ACER BIOMEDICALS

Intensive Care Ventilator MV200

Version K2.19E

Intended use: lung ventilation during intensive care with a wide choice of the ventilation modes. Ventilator is for use in hospitals, hospital-type facilities and intra-hospital transportation

Patient types: adult, pediatric, infant

Display: 12.1“, touchscreen, color, viewing angle adjustment

Power: 100 - 250 V, 50/60 Hz, back-up battery for 6 hours

Trigger: flow and pressure

Gas supply: air from the built-in turbine; oxygen from central gas pipeline, cylinder

Data displaying mode: simultaneously up to 3 curves and 1 loop

USB port

Imported & Marketed by :
ACER BIOMEDICALS LLP
D-10, Kamla Nagar, New Delhi-110007
Tel.: +91 11 4025 4357, 4025 4358
E-mail: info@acerbiomed.com
Web: www.acerbiomed.com

Service Helpline
+91-11-4025 4357

ACER BIOMEDICALS

Ventilation modes:

Mandatory ventilation	volume-controlled	**CMV VCV**
	pressure-controlled	**CMV PCV**
	pressure controlled ventilation with the guaranteed delivery of target respiratory volume	**PCV VG**
Synchronized intermittent mandatory ventilation	volume-controlled with pressure support of spontaneous breaths	**SIMV VC**
	pressure-controlled with pressure support of spontaneous breaths	**SIMV PC**
	with flow and pressure trigger with double control	**SIMV DC**
Spontaneous breathing	constant positive airway pressure mode with pressure support	**CPAP+PS**
	airway pressure release ventilation	**APRV**
	ventilation at two levels of constant positive pressure with pressure support	**BiSTEP + PS**
	non-invasive ventilation	**NIV**
Reserve mode	apnea ventilation	**Apnea**
Adaptive ventilation	mode of intellectual adaptive ventilation	**iSV**
Pressure support	pressure support function	**PS**

Ventilation parameters:

Tidal volume	from 10 to 3 000 ml
Respiratory rate	from 1 to 120 bpm
Inspiratory time	from 0.2 to 10 s
Flow trigger sensitivity	from 0.5 to 20 lpm
Pressure trigger sensitivity	from 0.5 to 20 cmH2O
PEEP	from 0 to 50 cmH2O
Inspiratory pressure	from 0 to 100 cmH2O
Pressure support	from 0 to 80 cmH2O
I:E ratio	from 1:99 to 60:1

Imported & Marketed by :
ACER BIOMEDICALS LLP
D-10, Kamla Nagar, New Delhi-110007
Tel.: +91 11 4025 4357, 4025 4358
E-mail: info@acerbiomed.com
Web: www.acerbiomed.com

Service Helpline
+91-11-4025 4357

Additional functions:

Mainstream CO_2 capnometry
Gas analysis module with metabolic evaluation
Volumetric capnometry, monitoring of alveolar ventilation and cardiac output (according to Fick)
Auxiliary external pressure module (in trachea or esophagus using a catheter), P_{aux} wave

Monitoring of ventilation parameters:

Basic monitoring:
Peak inspiratory pressure PIP, pressure of the plateau, mean airway pressure MAP, PEEP, autoPEEP
Minute respiratory volume, minute volume of spontaneous breath
Inspiratory volume, expiratory volume
Tidal volume
Respiratory rate, spontaneous breathing frequency
Resistance R
Compliance C
Dynamic compliance / Resistance Dyn C/R
Inspiratory : expiratory ratio I:E
Inspired volume of oxygen FiO_2
Leakage
Peak inspiratory flow
Advanced monitoring:
End expiratory pressure
Flow at the end of expiration
Time constant at the inspiration, expiration
Stress index
Index of respiratory effort
The patient`s work of breathing, the ventilator`s work of breathing
Inspiratory time
Index of fullness a breathing cycle
The index of spontaneous breathing
Resistance to expiration
Resistance of the breathing circuit
Elasticity of breathing airway
Compliance of the breathing circuit
Shallow breathing index

Graphical monitoring:

Simultaneous displaying up to 3 curves and 1 loop at the user's choice
Waveforms: flow-time, pressure-time, volume-time at user's choice
Loops: volume-pressure, flow-volume, flow-pressure

Imported & Marketed by :
ACER BIOMEDICALS LLP
D-10, Kamla Nagar, New Delhi-110007
Tel.: +91 11 4025 4357, 4025 4358
E-mail: info@acerbiomed.com
Web: www.acerbiomed.com

Service Helpline
+91-11-4025 4357