of our ventilators are the tiniest and most fragile patients imaginable. Keeping them safe and protected whenever they are ventilated is our first priority of all our thoughts.

- **Integrated lock function** to prevent inadvertent settings.
- **Easy maintenance** with few parts for disinfection and sterilization without any risk of infection inside the ventilator.
- **No bacterial filters** and therefore no risk of increased resistance during humidified ventilatory therapies.
- **Optimal support** with reduced Work Of Breathing (*iWOB*).
- **Reduced error risk** thanks to the self-training ACUTRONIC concept inside.
- **Built-in backup battery pack** for up to 3 hours of self-powered operation.





Designed for mobility

Medical technology should speed up and simplify the work flow of clinicians. Interfaces should be familiar and intuitive. They should be consistent across different workstations, thus reducing the potential for error. Data should be entered just once and be available across multiple platforms to support decision-making.

Ultimately, innovations in ventilator design and clinical information management can improve both patient safety and outcomes, while supporting maximum flexibility.

COMPREHENSIVE DEVICE

Allowing easy access to the baby at all times. No disturbances at the bedside in NICU/PICU from device reshuffles.

LIGHTWEIGHT UNIT

Designed for safe, practical transportation with integrated electronic gas blender and built-in battery.

Compatibility & interface



SERVICE MODE

Service mode with advanced diagnostics via USB port, standard Ethernet connection.



FLEXIBLE & SCALABLE

The system is flexible and can be used with all conventional breathing circuits currently available on the market.



COMMUNICATION INTERFACE

Digital interface with hospital information systems, download settings and monitoring data.

The new fabian family

The new fabian generation consists of three Gold Club members. Each one represents the benchmark in its class, either in non-invasive, conventional or sophisticated high frequency ventilation. They are configured for your specific needs and can be upgraded with further options.



fabian HFO our 4-in-1 device

The latest edition of fabian HFO comes with the HFO fully integrated into the inspiratory port. No additional tubing for HFO needed. Furthermore, the fresh gas port allows for easier use of NO systems. The fresh gas port also function as the nCPAP port, making it even easier to switch modalities.



fabian +nCPAP evolution our 3-in-1 device

The fabian +nCPAP evolution is a therapy system encased in a small yet powerful device. Ideal for NICU, PICU and transport applications.



fabian Therapy evolution our 2-in-1 device

The fabian Therapy evolution is the smallest but not the least powerful fabian family member. A true, complete and highly advanced non-invasive ventilator featuring all classic and new NIV modes.



Finding your device

Non-invasive, conventional or sophisticated high frequency ventilation. No matter which product you choose, you're getting a device that features the latest technology and is ready to ventilate beyond limits.

	fabian Therapy evolution	fabian +nCPAP evolution	fabian HFO	fabian Therapy evolution	fabian +nCPAP evolution	fabian HFO
Main Features				Ventilation Modes		
O ₂ Monitor (FiO ₂)	●	●	●	CPAP	-	●
Electronic Gas Blender	●	●	●	IPPV-IMV	-	●
Inspiratory and Expiratory Flow (Bias)	-	●	●	SIPPV (A/C)	-	●
Leak Compensation	●	●	●	SIMV	-	●
Integrated Battery	●	●	●	SIMV + PSV	-	●
Color TFT Display	●	●	●	NIV (nCPAP, duoPAP)	●	●
Touch-screen Display	●	●	●	NIV Trigger	○	○
Volume Trigger/Flow Trigger/Pressure Trigger	○	●	●	HFO	-	●
Curves: Pressure	●	-	-	Volume Limit	-	○
Curves: Pressure/Volume/Flow	○	●	●	Volume Guarantee	-	●
Loops: F/P, P/V	-	●	●	O ₂ High Flow Therapy	●	●
Advanced Monitoring				O ₂ Flush	●	●
CO ₂ Module (Side or Main-stream)	-	-	○	Manual Breath	●	●
SpO ₂ Module (Masimo)	○	○	○			
PRICO	○	○	○			
PDMS	○	○	○			
FOT	-	-	○			

● = standard ○ = optional

Technical specifications

Functionality

The **fabian +nCPAP evolution** is intended for premature infants, newborns as well as children weighing up to 30 kg.

Intended Use

The **fabian +nCPAP evolution** is intended for "in-patient use" in hospitals, medically-used rooms and intra-hospital patient transport.

The **fabian +nCPAP evolution** is an electronically, microprocessor controlled ventilator

The **fabian +nCPAP evolution** ventilates with excess pressure based on the continuous-flow principle. (Time-cycled, pressure-/volume-limited)

Oxygen concentration (FiO_2) is metered by the integrated air/ O_2 electronic blender.

The oxygen concentration (FiO_2) is measured internally with a galvanic oxygen sensor

Ventilation modes

IPPV (*IMV*) -Intermittent Positive Pressure Ventilation (and *nIPPV*)

SIMV - Synchronized Intermittent Mandatory Ventilation (and *nSIMV*)

SIPPV (A/C) - Assisted Controlled Ventilation (and *nSIPPV/SNIPPV*)

CPAP - Continuous Positive Airway Pressure (and *nCPAP with dual limbed circuits*)

PSV - Pressure Support Ventilation

SIMV + PSV
Synchronized Intermittent Mandatory Ventilation combined with PSV

Volume Guarantee (VG)

Ventilation modes (cont.)

Non-Invasive Ventilation (*NIV*) - nCPAP/duoPAP with variable flow generators (i.e. *Infant Flow LP®*), option

NIV Trigger: S-duoPAP (*Synchronized duoPAP*) and Apnea Detection

HFNC (*HFOT*) - O_2 Therapy, option

PRICO (*PRedictive Intelligent Control of Oxygenation*), option with Masimo® SpO_2 sensor technology

Enhancements

Apnea ventilation

Backup ventilation

Combined SIMV + PSV ventilation

Flow trigger

Volume trigger

Pressure trigger

Adjustable PSV termination criteria

NIV with leak compensation

NIV Trigger, for flow triggered duoPAP and Apnea detection.

Flow and Volume waves in nCPAP (*NIV*)

SpO_2 with Masimo® SpO_2 sensor technology

Volume Guarantee

Volume Limit

Demand flow in CPAP

Special procedures

Manual inspiration/hold (*Sustained Lung Inflation*)

PRICO, option

F.O.T. - Forced Oscillation Technique

Dimension

(*W x H x D*) 24 cm x 27 cm x 35 cm

Approx. 10 kg

Diagonal screen size 5.7"

TFT color touch-screen with LED backlight

Keypad with 10 buttons

Input and output ports

1 USB port (*for SW updates*)

1 RS 232 (*9 pin*) port for PDMS/HIS

1 RJ 45 Ethernet port for PDMS/HIS

1 nurse call connector

External trigger connector

Designed in Switzerland

The fabian +nCPAP evolution is the result of more than 30 years of experience in design, development and craftsmanship. Powerful components such as long-lasting battery packs, innovative modules like a one-piece expiratory valve and a cleverly reduced assembling concept with easily accessible parts make this device user-friendly.

Together with a customized service program, fabian helps to minimize the cost of ownership.





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