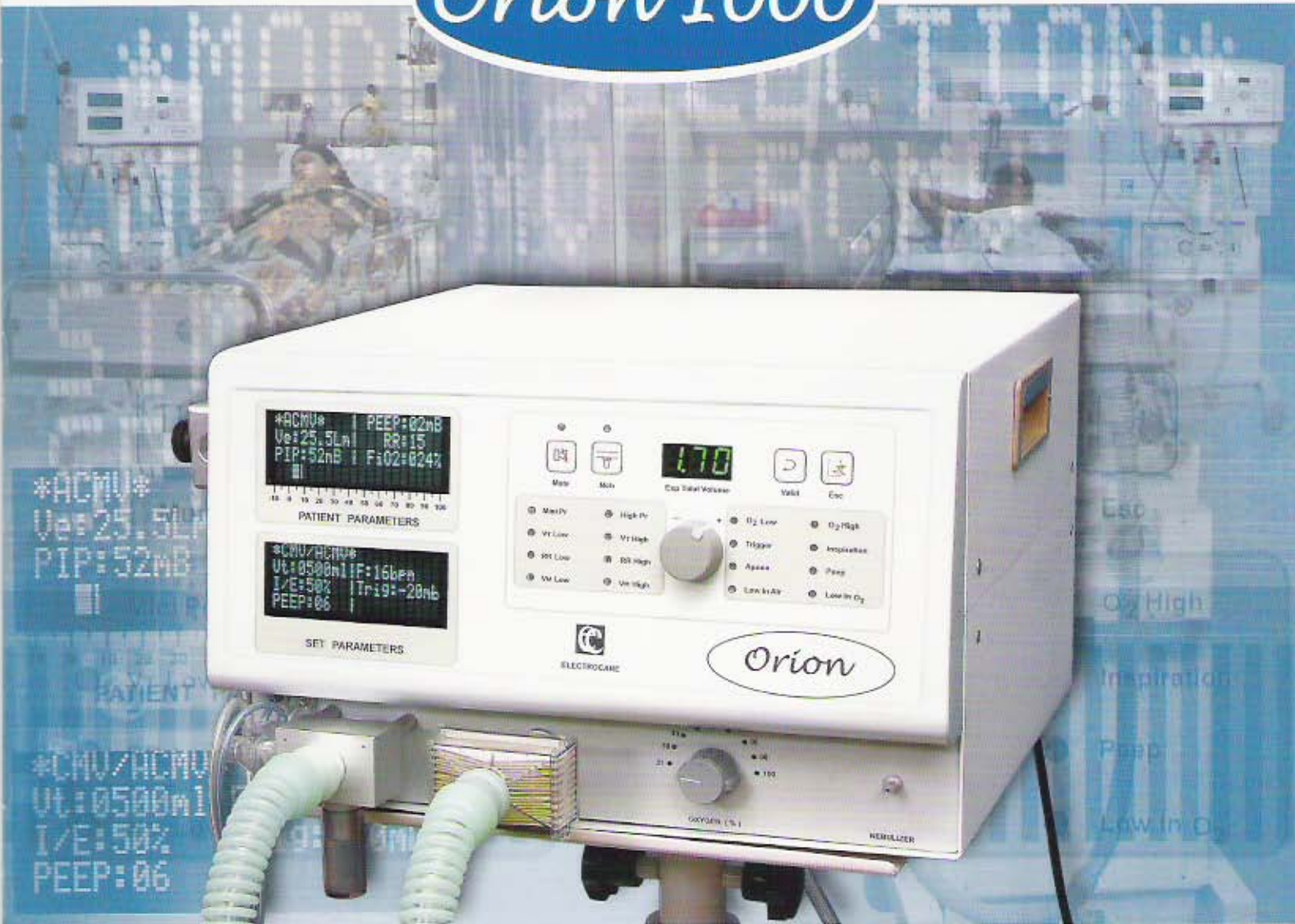


Orion 1000



Critical Care Respirator

SAVING LIFE



Electrocare

Orion 1000

Critical Care Respirator


ORION is a microprocessor controlled software driven Respirator. It meets the expectation in terms of versatility and reliability.

The components and subassemblies are sourced from international suppliers.

ORION Respirator is calibrated with the latest computerised test lung system. Standard modes as well as Advanced modes of Ventilation to treat challenging conditions. NIV -Non Invasive Ventilation is a standard feature in ORION.

```
*MODE SELECTION*
CMV/ACMV  IPCMV
SIMV      IPSIMV
SPONT     INIV  ->
```

```
*ACMV* | PEEP:02mB
Ve:25.5LmI  RR:15
PIP:52mB | FiO2:024%
```



PATIENT PARAMETERS

```
*CMV/ACMV*
Vt:0500mIIF:16bpm
I/E:50% | Trig:-20mb
PEEP:06 |
```

SET PARAMETERS

Dual Display

The two electroluminescent displays show the machine data and patient data.

All the parameters are set with one rotary knob and a touch button switch. Any change in value has to be validated for safety.

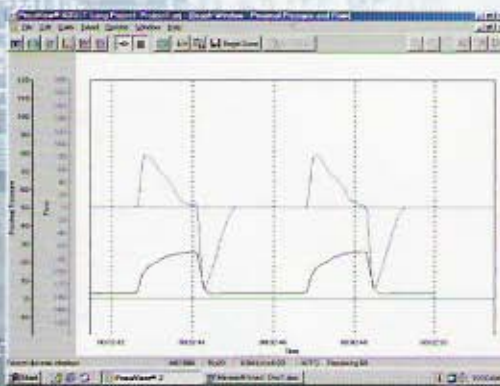
The Tidal Volume is variable to treat from paediatric patients to obese adults.

Strict quality control ensures flawless operation.

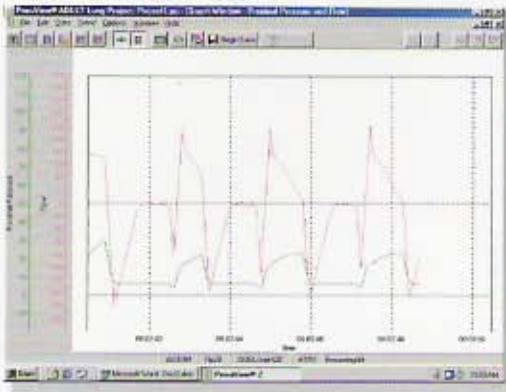
Tracing of Computerised test lung in Simulated Condition for a pressure Control breath.

The ORION is Calibrated with imported computerised test Lung System for accuracy.

The ORION is developed and conceived in close collaboration with leading Intensivists and Biomedical Engineers.



Orion 1000



Perfect pressure support:

Perfect pressure support is possible because of fast acting proportional valve.

Intelligent alarms

Intelligent memory alarms to handle any adverse condition give alarm only when necessary.

The Back up ventilation in all spontaneous modes ensures patient safety.

P-SIMV is a unique mode where PS and PCV are combined. Very useful in paediatric and ARDS condition.

Nebuliser is operational in controlled modes of ventilation without affecting the FIO₂.



Pipeline or

The ORION is designed to work with hospital Pipeline or with Air supply Unit mounted on wheels for easy mobility

Upgradable

ORION is easy to operate and maintain. There are no moving mechanical parts.

ORION being a well engineered product makes servicing and replacement of parts simple and easy.

Function and modes upgradation is possible without major changes.

ORION is designed to work in tough tropical condition of excess heat and humidity.

Orion 1000

SPECIFICATIONS OF ORION 1000

Applications

Adult- Paediatric ☼ Intensive Care Units - Post operative ☼ Emergency

Specifications

Tidal volume.....	50 to 1500 mL
Peak Flow.....	180 Ltrs / min.
Frequency.....	8 to 40 breaths / min
SIMV Frequency	1 to 40 breaths / min
PEEP.....	0 to 20 mb
Pressure support.....	1 to 30 mb
FiO ₂	21 to 100%
Inspiratory pressure trigger.....	-1 to -20 mb
I / E Ratio.....	25 to 50 %

Technical specifications

Electrical supply.....	200 to 240 V 50 to 60 Hz 65 VA
Medical gases.....	2.8 - 6bar
Weight Of Respirator.....	18 kgs
Dimension.....	Depth-350 mm.....Height-230 mm.....Width-420 mm

Modes

Volume Controlled - CMV
Assisted Controlled - ACMV
SIMV - Volume Controlled
Pressure Controlled - PCV
Pressure Assisted Controlled - APCV
SIMV - Pressure Control
Pressure Support Ventilation - PSV
CPAP
NIV

Alarms

P max
VT min / max
FiO ₂ min / max
Patient disconnection
f min / max
Apnea ventilation
Minimum Volume Min / Max
Power Supply failures

Other functions

Nebulization

Emergency ventilation

"User Configuration" menu

* Optional

Manufactured by:

Electrocare Systems & Services Pvt. Ltd.



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