



CRITICAL CARE VENTILATORS | Elisa Sonata

The unique advantages of NIDEK Ventilators make it a very important tool for critically ill patients and provide excellent support to medical practitioners.



NIDEK Ventilators are available in two models suited to medical practitioners and patients' needs and requirements. Individual product descriptions appear on the following pages.

Reliable | Precise | German Technology



Elisa

From newborn to adult

The all-purpose intensive care ventilator Elisa is designed to serve all kinds of patients - newborn (optional), child and adult. Modern microprocessor based technology, precise measurement techniques and efficient technologies assure accurate ventilation therapy and individual ventilation strategies.

Invasive and non-invasive ventilation

Elisa provides a combination of both invasive and non-invasive ventilation in a single device. It allows a doctor to choose between spontaneous or controlled non-invasive ventilation strategies. This modern intensive care ventilator measures the expiration volume precisely and includes best leakage compensation up to 95%.

Flexibility and mobility

The swivel-mounted and removable colour display offers extra advantage. The unit can be bed or wall-mounted, independent of the position of the ventilator. The practical trolley for the device and an external battery pack assure maximum flexibility and mobility.

Description

The Elisa is an intensive care ventilator. It is designed for intensive care ventilation of adults and children from the age of one year or a body weight of 5 kg. The Elisa can be optionally used for ventilation of newborn patients with a body weight from 2 to 6 kg.

Technical specifications

Supply voltage	230 VAC, 50/60 Hz; 115 VAC, 50/60 Hz
Power consumption	< 100 W
Back-up battery, Time of operation	30 min (Internal, Sealed Lead-Acid Gel)
External battery pack	24 Volts, 3 Amp
Time of operation	≥ 60 min
Pressure range	AIR and O2 270 to 600 kPa (40 to 90 PSI)
Max. overpressure	1000 kPa (145 PSI)
Max. temperature of gas supply	48° C
Connection	NIST
Width x Depth x Height	320 x 315 x 315 mm
Weight	14, 7 kg
Noise level	≤ 43 dB
Max. inspiratory flow	180 L/min for t<5 s; 120 L/min for t>5 s
Trigger system	Flow and pressure trigger (switchable)
Response time	< 45 ms
Compensation	Automatic for compliance and resistance of the breathing circuit during the system test
Operating principle	Time-controlled, volume-constant, pressure-cycled.
Ventilation modes	VCV, a-VCV, SIMV-VC (volume controlled modes are not available for patient type: Newborn), BiLevel, Dyn-BiLevel (BiLevel with VG), PSV/CPAP with apnea back-up, BiLevel with zero pressure support ensure PCV, BiLevel with inverse ratio ventilation ensure APRV.
Application part type according to IEC 60601-1	Type BF
Medical device class according to directive 93/42/EEC, appendix IX II b	Safety class, electrical hazard I



Sonata

Compact size

The compact size of the Sonata intensive care ventilator ensures the highest performance combined with a minimum need of floor space.

Economical solution

A clear hygiene concept and a visionary detailed solutions support help to save costs. The heated expiration valve is for daily use in intensive care and ensures precise measured values also when using humidifiers. The use of disposable flow-sensors and other consumables has been consciously rejected. The solid expiration valve can be easily removed in order to sterilize and autoclave it.

Intuitive menu navigation

The intuitive menu navigation is easy to use and especially developed for the needs of intensive care. The parameter settings, measured values and the representative curves are all clearly shown on the display. The practical operation eases the orientation and allows the users to apply the familiar ventilation strategies directly.

Description

The Sonata is an intensive care ventilator. It is designed for the intensive care ventilation of adults and children from the age of one year or a body weight of 5 kg.

Technical specifications

Supply voltage	230 VAC, 50/60 Hz; 115 VAC, 50/60 Hz
Power consumption	< 100 W
Back-up battery, Time of operation	≥ 30 min (Internal, Sealed Lead-Acid Gel)
Pressure range	AIR and O ₂ 280 to 600 kPa (40 to 90 PSI)
Max. overpressure	1000 kPa (145 PSI)
Max. temperature of gas supply	48° C
Connection	NIST
Width x Depth x Height	280 x 270 x 255 mm
Weight	10 kg
Max. inspiratory flow	180 L/min for t<5 s; 120 L/min for t>5 s
Ventilation modes	VCV, A-VCV, SIMV/PSV, Dyn-BiLevel, BiLevel/PSV, CPAP/PSV/Apnea
Operating principle	Time controlled, constant volume, pressure-cycled
Trigger system	Flow trigger
Application part type according to IEC 60601-1 Type BF	
Medical device class according to directive 93/42/EEC, appendix IX II b, Safety class, electrical hazard I	

Advanced ventilation

- Adult to pediatric, neonatal (optional)
- Volume controlled and pressure controlled mode
- Non invasive mask ventilation capability
- Airway Resistance Compensation (ARC) for automatic endotracheal or tracheostomy tube compensation
- Synchronized and compensated pneumatic nebulizer drive

Informative display

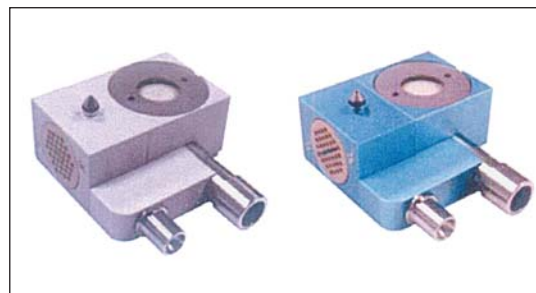
- Choice of compact 6.5 inches (Sonata) or 12.1 inches touchscreen display (Elisa)
- Settings, monitored values and waveforms visible on a single screen
- Display can be detached and remote mounted for optimal placement

Ease of use

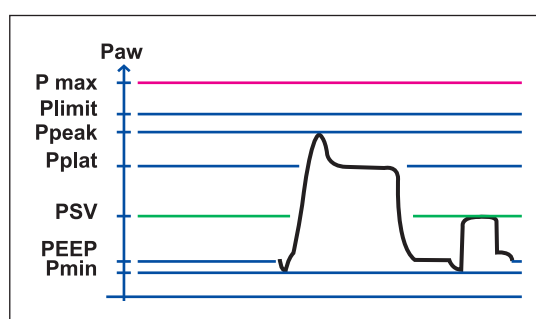
- Simplified operation through push dial, softkeys or touchscreen and menus
- Fast and automatic system test and startup sequence
- Automatic Patient Detection (APD) implementing safety and ease of use
- Automatic Suction Routine (ASR) facilitating bronchial suction procedures

Flexibility (optional)

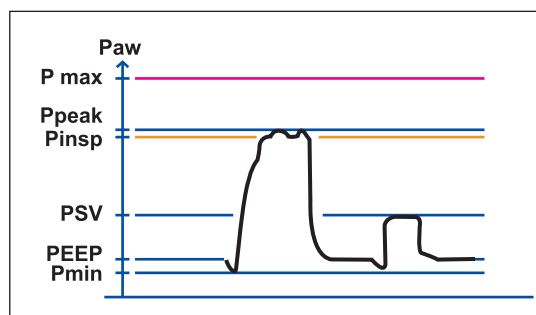
- External battery pack
- Cart mounted compressor
- Simple upgrade for enabling neonatal ventilation



Autoclave-able expiratory valves



Volume-controlled



Pressure-controlled

Manufacturer



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