

Technical Data AQUILON®

Operative Modes

Adult And Pediatric
 VCV - Volume Control (Assisted / Controlled)
 PCV - Pressure Control (Assisted / Controlled)
 PSV - Pressure Support
 CPAP - Continuous Positive Airway Pressure
 SIMV - (VCV) + PSV
 SIMV - (PCV) + PSV
 MMV + PSV - Mandatory Minute Ventilation
 PSV + Tidal Volume Assured
 APRV - Airway Pressure Release Ventilation
 NIV - Non-Invasive Ventilation

Parameter Selection

(according to operative mode and patient category)
 Tidal Volume - 20-2500 mL
 Programmable Minute Volume (MMV + PSV): 1.0-50 L/min
 Resulting Minute Volume: 0.01-130 L/min
 Inspiratory Time: 0.1-10 seconds (30s in APRV)
 I:E Ratio: 5:1- 1:599
 Respiratory Rate:
 ADL / PEB: 1-100 bpm
 FIO₂: 0.21-1.0
 Inspiratory sensitivity:
 - Flow Triggered: 0.2-15 L/min
 - Pressure Triggered: 0.5-20 cmH₂O below PEEP
 Expiratory sensitivity for PSV: 5%-80% of the initial peak flow, in steps of 5%
 PEEP/CPAP: 0-50 cmH₂O
 Controlled Pressure (PCV): 2-100 cmH₂O
 Support Pressure (PSV): 0-100 cmH₂O
 Inspiratory Pause (programmable in VCV): 0-2 seconds
 Inspiratory Flow Waveform (in VCV): Rectangular and Descending Ramp
 Inspiratory Flow (resultant): 0.2-180 L/min
 Maximum pressure limited (safety limits): up to 120 cmH₂O

Alarms

Visual and audible signals according to priority and messages on the screen
 The System Keeps a record of the occurred events with name, date and time
 This record is printable and cannot be deleted. The system allows the deactivation of Tidal Volume and Minute Volume alarms in NIV.
 - High and Low Inspiratory Pressure, High Continuous Pressure
 - Low Pressure of O₂ and Air, or one of them, Oxygen not adequate
 - Main Power Loss, Low Battery
 - Technical Failure; Fan failure
 - Disconnection
 - High and Low Minute Volume, High and Low Tidal Volume
 - High and Low O₂ percentage
 - Apnea, Leak (non-compensable)
 - High Respiratory Rate
 - PEEP Loss

Other features and Controls

12.1" TFT- LED color touch screen
 Trends (up to 72 hours)
 PF, PV, FV, LDDPS. They can be saved as reference loops
 Sighs (in VCV)
 Suction% O₂: for suction sequence with variable FIO₂, Standby function
 Synchronized and Fio₂ controlled Nebulizer
 Manual Inspiration, Inspiratory/ Expiratory Pause (manual)
 Inspiratory relief valve (antisuffocation)
 Pneumatic safety valve: 120 cmH₂O (±/5)

Complementary Functions

Attitude compensation for volume correction
 Body temperature volume correction (BTPS)
 Volume correction according to patient circuit compliance
 Leak compensation available in all operative's modes
 Tidal Volume setting based on Ideal Body Weight (IBW)
 Intra Hospital transport: Facilitates the mobilization when the ventilator can only be supplied with oxygen bottles

Respiratory Mechanics

Selection by onscreen menu:
 AutoPEEP, Trapped volume measurement
 Dynamic and static compliance, Inspiratory and Expiratory Resistance
 Slow Vital Capacity (Non-forced), Imposed work of breathing (WOB)
 Occluded Inspiratory effort during 100 ms (P0.1)
 P/V Inflections Points
 Maximum inspiratory pressure (Pi max)
 Rapid Shallow breathing index (F/VT index)
 Expiratory time constant (Tcexp)

Connectivity

RS-232C with DB-9 connector
 VGA output for an external monitor connection

Electrical Requirements

Main Power: 100-240 V / 50-60 Hz. Automatic Voltage switching
 Internal Battery: 11.1 V / 7.8 Ah Automatic recharge
 Estimated Duration: 2.5 hours when fully charged.
 Charge level indicator onscreen

Pneumatic Requirements

Gas Supply:
 - Oxygen: Pressure 2.8-6 bar (approx 41-87 psi) Connector: DISS 9/16"-18
 - External Air: Pressure 2.8-6 bar (approx 41-87 psi) Connector: DISS 3/4"-16
 Automatic gas switching when one of them is absent in order to allow patient ventilation with the remaining gas

Order Information

Aquilon main unit
 Cart / Trolley - 1no.
 Exhalation valve with flow-sensor - 2nos.
 Reusable adult patient circuit - 1no.
 Test lung

Optional

- Air Compressor
 - Humidifier

Accessories shown are not part of standard configuration All registered trademarks acknowledged.

Technical data are subject to change without notice

SCHILLER
INDIA

Swiss H.Q.: Schiller AG, Altgasse 68, P. O. Box 1052, CH -6341 Baar, Switzerland,
 Indian Corporate Office : Schiller Healthcare India Pvt. Ltd., Advance House,
 Makwana Road, Off Andheri Kuria Road, Marol Naka Metro Station, Andheri (East), Mumbai - 400 059,
 Tel.: + 91 - 22 - 61523333 / 29209141 Fax : + 91 - 22 - 29209142
 E-mail : sales@schillerindia.com, support@schillerindia.com

Regional / Branch Offices: Ahmedabad: 079-40307190/09327031678 Email: sales.west@schillerindia.com
 Bengaluru:080-26564045/09379036923 Email: sales.south2@schillerindia.com Bhopal:0755-4274421/09329542691
 Email: sales.central@schillerindia.com Bhubaneswar: 09874766668 Email: sales.east@schillerindia.com Chennai: 044-28232648,
 09383620520 Email: sales.south1@schillerindia.com, Trichy/ Coimbatore: 09383620520 Email: sales.south1@schillerindia.com
 Guwahati: 09435140877 Email: sales.east@schillerindia.com Hubli: 09343551884/09379036923 Email: sales.south2@schillerindia.com
 Hyderabad:09533552969/09379036923 Email: sales.south2@schillerindia.com Indore/ Nagpur: 09329542691 Email: sales.central@schillerindia.com
 Email: sales.central@schillerindia.com Kathmandu: 00977-9852030389 Email: sales.nepal@schillerindia.com
 Kochi: 0484-2203264/09383620520 Email: sales.south1@schillerindia.com Ranchi/ Kolkata: 033-23593102/ 09874766668
 Email: sales.east@schillerindia.com Lucknow: 0522-4076659/09312432205 Email: sales.north@schillerindia.com
 Mumbai: 022-61523333/ 09323799863 Email: sales.west@schillerindia.com, Chandigarh/ Jaipur/ New Delhi: 011-32600582/09312432205
 Email: sales.north@schillerindia.com, Patna: 0612-2570745/ 09334833045 Email: sales.east@schillerindia.com Puducherry: 09383620520 Email:
 sales.south1@schillerindia.com Nashik/ Pune: 020-24210657/09371020520 Email: sales.west@schillerindia.com
 CIN : U33110MH1997P1C111307

Authorized Dealer

sales@schillerindia.com www.schillerindia.com 1800 2098998



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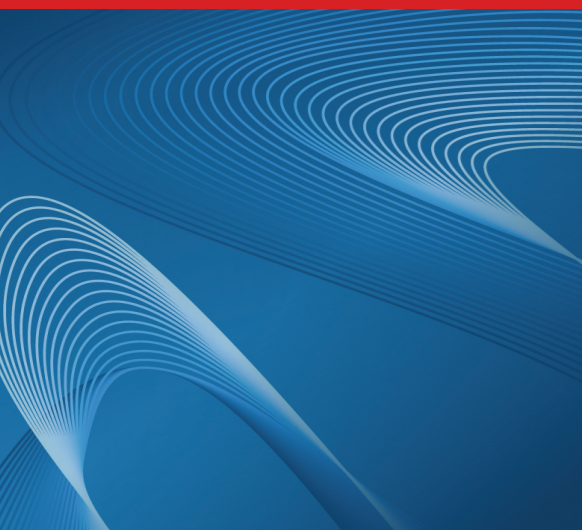
The Art of Ventilation
without Compromise



AQUILON®

FEATURES

- Advanced Proportional Solenoid Valve (PSOL)- PSOL based technology ensures faster, safer and accurate gas delivery which also reduces work of breathing and helps in improving synchrony
- Active Exhalation Valve - Active exhalation valve system actively controls and maintains the target pressure. It allows unrestricted breathing during both inspiratory and expiratory phases of the breath cycle and vents excess pressure (due to Pressure overshoot, patient coughing). This promotes better patient - ventilator synchrony and potentially decreases the need for sedation



COMPREHENSIVE MONITORING

Monitoring of vital signs variables such as mandatory and spontaneous minute ventilation, spontaneous frequency, exhalation time constant and leaks. Built-in respiratory mechanics menu provides a vital tool for making correct information-based decision, increasing the efficacy of treatment and guaranteeing patient safety

LOW COST MAINTENANCE

Designed with high end pneumatic base, Aquilon can be operated long time without maintenance. It's reliable and low cost spare parts make the serviceability very easy and affordable

COMPACT DESIGN

Aquilon provides a clear and complete display of vital sign variables on a built-in 12.1" TFT LED color touch screen. User-friendly and intuitive programming helps managing critical patients safely through:

- Touch screen
- Rapid-access keys
- High visibility alarm indicator

RELIABLE FLOW SENSOR

Its rugged reusable flow sensor gives exceptional response and accurate monitoring even when used with Nebuliser

Simplified Graphic touch Interface

- User friendly Pop-up menu with rotary encoder
- Quick & Smart calculation of setting parameters (IBW)
- Comprehensive Alarm Monitoring
- Graphical & Tabular Trend for 72 hours

Robust and high performance Pneumatics

- Advance Proportional Solenoid Technology (PSOL)
- Active Exhalation Valve
- Multi-safety Mechanism

Comprehensive Ventilation modes

- Invasive & non-Invasive
- Advanced modes -MMV+ PSV, PSV + Assured Volume, APRV
- Bi-directional Apnea Back up Ventilation

Advance Weaning tools

- Lung Mechanics functions- Compliance and Resistance, Auto PEEP, Trapped Volume
- Po.1, NIF / MIP, Work Of Breathing (imposed), PV Flex
- RSBI, Expiratory time Constant, Complete Spontaneous Activity

Other functions

- Volume and FiO2 compensated Nebuliser
- Suction protocol
- Compliance and leakage compensation
- Battery Back for 2.5 hours

Manoeuvre smoothly and comfortably with easy-glide wheels and a handle positioned at just the right height

