eXtending peace of mind



To provide the most effective care

Medical teams should be able to use the same ventilator to meet the requirements of all patients and all clinical situations.

Treating all types of patients

eXtend^{xT} is specially designed to provide effective treatment to all categories of patients, whether adults, children or infants.

Considering all treatment strategies

The many modes available, from the simplest to the most advanced, provide a response to all clinical situations and all treatment requirements: controlled ventilation, assisted ventilation, invasive or non-invasive ventilation.

eXtending the optimization of purchasing and operating costs

- Optimizing the value for money
- Reducing training times thanks to the extreme simplicity of the interface
- Treatment effectiveness:

 eXtend^{XT} provides all
 the tools required for the
 effectiveness and constant
 improvement of treatment
 and, as a result, could help to
 reduce the number of days of
 ventilation in intensive care
- A ventilator for all patients and all treatment strategies: eXtend^{XT} suits the changing ventilation requirements during treatment, for any type of

- An open-ended ventilator: eXtend^{XT}'s original design can be updated for compatibility with future system upgrades, whilst guaranteeing the ergonomic qualities of its interface
- Consumables and accessories:
- no cost related to specific consumables
- accessories available for eXtend^{xt} integration in its environment



Non-Invasive Ventilation

NIV using eXtend^{XT} provides exceptional ventilation capabilities, to avoid complications related to intubation.

eXtend^{XT} provides detection and automatic compensation of leakages and appropriate alarm management.



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EXTEND^{XT}



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eXtending simplicity

Ventilators are more and more performant and offer ever-more advanced functionalities, often making them more complicated to use. To allow medical teams to make the most of the clinical performance and functionalities of a ventilator, Air Liquide Medical Systems has developed **eXtend**XT, an exclusive ergonomic layout, for outstanding user-friendliness.



Who are we?

Air Liquide Medical Systems

a subsidiary of the Air Liquide Group, is an expert in ventilat

and respiratory medical equipments. Its 400 employees are committed to design,

ntilation, anesthesia ntilation, distribution and ministration of medical

committed to design, nufacture and sell innova

To reach simply the **best performance**

eXtending visibility

Advanced patient monitoring and data



The medical teams should have

they need at all times. eXtendx7

has a complete, configurable

monitoring system with many

A MONITORING SYSTEM

ACCORDING TO THE

PATIENT'S CLINICAL

• Display of 1 to 4 curves

advanced monitoring capabilities.

THAT CAN BE CONFIGURED

the information and data

recording

To make the **best decisions**

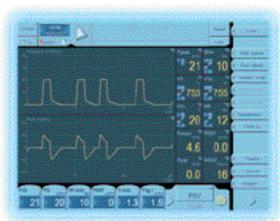
Fast and easy to use

INTUITIVE FAMILIARIZATION AND OPTIMISED TRAINING A single and intuitive principle

of use with: an automatic using help window - settings and parameters selecting markers

FAST AND SIMPLE USE

A single page with a 15 inch large touchscreen giving a highly structured layout with fully dedicated areas



AUTOMATIC USE

An appropriate page with information selected automatically according to the relevance of the context - KevContext™ Menu an integrated and programmable nebulization

Volume Controlled Ventilation (Assist./Cont.): VCV Pressure Controlled Ventilation (Assist./Cont.): PCV Synchronized Intermittent Mandatory Ventilation: V-SIMV and P-SIMV Pressure Support Ventilation (PS-PEEP): PSV

Volume Assured Pressure Support: VAPS

Airway Pressure Release Ventilation: APRV

Duo Levels: Bi-level pressure ventilation

Inverse Ratio Ventilation: IRV

Ventilation modes - Non Invasive Ventilation

Non Invasive Spontaneous Ventilation with pressure support and PEEP, CPAP, VCV-NIV, PCV-NIV, SIMV-NIV, PSIMV-NIV, PSV-NIV and PS-PEEP NIV

Static compliance and resistance: Automatic measurement in VCV Dynamic compliance and resistance: Measurement is possible

Curves: Flow (t), Pressure (t), Volume (t) and EtCO₂ (t)

Loops: P/V. V/F. F/P and FiO Trends: 13 days for 14 parameter:

Events log (ventilation and alarms settings, pauses): 10,000 events Rapid Shallow Breath Index (RR/VT)

Spontaneous respiratory rate (Pulse RR)

Because each patient represents a

different clinical case and because medical teams have different requirements and work habits, **eXtend**^{xt} lets you personalize the

Integration into

intensive care unit

Configuration of the curves and

measurements displays

interface at any time.

• Personalized configuration of the ventilation parameters: settings (TI/Ttot and I:E ratio, adjusting TI), alarms, etc.

Patient safety

The quality and safety of ventilation must be ensured throughout treatment. Air Liquide Medical Systems develops effective systems that ensure the safety of the patient at every stage in the use of **eXtend**^{xT} and under the best possible conditions.

- Fully automated tests to eliminate the risk of error in initializing the
- Help window for settings
- A fully dedicated alarm zone, carefully designed for the management of gravity and priority levels of events

of which 4 are configurable

CONDITION

A COMPLETE MONITORING SYSTEM

• Display of 10 measurements,

- Real time waveforms: pressure, flow, volume, CO₂, etc.
- Loops and curves
- Availability of 100% measured data including leak percentage, EtCO₂, plateau pressure, etc.
- Superimposition of loops (referral loops)

DATA RECORDING AND

PATIENT EVOLUTION

- Recorded real time waveforms: 2 days
- Continuous trends: 3 hours
- Saved trends: up to 13 days
- Saving of reference loop curves and superposition possibility
- ActiveX OTP: real-time export of patient data

A diagnosis tool

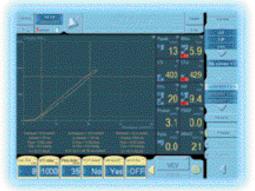
Air Liquide Medical Systems has developed very advanced functionalities to provide analytical tools that are a guide to diagnosis and help to improve the clinical decision-making process.

AN EASY TO USE DIAGNOSIS TOOL

- Direct access to ventilation settings and the most advanced diagnostic aid functions
- Values calculation automatically shown in a dedicated window

A PRECISE DIAGNOSIS TOOL

- A precise and advanced functional exploration of the lung mechanics for each patient: direct acces to the "FREEZE CURVE" function with intuitive cursors, an automatic calculation and displays of measurements
- Tools to determine the most suitable ventilator settings for the respiratory characteristics of the patient:
- inspiratory and expiratory pauses
- resistance and compliance static measurement
- LIP and UIP
- insufflation and exsufflation flow
- Automatic measurement of alveolar recruitment with LIP and UIP



KeyContext™ Menu

nfiguration of the interface: pressing a chosen screen's block, displays the KeyContext™ Menu and automatically provides access to the pertinent information and functions.





eXtendXT High-end critical care VENTILATOR: Technical Specification

Ventilation modes - Invasive Ventilation

Continuous Positive Airway Pressure: CPAP

Mandatory Rate Ventilation: MRV (Patented feature)

Pressure Regulated Volume Control: PRVC Intermitted Mandatory Pressure Release Ventilation: IMPRV

PEEP and AUTO (Intrinsic) PEEP: Automatically measured Plateau Pressure: Automatic measurement in VCV

Monitoring of FiCO₂ and EtCO₂

Spontaneous expired minute volume (Pulse MVe)

Automatic measurement of alveolar recruitment with LIP and UIP

Tidal Volume (VTi): 20 to 2000 mL Inspiratory peak flow: 0 to 200 L/mir

Maximum Inspiratory peak flow: >200 L/min (depending on gas supply pressure) Respiratory rate (RR): 5 to 100 bpm

SIMV respiratory rate (RR SIMV): 1 to 60 bpm Inspiratory plateau (Tplat): 0 to 60% of T Inspiratory Time (TI): 0.2 s to 5 s

Inverse Ratio (IRV): up to 80% of Ttot Positive End Expiratory Pressure (PEEP): 0 to 40 cmH₂O Pressure Support (PS): 0 to 35 cmH₂O Inspiratory Pressure (PI): 2 to 60 cmH₂O

Peak Inspiratory Pressure: 90 cmH₂O Pressure Slope (slope): 50 to 150 cmH₂O/s Flow wave shape: Constant, decelerating, sinusoida FiO₂: 21 to 100% (100% FiO₂ for suctioning is available)

Pressure = 0.1 to 5 cmH₂O Flow - 1 to 20 I /min Expiratory Trigger: 0 (OFF) to 70% of peak flow

Inspiratory pause: 0 to 5 s Expiratory pause: 0 to 12 s Sustained exhalation: 0 to 30 s Sigh rate: OFF, 1/9 to 1/200 cycles

Nebulization: Programmable volume-compensated nebulizer with auto Communication interface: Optional

Built-in battery backup

(Detailed datasheet is available on request)