



# ESV-60G

## Automatic Ventilator



INTENSIVE CARES



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## Automatic Ventilator



Cod. **ESV-60G**

- Nurse call port
- Upgradable etCO<sub>2</sub> monitoring (optional)



- High & Low pressure oxygen inlet



- Integrated power supply management



As a non-invasive ventilator, it is used in a wide range of clinical situations. The ESV-60G combines the advantages of a flexible non-invasive ventilator with a full-featured invasive ventilator for the ICU.

The ESV-60G is a critical care ventilator suitable for intra-hospital transport and sub-acute care of infants, children and adults. It has comprehensive functionality and a user-friendly design. ESV-60G's internal turbine provides needed air pressure with a low sound level and, along with its internal batteries, prepare it fully for mobile use.

**360° Visible Alarm Lamp**

**12" TFT Detachable Touch Screen**

**Ultra Quiet Turbine Inside**

**Integrated Power Supply Solution**

**Built-in Battery, With Extended Backup Option**

### Cost Effective Solution

- Unique metal-based, autoclavable, heated exhalation valve
- Built-in flow sensor, non-consumable design
- Upgradeable ventilation system software, with USB ports



### Optimal patient-ventilator synchrony, increase patient comfort

- The Unique Leak Compensation System - Keep precise control on the tidal volume of each breath by adjusting compensation dosage automatically
- Advanced Trigger Technique - Enhance sensitivity, avoid spurious triggering



### Safe Ventilation Through Whole Treatment Phase

#### Initial Treatment Phase

- Non-invasive ventilation mode associated with decreased intubation rates, shortened patient stays, improved patient comfort, and a reduced risk of cross infection
- Preset patient's height and IBW, reduce clinician's workload

#### Stable Condition Phase

- PRVC and BIVENT employ lung-protective strategies, delivering intelligent ventilation
- Comprehensive lung mechanics monitoring include compliance, airway resistance,

#### PEEPi and time constant

- Three waveforms & three loops with user-friendly display provide a continuous monitoring of the patient's condition

#### Weaning Phase

- Various ventilation modes enhance the weaning process
- The unique trigger and leakage compensation system safeguards each patient breath resulting in smooth and comfortable breathing, avoiding extra workload on the patient, promoting recovery
- RSBI and WOB provide accurate reference for weaning

#### Rehab Phase

- Provides pressure support for the patient when spontaneous breathing is present
- Optional Aerogen pro nebulizer





### Technical Features

#### Ventilation Settings

#### Ventilation Modes

- |                         |                   |                   |                   |
|-------------------------|-------------------|-------------------|-------------------|
| • VCV (A/C)             | • PCV (A/C)       | • PRVC (optional) | • SIMV (VCV) +PSV |
| • SIMV (PCV)+PSV        | • SIMV (PRVC)+PSV | • SPONT/CPAP+PSV  |                   |
| • BIVENT+PSV (optional) | • NIV/CPAP        | • NIV-T           | • NIV-S/T         |

#### Enhancements

- |                     |                                     |                 |
|---------------------|-------------------------------------|-----------------|
| • Apnea Ventilation | • Automatic Tube Compensation (ATC) |                 |
| • Smart Suction     | • Manual Breath                     | • Insp/Exp Hold |
| • Nebulization      | • etCO2 Measurement                 |                 |

#### Parameters

- |                                |                                |
|--------------------------------|--------------------------------|
| • Tidal Volume (VT)            | 20-2000ml                      |
| • Inspiratory Pressure (Pinsp) | 5 to 70 mbar (or kPa or cmH2O) |
| • PEEP                         | 0 to 35 mbar (or kPa or cmH2O) |
| • O2 Concentration (FiO2)      | 21 to 100 Vol%                 |
| • Trigger Type                 | Pressure trigger, Flow trigger |

#### Monitoring

- |                               |  |                |        |
|-------------------------------|--|----------------|--------|
| • Airway Pressure Measurement | Pplat, PEEP, Ppeak, Pmean, Pmin          |                |        |
| • Flow Measurement            | MV, MVspont, Vti, Vte                    |                |        |
| • Frequency Measurement       | ftotal, fspont                           |                |        |
| • O2 Measurement              | Inspiratory O2 concentration (FiO2)      |                |        |
| • CO2 Measurement             | End-expiratory CO2 concentration (etCO2) |                |        |
| • Curve Displays              | Pressure-Volume loop                     |                |        |
| • Pressure-Flow Loop          | Flow-Volume loop                         |                |        |
| • Calculated Values           | Compliance (C)                           | Resistance (R) | MVleak |
|                               | RSBI                                     | WOB            | I:E    |
|                               | Vdaw                                     | PEEPi          |        |

#### Physical Specifications

- |                        |  |                             |            |
|------------------------|--|-----------------------------|------------|
| • Dimensions (WxDxH)   |  |                             |            |
| Main Unit              | 375 x 421 x 300mm (14.76 x 15.67 x 11.81 inch) |                             |            |
| Trolley                | 547 x 675 x 950mm (21.54 x 26.57 x 34.40 inch) |                             |            |
| • Weight               |  |                             |            |
| Main Unit              | Approx. 17 kg (37.5 lbs)                       |                             |            |
| Trolley                | Approx. 25kg (55 lbs)                          |                             |            |
| • Diagonal Screen Size | 12" TFT color touch screen                     |                             |            |
| • Input/Output Ports   | 2 USB ports                                    | Real-time VGA output        | Nurse call |
|                        | CO2 output port                                | 1 RJ 45 Ethernet connectors |            |



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