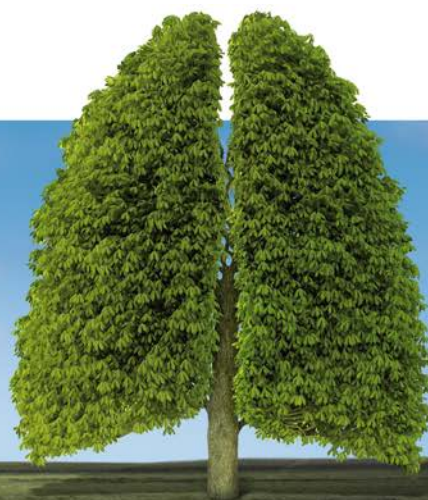


# WILAméd

*Equipment for Professionals*



## WILAméd INTENSA Intensive Care Ventilator System

[www.wilamed.com](http://www.wilamed.com)



CE 0197

# WILAméd INTENSA Ventilator System

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The **WILAméd INTENSA** is a full invasive and non-invasive life-support ventilator, solely designed for the ventilation of the critically ill neonate/infant, pediatric or adult ICU patient.

The **WILAméd INTENSA** features a comprehensive range of ventilation modes, advanced monitoring capabilities, and additional options such as the advanced WILAméd AIRcon Respiratory Gas Humidifier and breathing circuits, which all can be personalized to the clinician's specific demands.

**Two ventilators in one** – Users have the flexibility to use the **WILAméd INTENSA** for both – invasive and non-invasive therapy – enabling the treatment of a wider range of patient groups and conditions in acute and subacute care. It also helps to reduce inventory and equipment costs, since the **WILAméd INTENSA** eliminates the need to switch to a dedicated non-invasive ventilator when patients are extubated.

Standard built-in batteries are providing uninterrupted care for up to three hours, e.g. during intra-hospital transport.

To provide the most effective care to all the different patients, the **WILAméd INTENSA** features:

- Automated Quick-Set up in less than 2 minutes (AQS)
- Auto tube compensation (ATC)
- Controlled or Assisted Ventilation
- Volume or Pressure-targeted ventilation modes
- Invasive or non-invasive ventilation
- Smart Suction (SSP)
- Automatic measurement of static compliance, airway resistance, intrinsic PEEP and EtCO<sub>2</sub> \*)
- Adjustable Expiratory Sensitivity (5 – 80 %)



# INTENSA



# WILAméd INTENSA



## Simple and intuitive interface

With its detachable 38.1 cm (15") color TFT LCD touch screen the **WILAméd INTENSA** provides an intuitive interface, which can be rotated by 180 degrees around the user in many different directions and angles, allowing better observation and action.

## Lung mechanics monitoring

Advanced and automatic measurement of static compliance, airway resistance, flow trigger sensitivity and intrinsic PEEP for easy determination of the most suitable ventilator settings according to the patient's ventilatory patterns.

## Powerful monitoring functions

The **WILAméd INTENSA** displays ventilator settings automatically in dedicated windows, showing up to five real time wave and loop forms which can be analyzed with the "FREEZE" function by using the intuitive cursor. Results of the measurements are automatically displayed on screen.

The quality of the treatment and the safety of the patient during the entire time of ventilation is secured by an intelligent and highly effective alarm system, which is designed to prevent the patient from harmful events

# Ventilator System

## Optional Respiratory Gas Humidification for improved airway clearance

In normal respiration, the upper airway helps to warm and humidify inspired gas, and to retain the warmth and moisture contained in expired gas.

During inspiration even cold or dry air is typically heated to 37 °C and fully saturated, containing 44 mg/L. In mechanical ventilation or anesthesia the patients upper airway may be bypassed by the introduction of a tracheal- or tracheostomy tube.

As a result the patient's lungs may be confronted with dry inspired gas.

The drying and cooling effect is exacerbated by the presence of the tracheal- or tracheostomy tube, the normal process of reabsorption of heat and moisture by the upper airway during expiration is lost.

Prolonged exposure to dry ventilatory gases can lead to severe complications, such as:

- Localized inflammation of the trachea
- A reduction in ciliary function
- Retention and thickening of secretions
- Lowering of patients temperature
- Reduction in cardio/pulmonary function
- Increased risk of tracheostomy tube occlusion



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## Lockout Features

- Automated Quick-Set up in less than 2 minutes
- Neonatal application down to 2.5 kg
- Built-in 3-hour batteries, providing hours and minutes remaining
- Heated Expiratory Valve
- Integrated nebulizer
- 100 % Touch Screen Interface
- Detachable 38.1 cm (15") Display
- Integrated Oxygen Monitoring
- Smart Suction (SSP)
- Auto tube compensation (ATC)
- Automatic measurement of static compliance, airway resistance and intrinsic PEEP
- INSP and EXP hold up to 30 sec
- Esens 5 – 80 %
- Possibility to set Tslope on Volume Control Mode
- Five waves and loops displayed on one screen
- EtCO<sub>2</sub> Ready

## Modes of Ventilation

- Volume Controlled (VCV), Assist/Control
- Pressure Controlled (PCV), Assist/Control
- Pressure Regulation Volume Controlled (PRVC), Assist/Control
- Synchronized Intermittent Mandatory Ventilation, SIMV (VCV) + PSV, SIMV (PCV) + PSV, SIMV(PRVC) + PSV
- Spontaneous Ventilation (SPONT/CPAP) + PSV
- Bi Level Ventilation (BIVENT/APRV) + PSV
- Non invasive Ventilation (NIV/CPAP + PSV, NIV/PCV)
- PV Tool (Protective Ventilation Tool)

## Parameters and Ranges

<b>Tidal volume:</b>	5* – 2500 ml (in PC) 20 – 2500 ml (in VC)
<b>Respiratory rate:</b>	1 – 120 bpm
<b>Inspiration time:</b>	0.2 – 9 s
<b>Inspiratory pause time:</b>	0 ~ 4 s
<b>Tslope:</b>	0 ~ 2 s
<b>FiO<sub>2</sub>:</b>	21 % ~ 100 %
<b>PEEP:</b>	0 – 50 cmH <sub>2</sub> O
<b>CPAP(NIV):</b>	2 – 20 cmH <sub>2</sub> O
<b>Psupport:</b>	0 – 90 cmH <sub>2</sub> O pp
<b>Pinsp:</b>	5 – 90 cmH <sub>2</sub> O
<b>Phigh:</b>	5 – 90 cmH <sub>2</sub> O
<b>Plow:</b>	0 – 50 cmH <sub>2</sub> O
<b>Esens:</b>	5 % ~ 80 %
<b>Flow patterns:</b>	square, decelerating
<b>Inspiratory hold</b>	
<b>Expiratory hold</b>	
<b>Nebulizer:</b>	30 or 45 minutes
<b>Auto tube compensation (ATC)</b>	
<b>Compliance compensation</b>	
<b>Graphical trends</b>	
<b>Nurse call</b>	

\* needs to be ordered separately

# INTENSA

## Monitoring

<b>Pressure values:</b>	Pmin, Pplat, Pmean, Ppeak, PEEP
<b>Volume/Flow values:</b>	VTI, VTE, MV, Mvspont, Leak%
<b>Loops:</b>	Flow-Pressure, Pressure-Volume, Flow-Volume
<b>Others:</b>	FiO <sub>2</sub> , EtCO <sub>2</sub> Ready*

## Operating conditions

<b>Gas supply:</b>	AIR, O <sub>2</sub> , 200 kPa – 650 kPa (29 – 94 PSI)
<b>Power supply:</b>	100 – 240 V, 50 – 60 Hz
<b>Temperature:</b>	10 – 40 °C (Operation); -20 – 60 °C (Storage)
<b>Relative humidity:</b>	15 – 95 %, non-condensing (Operation) ≤ 95 %, non-condensing (Storage)
<b>Atmospheric pressure:</b>	500 hPa – 1060 hPa (Operation and Storage)

## Communication interfaces

RS232, VGA, USB, RJ45

## Standards

- UL/IEC 60601-1
- IEC 60601-1-2
- IEC 60601-2-12
- EN794-1

## Dimensions (H x W x D)

624 x 774 x 1410 mm (with Cart)

## Order information

Article number	Description
100301	INTENSA Acute Care Ventilator including Vent-Cart
100673	C4500 Compressor (optional)
100674	EtCO <sub>2</sub> Sensor Probe (optional)
100675	CO <sub>2</sub> Airway Adapter Adult/Pediatric
100676	CO <sub>2</sub> Airway Adapter Neonatal
100678	Hose Arm Assembly, 3 joints
550247	Bracket for Humidifier
100680	Replacement cup for Water Trap Expiratory Module
100682	Expiratory Module
101200	AIRcon Gen2 Humidifier, 230V
270745	Double limb system for AIRcon (120 cm, 10 mm Ø), heated (i+e)
271223	Double limb system for AIRcon (150 cm, 15 mm Ø), heated (i+e)
270678	Double limb system for AIRcon (150 cm, 22 mm Ø), heated (i+e)
550248	Test Lung (>200 ml), autoclavable
100663	Oxygen Hose, 3 m (7.6"), NIST/DIN
100664	Oxygen Hose, 5 m (12.7"), NIST/DIN
100666	Air Hose, 3 m (7.6"), NIST/DIN
100667	Air Hose, 5 m (12.7"), NIST/DIN



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