

ATV - 3000C

ICU Ventilator, Adult, Peadiatric & Neonatal



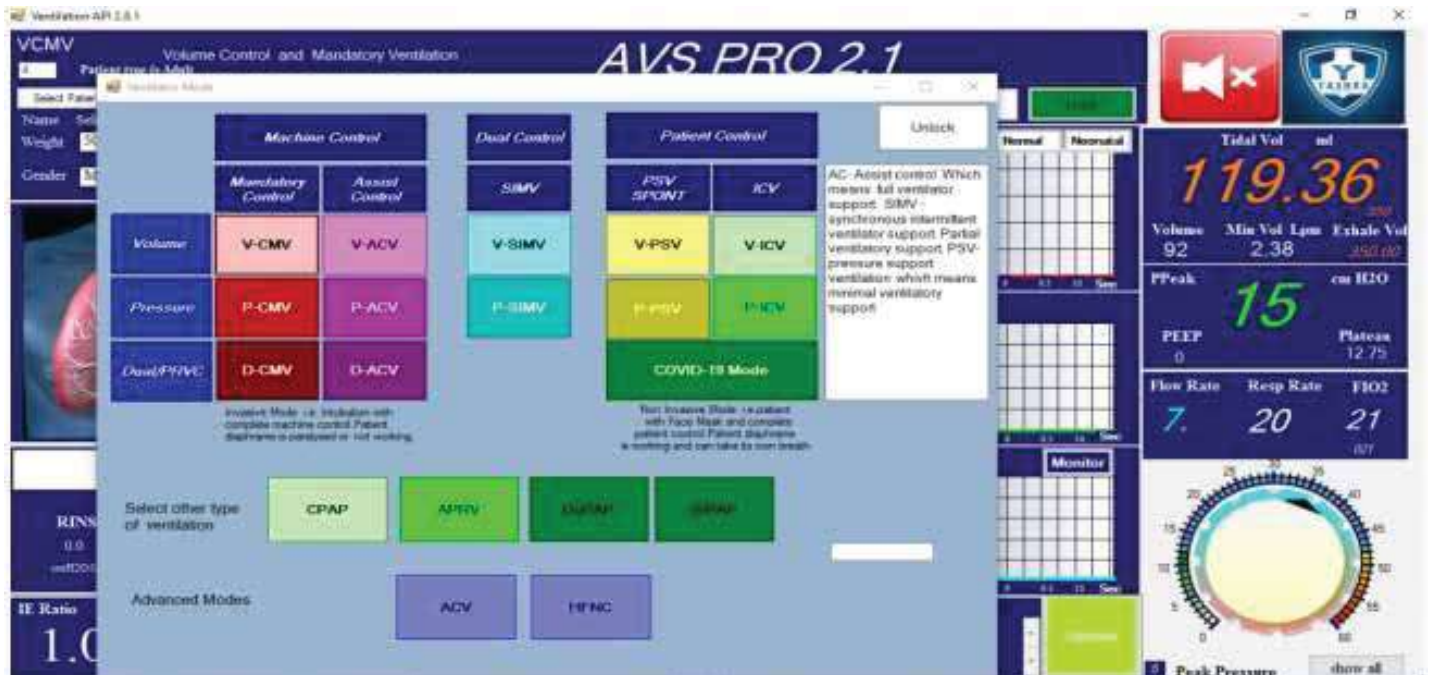
EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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►► Modes of Ventilation



Volume Control Modes

VCMV
VACV
VSIMV
VPSV
VICV

Pressure Control Modes

PCMV
PACV
PSIMV
PPSV
PICV

Patient Control Modes/Spontaneous Breath

Pressure Support Mode (PPSV, VPSV)
Patient Independent Control Ventilation Mode, (PICV, VICV)

Therapy type

Non-Invasive Ventilation (PPSV)
Pressure Support Ventilation (DuPAP)

Advanced mode

DCMV, PPSV, DACV, DuPAP, HFNC, HFOV

Pressure Supply

CPAP
 nCPAP
 BIPAP
 APRV

Types of Patients

Adults, Pediatric, Neonatal
 BUBBLE CPAP

►► Technical Specifications

Respiratory Rate (RR)	6-200 BPM
Peak Inspiratory Pressure	0 to 60 cm H ₂ O
PEEP	0 to 30 cmH ₂ O
Pressure Support	0 to 60 cmH ₂ O
Inspiratory Time (Ti)	0.2 to 4 Sec
I:E Ratio	0.2 to 5 (1:5 to 5:1)
Tidal Volume (VT)-	2 ml to 2000 ml
Inspiratory Flow Rate	0 to 80 LPM
Trigger Sensitivity	Flow and pressure
Volume Accuracy	±10%
O ₂ Concentration (FiO ₂ control)	21 to 100%
Recruitment Tools	Inspiration and expiration
Oxygen Input	1.5 Bar minimum
Screen Size	15.1 inch
Weight	75 kg with compressor
Dimension	H 1300 x D 500 x W 560 (mm)
Battery	24 V (10 Amp)
Battery Back-up Time	6 Hr. (With oxygen support only)
Mains Input	230 V
Input Current	10 Amp
Power Consumption	750 V Maximum

►► Monitored Parameters

Pressure Measurements

Peak Inspiratory Pressure (PIP)
 Positive end Expiratory Pressure (PEEP)
 (P mean)Plateau Pressure
 Pressure
 Range-0 to 6 0 cm H₂O

Flow Measurements

Expiratory m i n u t e Volume (M_{Ve})
 Inspiratory minute Volume (M_{Vi})
 Spontaneous Expired minute Volume
 (Spont M_{Ve})
 Range -0 to 200 L/min

Volume Measurements

Inspiratory Tidal Volume (V_{Ti})
 Expiratory Tidal Volume (V_{Te})
 Oxygen Concentration (FiO₂)
 Respiratory Rate (RR)

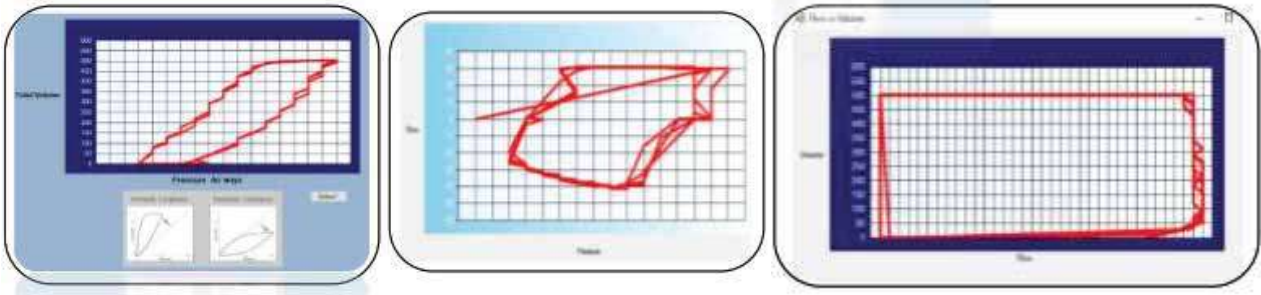
Other Measurements

I:E Ratio
 Static Lung Compliance (C_{Stat})
 Inspiratory Time (T_i)
 Expiatory Time (T_e)

Trends

Storage of trends for 2 months, all parameters.

►► Graphic mode and Display



In volume control, flow and volume are fixed whereas pressure changes. In pressure control, pressure is fixed whereas flow and volume changes. In volume control with descending ramp pattern, the pressure-time graph looks similar to pressure control mode.



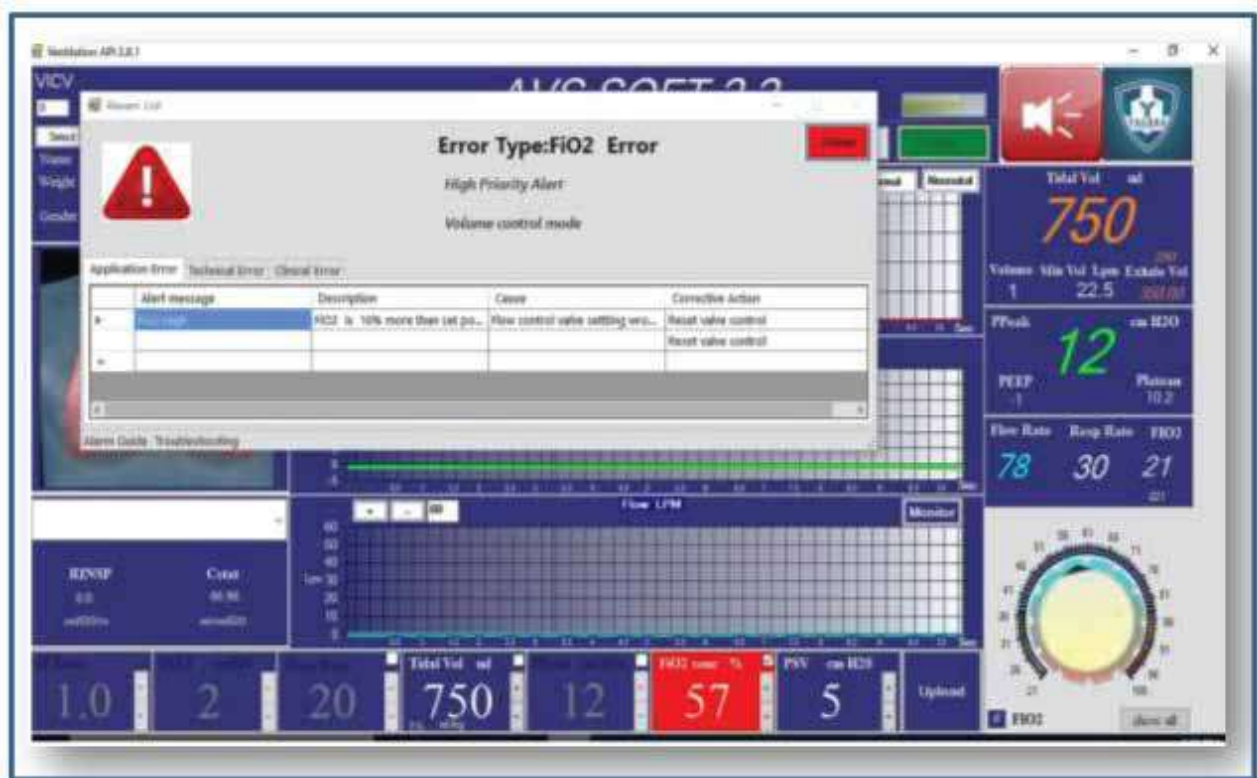
►► Alarms for Device and Patient Safety

Alarms for Patient Safety

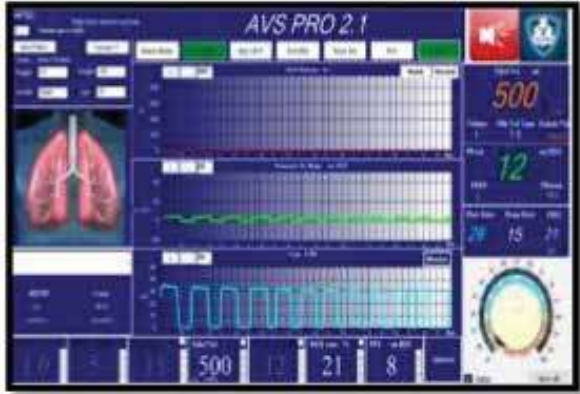
Respiratory Rate (High / Low)
Tidal Volume (High / Low)
FiO₂(High / Low)
Circuit Disconnection (Pop Up)
Battery Low

Alarm Features

Color coded alarms based on priority



►► Unique Features



High Flow Oxygen Therapy HFNC Mode

HFNC mode when used with humidifier is capable of delivering up to 100% humidified and heated oxygen at a flow rate of up to 80 LPM. High Flow therapy increases alveoli recruitment and delivers high FiO₂ while offering increased patient comfort. The unique features for ATL are Patient trigger and time control method which makes the HFNC for very high patient comfort along with 50% oxygen saving.

15.6-inch Touchscreen with User-friendly Interface.

The integrated 15.6-inch Touchscreen Interface provides great monitoring and controlling capabilities. The customized interface is designed considering inputs from healthcare professionals and has been created for quick, easy and intuitive usage. Complete touch based



Battery Backup

Powerful compressor-based ventilator with a battery backup of up to 4 hours. The compact, independent and power efficient design making it ideal for ICU.

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

Our Products & Technologies



UV/VIS
Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Partical
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical
Foundation

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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.



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