

A DEDICATED NEONATAL & PAEDIATRIC VENTILATOR

Model: Shreeyash SW21



About Shreeyash:

Shreeyash Electro Medicals is in to manufacturing of New Born life saving devices since last 30 years with an established sales & service network all across India.

The manufacturing activity is carried in Pune in an ISO 13485 certified premises.

Shreeyash was the First company in India to manufacture Bubble CPAP followed by Neonatal Ventilator in 2003 & subsequently the High Frequency Oscillatory Ventilator in 2006.

PC900



Introduction of PC 900 Ventilator:

PC 900 Ventilator is a Dedicated Neonatal & Paediatric Ventilator with different modes of Ventilation to assist the patient as per the need. Auto mode facility & Non- Invasive High Flow Oxygen therapy puts this device in the class of most updated Ventilators. "Shreeyash PC 900" is a Pressure & Volume controlled, Time cycled, Continuous Flow Respirator that is intended for Neonatal & Paediatric use.

Awards | Achevements | Approvals



Department of Critical care & Anesthesia honoured Dr. Sudhir Waghmare as a "Honourary Student" of KEM Hospital, Pune for his work in Ventilation.



Sudhir Waghmare, founder of Shreeyash, was honored by Camden University by offering him Hon Doctorate for his work in the field of Ventilation.



- 1) **Best Ventilator Award by Marico Innovation Foundation.**
- 2) Best Small Scale Industry Award from Govt. of Maharashtra.
- 3) Prestigious Parkhe Award from Chamber of commerce, Pune.
- 4) Udyogshree Award by Mumbai Chamber of commerce.



Specifications of Neonatal & Paediatric Ventilator

FiO ₂	21 to 100% Digitally Controlled & Displayed
Inspiratory Time	0.2 to 4 Seconds
Respiratory Rate	4 to 120 BPM
PEEP/CPAP	0 to 30 Cm H ₂ O
Peak Inspiratory Pressure	0 to 45 Cm H ₂ O
Tidal Volume	4 ml to 250 ml
Trigger Method Pressure & Flow	Flow (1 to 9 LPM) Pressure (Minus 1 to 9 Cm H ₂ O)
Flow	2 to 30 LPM

Invasive Modes of Ventilation

Pressure Control Modes:

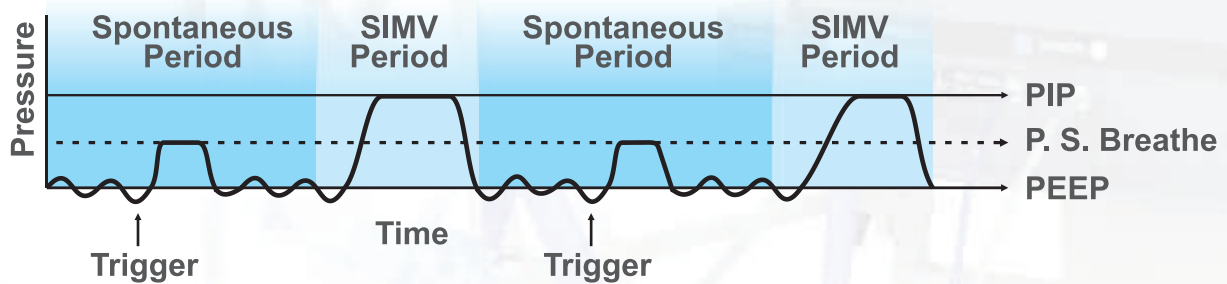
(Pressure limited, Time cycled, continuous flow)
Assist CMV + Sigh
Assist CMV
SIMV + PS
Inverse ratio Ventilation.

Volume Control Modes:

(Tidal Volume range: 4 to 250 ml)
Assist CMV + Sigh
Assist CMV
SIMV + PS
Inverse ratio Ventilation.

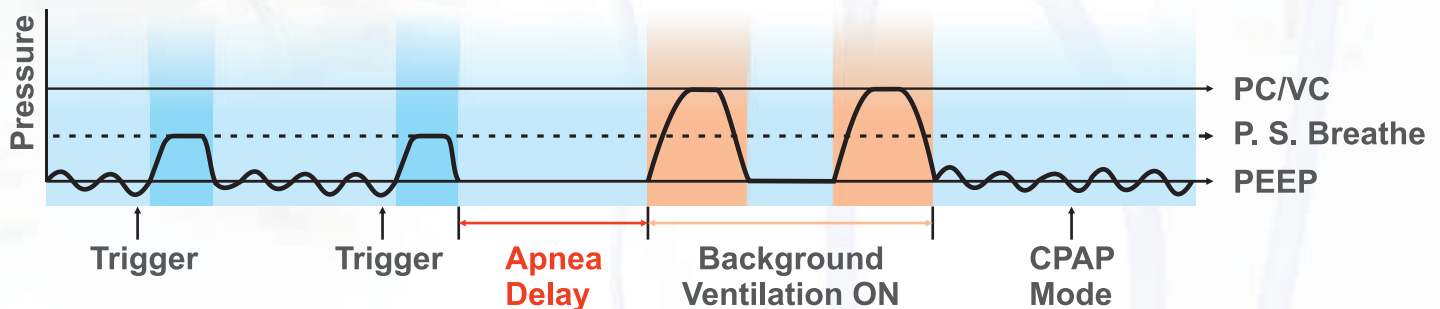
SIMV + Pressure Support

During the SIMV period, if the patient triggers the PC900, a synchronized breathe will be provided as per the set Peak Inspiratory Pressure & the Inspiration time. The patient is allowed to breathe spontaneously through the "BIAS FLOW" in spontaneous period. If during the spontaneous period, the patient Triggers the PC900, a "Pressure Support Breathe" is provided to the patient with a preset pressure above PEEP. This avoids unnecessary high Peak Airway Pressure, & also provides support to the patient's spontaneous breathe. The number of Pressure Support Breaths in the spontaneous period depends upon the patients breathing effort.



CPAP Plus Pressure Support, with AUTO MODE (Apnea Ventilation):

- Patient Breaths spontaneously through the Bias Flow and sets his own Rate and I:E. ratio.
- When the patient triggers the ventilator, a Pressure Support breathe is provided above PEEP as per the set pressure support values.
- Apnea alarm can be set from 1 to 60 seconds. If the patient does not breathe, the ventilator sounds an alarm & provide the patient with back ground ventilation as set by the clinician.
- The clinician needs to set the back ground ventilation Rate, T_i , PIP/Vt & ventilator mode (PC/VC) in CPAP with AUTO MODE.



Non-Invasive Modes of Ventilation

1. CPAP Plus PS. Auto mode provided in CPAP with Back ground Ventilation settings.
2. High Flow Nasal CPAP (HFNC) in which the clinician can set the FIO₂ from 21 to 100% & Flow up to 20 LPM.

Display:

A Seven inches Touch screen is provided that indicates, Flow v/s Time, Volume v/s Time & Pressure v/s Time graphs. It also indicates various parameters like set & delivered PIP, PEEP, FIO₂, delivered Tidal Volume, ongoing mode of ventilation, I:E ratio, Inspiration time etc.

Ventilator is provided with a Battery Backup which can operate the ventilator for 5 Hours when the battery is in fully charged condition.

Special Functions:

- Help Line facility that guides the user regarding various settings in various diseases.
- SIMV plus Pressure support.
- Auto mode in ACMV mode.
- Auto Mode in CPAP + PS Mode.
- Special Formula Key provided that indicates various formulas like calculation of MAP, New rate for a desired PaCO₂, Oxygen Index etc.
- Non-Invasive High Flow Nasal CPAP (HFNC Mode)
- CPAP plus Pressure support. This specialty mode puts the ventilator in the category of the most updated ventilators & is a boon for patients with "FLAIL" Chest.

Graphical representation provided for following:

- Volume vs Time
- Pressure vs Time
- Flow vs Time

Inbuilt Air Oxygen Blender:

Digital display provided for inhaled oxygen.

Following display's are provided on the 7 inches screen:

Set Tidal Volume, Delivered Tidal Volume, Expired Tidal Volume, Minute Volume, Positive End Expiratory Pressure (PEEP), Set Inspiration Time, I:E Ratio, Set Trigger Level Breaths Per Minute/R R, Peak Inspiratory Pressure, SIMV %, Patient Efforts Different Diseases & their settings in HELP Mode, different Formula's in Formula Mode MAP, Dynamic Compliance, Static Compliance, RSB Index, Peak Flow etc.



Alarms & Warnings

Oxygen & Air Supply Failure, High PIP, High PEEP, High Rate, Volume not Delivered, Patient in Apnea, Leakage in Patient circuit, Power Failure etc.

For further details, Please contact
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An established dealer network all over India ensures prompt post sales service of the Ventilator whenever required.



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