



Because OUTCOMES matter
BEYOND the NICU.

fabian™ Therapy evolution

neonatal ventilator

TECHNICAL SPECIFICATIONS

 **vyaire**™
MEDICAL

fabian™ Therapy evolution

The fabian™ Therapy evolution is a complete and highly advanced non-invasive ventilator featuring all classic and modern NIV modes.

The fabian Therapy evolution is intended for premature infants, newborns as well as children weighing up to 30 kg. Oxygen is metered by the integrated Air/O₂ blender. The oxygen concentration is measured internally with a galvanic oxygen sensor.

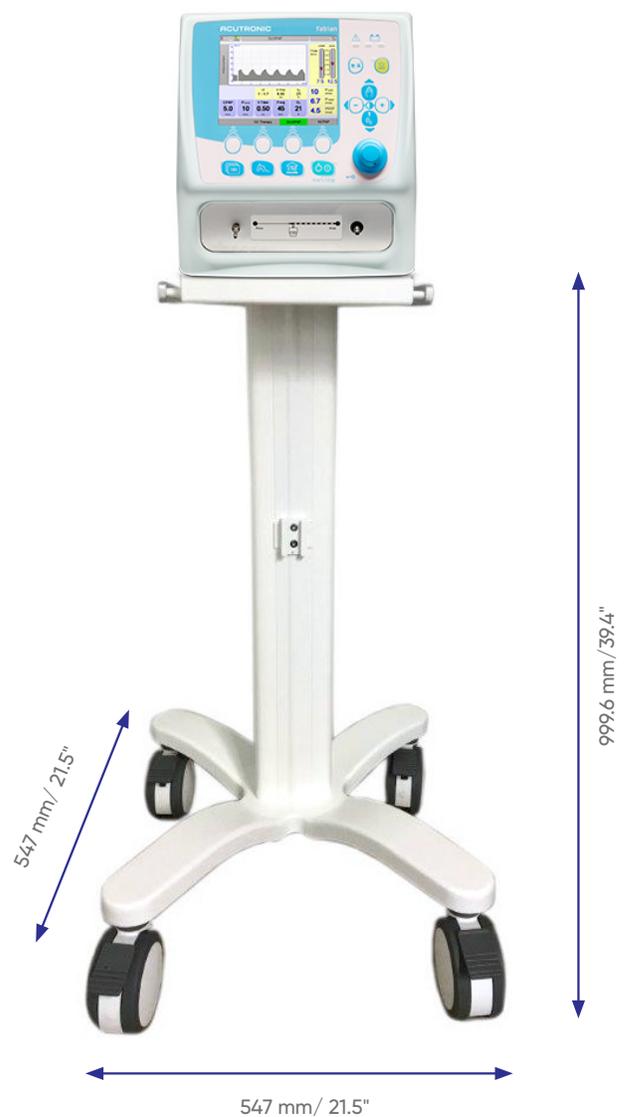
Area of care

Hospitals

Medically-used rooms

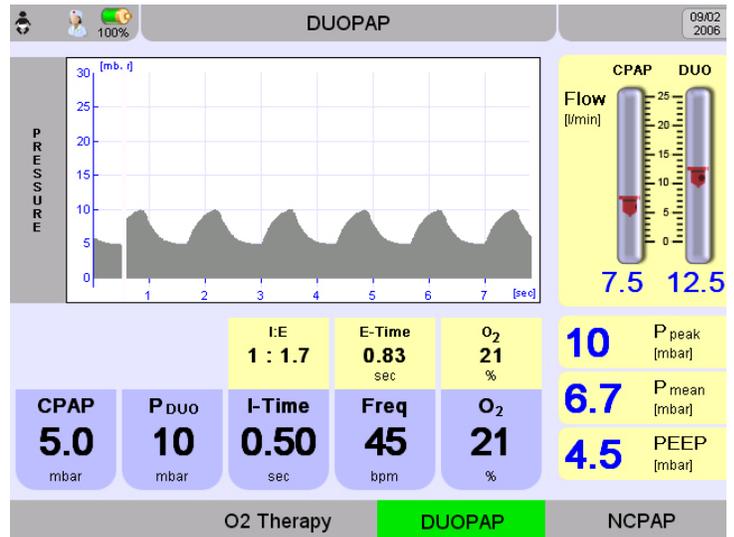
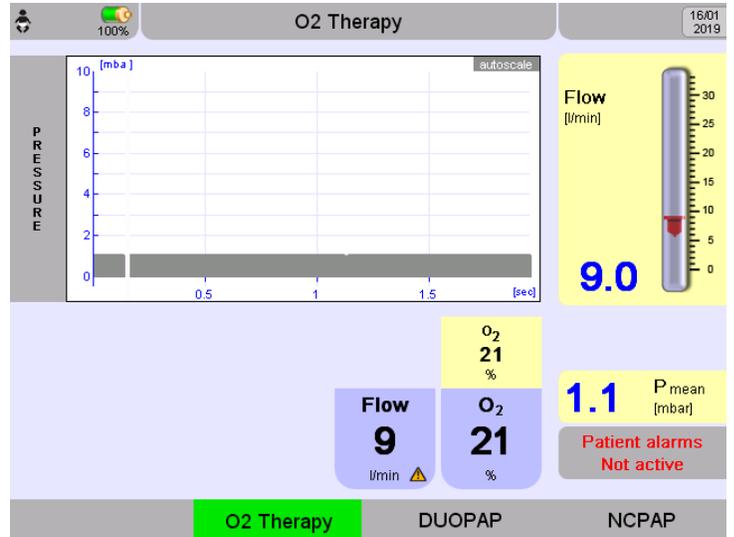
Intra-hospital patient transport

Required space



Ventilation features and options

nCPAP	Supplies a positive airway pressure with automatic leak compensation. The maximum flow compensation is selectable by menu.
DUOPAP	Same as nCPAP but with the option of positive pressure ventilation with adjustable frequency and inspiratory time.
O ₂ Therapy	O ₂ Therapy is an option which allows use of a continuous flow of blended gas, between 0 to 15 L/min in NEO and 0 to 30 L/min in PED mode. Nasal cannulas of various makes like F&P, Atom or similar can be used. There are no alarm functions active in this mode, except for the set FiO ₂ .
PRICO	Predictive Intelligent Control of Oxygenation (PRICO) is the next generation of Intelligent Closed-Loop FiO ₂ /SpO ₂ control, maintaining the patient's SpO ₂ within the desired range. Together with the Masimo Set® SpO ₂ sensor, its unique algorithm FiO ₂ adjustments are performed automatically, quickly, and reliably. PRICO not only supports caregivers in their daily goal for best possible patient comfort and safety, but also helps clinicians save time, reduce cost, and improve their workflow.



Ventilation Modes

Neonatal/Pediatric

Overview of ventilation modes

Single limb (active nasal interfaces)

nCPAP	Nasal Continuous Positive Airway Pressure	●
DuoPAP	Dual Positive Airway Pressure	●
sDuoPAP	Synchronized Dual Positive Airway Pressure	○
Selectable NIV generators	Infant Flow™, Infant Flow™ LP, Inspire, Medijet	●

O₂ Therapy

O ₂ Therapy	●
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● Standard feature

○ Optional

Features and Options

Backup Rate	●
Manual Breath	●
Alarm delay	●
Alarm Autoset	●
Automatic Flow adjustment	●
Automatic Leak compensation (%)	●
Leakage compensation (On, Off)	●
Nitric Oxide compatibility	●
Standby mode	●
Patient data input	●
Flow trigger	●
Pressure trigger	●
Various screen layouts	●
Safety Parameter Lock	●
PRICO Closed Loop FiO ₂ -SpO ₂	○
SpO ₂ module	○
PDMS	○

Maneuvers

Inspiratory Hold	●
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Nebulization

USB Mesh Nebulizer (Aeroneb)	○
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Waveforms

Flow	●
Pressure	●
Volume	●
SpO ₂	○

Trending Data

FiO ₂	●
Freq	●
Pinsp	●
SpO ₂	○
SpO ₂ PI	○
SpO ₂ PR	○

Additional Graphics

PRICO	○
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Test & Calibrations

System test during start up	●
Flow sensor calibration	●
Oxygen sensor calibration	●
Automatic O ₂ calibration	●
SpO ₂ sensor	○

Diagnostics

SpO ₂ integrated	○
SpO ₂ Technology	Masimo SET
Perfusion Index	○
Quality Index SpO ₂	○
Pulse rate	○

● Standard feature

○ Optional

Settings

Modes of Ventilation Neonatal/Pediatric

nCPAP	
CPAP [mbar]	2 – 13
Pmanual [mbar]	5 – 15
Manual Breath Time [s]	2 – 30
Leak Compensation [%]	Off; 10, 20, 30
O ₂ [%]	21 – 100
O ₂ Flush [%]	23 – 100
O ₂ Flush Time [s]	Off, 30, 60, 120

DuoPAP/DuoPAP Trigger	
CPAP (Lower pressure) [mbar]	2 – 13
PDUO (Upper pressure) [mbar]	5 – 15
I-time [s]	0.15 – 15
E-time [s]	0.2 – 30
Frequency [1/min]	2 – 60
Trigger [Flow/Pressure]	1 – 10
Leak Compensation [%]	Off; 10, 20, 30
O ₂ [%]	21 – 100
O ₂ Flush [%]	23 – 100
O ₂ Flush Time [s]	Off, 30, 60, 120

O ₂ Therapy/HFNC	
Flow min [L/min]	Off, 1 – 30
O ₂ [%]	21 – 100
O ₂ Flush [%]	23 – 100
O ₂ Flush Time [s]	Off, 30, 60, 120

Special Features Ranges

PRICO	
Modes	O ₂ Therapy, DuoPAP, nCPAP
Minimum allowed FiO ₂ [%]	21 – 99
Maximum allowed FiO ₂ [%]	22 – 100.
SpO ₂ low target [%]	0 – 99
SpO ₂ high target [%]	1 – 100

Measuring	Ranges	Resolution
Airway Pressure Measurement [mbar] PIP, PEEP, Pmean, Phigh, Plow, Hfamp	10 – 110	0.1 – 1
Respiratory rate Measurement [bpm] RR, RRmand, RRspn	0–250	1
Inspiratory O ₂ concentration Range [%]	18 – 100	1
SpO ₂ [%]	1 – 100	1
SpO ₂ Pulse [bpm]	25–240	1

Alarm Limits ¹	Upper limit	Lower limit
PIP [mbar] (in DUOPAP mode)	-4 – 30	-
PEEP [mbar] (in DUOPAP mode)	-	-5 – 19
CPAP [mbar] (in nCPAP mode)	-4 – 30	-5 – 19
Frequency [bpm]	10 – 220, Off	-
Apnea [s]	2 – 20, Off	-
Pulse Rate [bpm]	35 – 235, Off	Off, 30 – 230
Perfusion Index [%]	-	Off, 0.03 – 19
SIQ [%]	Off, 5 – 100	-
SpO ₂ [%]	2 – 99, Off	Off, 1 – 98

Interface

Noise Level

Sound pressure level	40 dB(A)
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Connectors

Connectors	Capability
RS232 Data port	1 x
Patient Data Management Systems	<ul style="list-style-type: none"> • Capsule Technologies • Philips: <ul style="list-style-type: none"> o protocol IVOI (modules: IntelliVue / IntelliBridge EC5-EC10 / VueLink) o protocol IHE HL7: IntelliBridge EC40/80 modules o protocol HL7: IntelliSpace Critical Care and Anesthesia (ICCA) system • GE Healthcare • Cerner • Dräger • AGFA • Mindray • METAVISION iMDSofT
USB Power port for nebuliser	●
USB Data port	●
Nurse call	●
SpO ₂	●

Data Storage

Data Storage	Capacity
Alarms	1,000 messages
Event logs	10 Log Files
Trends	5 days
Storage interval	every 30 seconds

Log is stored during power failure.
When log capacity is reached, index is shifted, and oldest log file deleted.

Ambient Conditions	Storage	Operation	Transportation*
Temperature	0 – 40° C (+32 – 104° F)	10 – 40° C (+50 – 104° F)	-20 – 60° C (-4 – 140° F)
Relative humidity	20 – 80%, non-condensing	10 – 90%, non-condensing	10 – 90%, non-condensing
Atmospheric pressure (hpa)	70 – 106 kPa	70 – 160 kPa	50 – 106 kPa

* The ventilator within its shipping package will maintain basic safety and essential performance characteristics following shipping and transport for up to 72 hours

● Standard feature

Technical Data

Display/User Interface

Integrated Colour display (inch)	LED TFT, 5,7"
Resolution	XGA, 1024x768
Touchscreen	●
Touchscreen operation	●
Keypad/Rotary knob operation	●
Display freeze	●
Touch lock	●

Battery

Internal Battery status display	●
Empty Battery alarm	●
Internal Battery, conventional (min)	180

Oxygen Sensor

Galvanic	●
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Pneumatic Connectors

Inlet gas pressure Air/O ₂	2.0 – 6.0 bar / 29 – 87 PSI
Proximal airway	●
Fresh gas port	●

Power AC

Power supply	100 – 240 VAC, 0.5 – 0.9 A, 50/60 Hz
Min. power consumption	35 W
Max. power consumption	70 W

Dimensions

Device (w x h x d, mm)	240 x 270 x 350
Weight ventilator	9 kg/19.8 lbs
Safety class	Type BF
Classification according to EC directive 93/42/EEC	Class II b
IP Protection	IP22

Units

Pressure monitoring	mbar, cmH ₂ O
Pressure input	bar

- Standard feature

NOTES

1 Complete overview of alarms in the user manual

Not all options are available in every country.

Please contact your local dealer or contact us on www.vyaire.com for further information

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