Technical Data AQUILON®

Operative Modes

Adults And Pediatrics

VCV - Volume Control (Assisted / Controlled)
PCV - Pressure Control (Assisted / Controlled)
PSV - Pressure Support
CPAP - Continuous Positive Airway Pressure

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
Pospiratory Pato:

FIG.: 0.21-1.0
Inspiratory sensitivity:
- Flow Triggered: 0.2-15 L/min
- Pressure Triggered: 0.5-20 cmH₂0 below PEEP
Expiratory sensitivity for PSV: 5%-80% of the initial peak flow, in steps of 5%
PEEP/CPAP: 0-50 cmH₂0

PEEP/CPAP: 0-50 cmH,0
Controlled Pressure (PCV): 2-100 cmH,0
Support Pressure (PSV): 0-100 cmH,0
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 cmH,0

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 O, and Air, or one of them, Oxygen not adequate

High and Low Minute Volume, High and Low Tidal Volume

· High and Low O₂ percentage · Apnea, Leak (non-compensable)

Other features and Controls

Pr, Pv, Fv, LOUPS. They can be saved as reference loops Sighs (in VCV)
Suction% O₂: for suction sequence with variable FiO₂, Standby function Synchronized and Fio, controlled Nebulizer
Manual Inspiration, Inspiratory Expiratory Pause (manual)
Inspiratory relief valve (antisuffocation)
Pneumatic safety valve: 120 cmH₂O (±/5)

Complementary Functions

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 (WOBI)
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

Reusable adult patient circuit - 1no.

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

Technical data are subject to change without notice



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Authorised Dealer













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 coughs). 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-inch LED 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

