monsoon III
High frequency ventilation

ACUTRONIC

Ventilation Beyond Limits

monsoon III
An atmosphere for highest patient comfort

ACUTRONIC Medical Systems AG was founded 1981 in Hirzel, Switzerland. We first gained worldwide attention for our jet ventilation products – a specifically assigned method of artificial respiration in ENT and thoracic surgery.

Being the driving force behind the Foundation of the European Society for Jet Ventilation, we had already recognized the importance of developing new ways of artificial respiration technologies for high risk patients.

The high-frequency jet ventilation application provides continuous ventilation for the open, unblocked respiratory system, and may, if desired, obtain a chest restraint under current ventilation.

ACUTRONIC's jet ventilation works at very high pressures to produce fast gas exchange (jet), which ensures high gas flow, oxygenation and ventilation for the patient.

The Jet has a capacity to deliver a wide frequency range, from 4 to 1600 breaths per minute. Intrapulmonary pressures will not increase due to the open ventilation system delivered by the Jet. This is an efficient method of atelectasis prevention.

The ability to deliver high pressures allows one to ventilate the patient with small tubes or narrow catheters. The result is one of the key advantages of jet ventilation, namely, easy accessibility to the larynx and trachea for diagnostic and surgical procedures.

Features

- 9" detachable color touch screen/ control panel with video-option
- Jet ventilation connection
- SIPL-Super Imposed Pressure Limit (known as Super Imposed Jet-Ventilation)
- Set Bypass-Flow like constant flow
- Numerical display of all measured pressure and ventilation parameters
- Graphical airway pressure curves
- Comwheel and color touch screen user interface
- Jet connector and airway adapter pressure monitoring
- Complimentary standard functions such as CO2 monitoring, Laser therapy, and help function.

Detachable 9" colour touch screen

9" colour touch screen

Technical Specifications

Alarm settings

- PIP Airway Pressure – Alarm: 0 - 80 cmH_2O
- PP Pause Pressure – Alarm: 0 - 80 cmH_2O
- Disconnection: On - Off

Settings

- Jet Frequency
  12 - 150 cycles per minute
- Inspiratory time : 20% - 60%
- Driving Pressure: 5 - 40 psi
- Oxygen concentration: 21% - 100%
- Minute volume measurement: 0 - 200 l/min
  Tidal volume measurement 0 - 10'000 ml
- Auxiliary gas flow 0 - 70l/min
- Max. water flow 6 ml/min
- Max. heater output 200 Watt

Connections

- AIR : 55 psi + 20% - 25%
- O_2 : 55 psi + 20% - 25%
- Power supply :
  100 – 120 VAC
  50 / 60 Hz
- Power consumption : 100 W

Monitoring

- Frequency
- Inspiration time
- FiO_2
- Airway Pressure ; Bypass-Flow
- Alarm limits for :
  Pause / Airway Pressure
  Peak Pressure
  Mean Pressure
  End Expiratory Pressure
  Pause Pressure
- $etCO_2$

Dimensions

- Size – main unit: 42 x 39 x 19 cm (B x T x H)
- Main unit weight:
  Basic approx. 13.5 kg
  PLUS approx. 14.0 kg
- Display only: 27 x 21 x 8 cm (B x T x H) ;
  Weight : 1.5 kg

ACUTRONIC

Susquehanna Micro Inc.
198 West Beaver Street
Hallam, PA 17406
USA

Toll Free 888-730-5463
smi@susquemicro.com
www.susquemicro.com

V01/16 en CE 0044