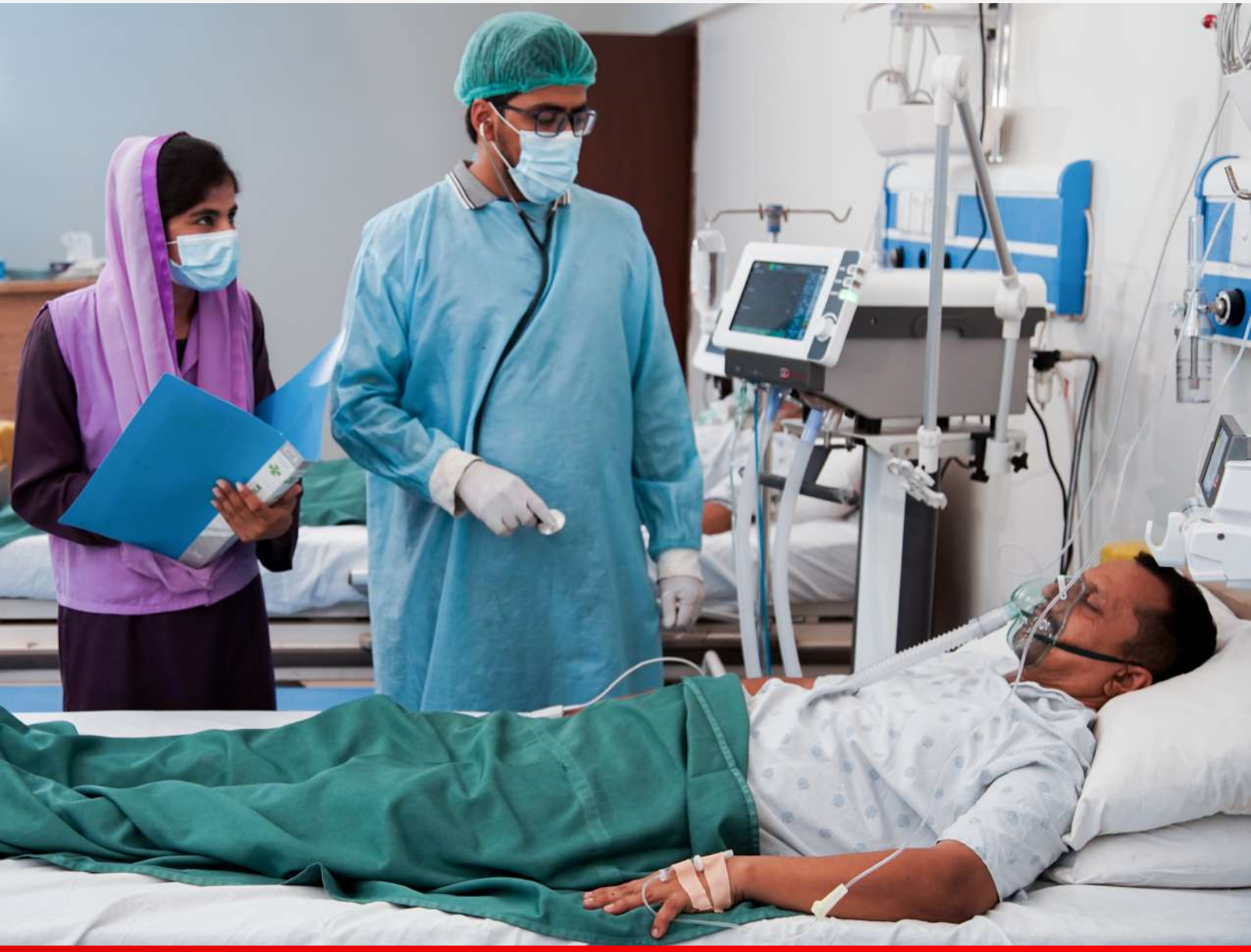
ALSONS TECHNOLOGY

ALNNOVENT
AVB-100
Every Breath Counts



THE ALNNOVENT AVB-100

Every Breath Counts

Because your life matters to us, our innovative products are designed to save lives and help people breathe better.

MADE IN PAKISTAN

Approved by

DRUG REGULATORY AUTHORITY OF PAKISTAN

MDMR-000411

PAKISTAN ENGINEERING COUNCIL

Certifications

SYSTEM CERTIFICATION ISO 45001 SGS

SYSTEM CERTIFICATION ISO 13485 SGS

Supported by

RISING PAKISTAN SIFC SPECIAL INVESTMENT FACILITATION COUNCIL

accelerate prosperity

SAMAN E SHIFA FOUNDATION

BUA-0227 Rev 01

Electro-Mechanical Ventilator

Introducing the Alsons Group's Electro-Mechanical ICU Ventilator

Your Lifesaving Solution for Modern ICUs with a total of nine versatile modes of operation, including seven invasive and two non-invasive options. Proudly designed, developed, and manufactured in Pakistan, the AlnnoVent AVB-100 offers a comprehensive range of monitoring parameters and modes at an incredibly competitive cost. Trust us to deliver top-notch critical care support for your patients. The AlnnoVent AVB-100 is designed for adult patients weighing between 30 kgs to 200 kgs.

Mode Name	Description
PC-CMV+	Pressure Controlled - Continuous Mandatory Ventilation, provides pressure controlled mandatory and patient triggered breaths
PC-SIMV	Pressure Controlled - Synchronized Intermittent Mandatory Ventilation, mandatory breaths are pressure controlled and can be alternated with pressure-supported spontaneous breaths
VC-CMV+	Volume Controlled - Continuous Mandatory Ventilation, breaths are volume controlled and mandatory, including patient triggered breaths
VC-SIMV	Volume Controlled - Synchronized Intermittent Mandatory Ventilation, provides volume-controlled mandatory breaths which can be alternated with pressure-supported spontaneous breaths
APV-CMV+	Adaptive Pressure Ventilation - Continuous Mandatory Ventilation, breaths are volume targeted and mandatory.
APV-SIMV	Adaptive Pressure Ventilation – Synchronized Intermittent Mandatory Ventilation provides Volume-targeted mandatory breaths which can be alternated with pressure-supported spontaneous breaths
SPONT (PS)	Spontaneous (Pressure Support) Ventilation is a mode in which every breath is spontaneous, i.e., each breath triggered and cycled by the patient, with a backup Pressure Support mode
CPAP+	Continuous Positive Airway Pressure provides non-invasive ventilation, with adjustable Support Pressure (cmH_2O)
BiPAP+	Bi-level Positive Airway Pressure, provides non-invasive ventilation in which every breath is spontaneous as long as the patient is breathing above the set Rate. Backup Rate can be set for mandatory breaths

Features

Range of Ventilation

Range of Ventilation Modes including invasive & non-invasive

Screen Lock

Main screen can be locked/unlocked via touch or knob to prevent accidental changes

O_2 Enrichment

Delivers 100% oxygen for ~2 minutes during suctioning or desaturation events

User Friendly

Features a user-friendly interface with a 10” touchscreen and rotary encoder knob for easy access to settings.

Display Configuration

This setup lets clinicians view real-time breathing patterns in waveforms and loops.

Negative Inspiratory Force (NIF)

Assesses patient's respiratory muscle strength for weaning readiness

Humidifier Option

Optional feature of Humidifier: Any humidification device with a flow capacity of up to 120 L/min

Inspiratory Hold Manoeuvre

Measures plateau airway pressure by pausing airflow at end-inspiration (up to 10 seconds)

Expiratory Hold Manoeuvre

Measures intrinsic PEEP and assesses patient effort during exhalation (up to 10 seconds)

Trolley

The trolley has an additional feature, it can accommodate a compressor and two gas cylinders. The AVB-100 can ventilate patients during intra-facility transport as well

Technical Specifications

Ventilation Modes	Invasive Modes: PC-CMV+, PC-SIMV, VC-SIMV, VC-CMV+, APV-CMV+ APV-SIMV, SPONT (PS) Non-Invasive Modes: BiPAP+, CPAP+
Δ Inspiratory Pressure	10 – 60 cmH_2O
Positive End-Expiratory Pressure (PEEP) or PEEP/CPAP (for Non- Invasive Modes)	0 – 20 cmH_2O
Δ Support Pressure	For Invasive modes: 5 – 40 cmH_2O For Non-invasive modes: CPAP+: 0-40 cmH2O, BiPAP+: 3-40 cmH2O
Fraction of Inspired Oxygen (FiO_2)	21 – 100%
Respiratory Rate (RR)	8 – 35 BPM
Inspiratory to Expiratory Ratio (I:E)	1:1 – 1:3
Trigger Flow	0.5 – 20 L/min APV-CMV+, PC-CMV+, VC-CMV+: 0.5 – 20 L/min / Off
Trigger Pressure	0.5 – 20 cmH_2O APV-CMV+, PC-CMV+, VC-CMV+: 0.5 – 20 cmH_2O / Off
Apnoea Time	5 – 30 sec
Tidal Volume (VT)	200 – 1200 mL
Flow	10 – 120 L/min
Alarm (High Priority)	Low PEEP, Air Supply, Low Battery, High Leakage, Oxygen Supply, Patient Disconnected, High/Low Oxygen Level, High/Low Tidal Volume, High/Low Minute Volume, External Flow Sensor Failed, Turn External Flow Sensor, Patient Under/Over Pressure, High/Low Spont. Tidal Volume, Technical fault: 1000–1009
Alarm (Medium Priority)	High RR, Ventilator On Battery, High/Low Oxygen Level
Alarm (Low Priority)	Mains Power Loss, No O_2 Cell In Use, Suction Manoeuvre, Apnoea Backup Activated, Apnoea Ventilation Ended

Alsons
Building a Healthier Tomorrow

FOR MORE INFORMATION PLEASE CONTACT

+92 (21) 35880312

info@alsonstechnology.com

www.alsonstechnology.com
www.alsonsgroup.com

Plot 8C Old Sunset Blvd, Phase II
D.H.A, Karachi, 75600, Pakistan