



FULLY AUTOMATIC ADULT & PAEDIATRIC VENTILATOR

Model: Shreeyash 900



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.

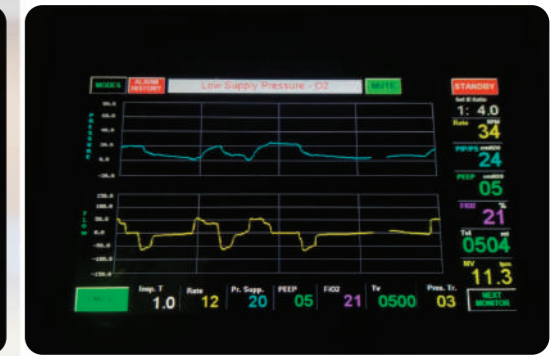
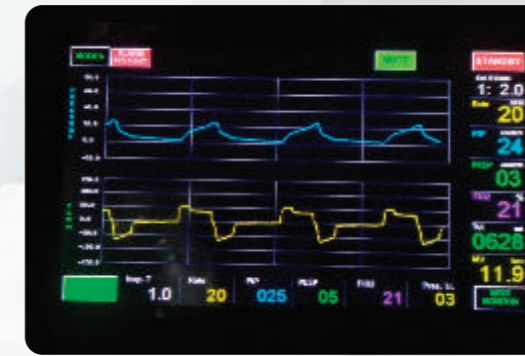
The manufacturing activity is carried in Pune in an ISO 13485 certified premises.

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.

With this strong background of clinical & technical expertise, Shreeyash Ventured into Manufacturing the Adult Ventilator.

The features of Shreeyash make Adult Ventilator are at par with any contemporary Ventilators across the globe. The Auto Mode provided in the Ventilator makes it an Unique life saving device.

The said ventilator is clinically validated & is also certified by Sr Intensivist from various hospitals in Pune. The said Ventilator has also passed the EMI & EMC test & IEC60601-1 & other related parameters from an Accredited Lab.



Technical Specifications of Ventilators

Power	230 Volts AC ± 10% 50 Hz
FiO ₂	21 to 100% Selectable
Respiratory Rate	4 to 60 BPM
Inspiratory Time	0.2 to 4 Seconds
Inverse Ratio Ventilation	Yes provided. Range 4:1
Battery Back up	4 Hours
PEEP	0 to 30 Cm H ₂ O
Peak Inspiratory Pressure	2 to 90 Cm H ₂ O
Trigger Method Pressure & Flow	1 to 9 Cm H ₂ O, & 1 to 9 LPM
Input Gas Pressure, Air & Oxygen	60 PSIG/4 Bar
Patient efforts in Assist Mode	Displayed on Digital Display
Volume Range	50 ml to 1500 ml

Awards | Achievements | 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.

Introduction of Shreeyash 900 Ventilator:

Shreeyash 900 Ventilator is a Volume & Pressure Controlled Ventilator with different modes of Ventilation to treat the patient suffering from various lung diseases. The CPAP Plus PS mode & the HFNC mode puts it in the category of the most updated ventilator.

"Shreeyash 900 is a Volume/Pressure controlled Ventilator that is intended for Adult & Pediatric use.

A Seven inches Touch screen is provided that indicates various settings, alarms & other related parameters.

It indicates the ongoing mode of ventilation. It also indicates the Pressure v/s Time, Volume v/s Time & Flow v/s Time graph. It simultaneously display's parameters like the Inspiration Time, Respiratory Rate, Delivered Oxygen Percentage, Set & Delivered Tidal Volume, Delivered & set Pressure, PEEP & various other important parameters that are of utmost importance to the clinician.

Special Functions:

- Auto Mode provided in this Ventilator will be of utmost help to the clinician & attending staff which ensures safe Ventilation of the Patient.
- The Auto mode can be activated in ACMV & CPAP 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. The setting of background ventilation in CPAP mode, ensures effective ventilation of the patient in case of Apnea.

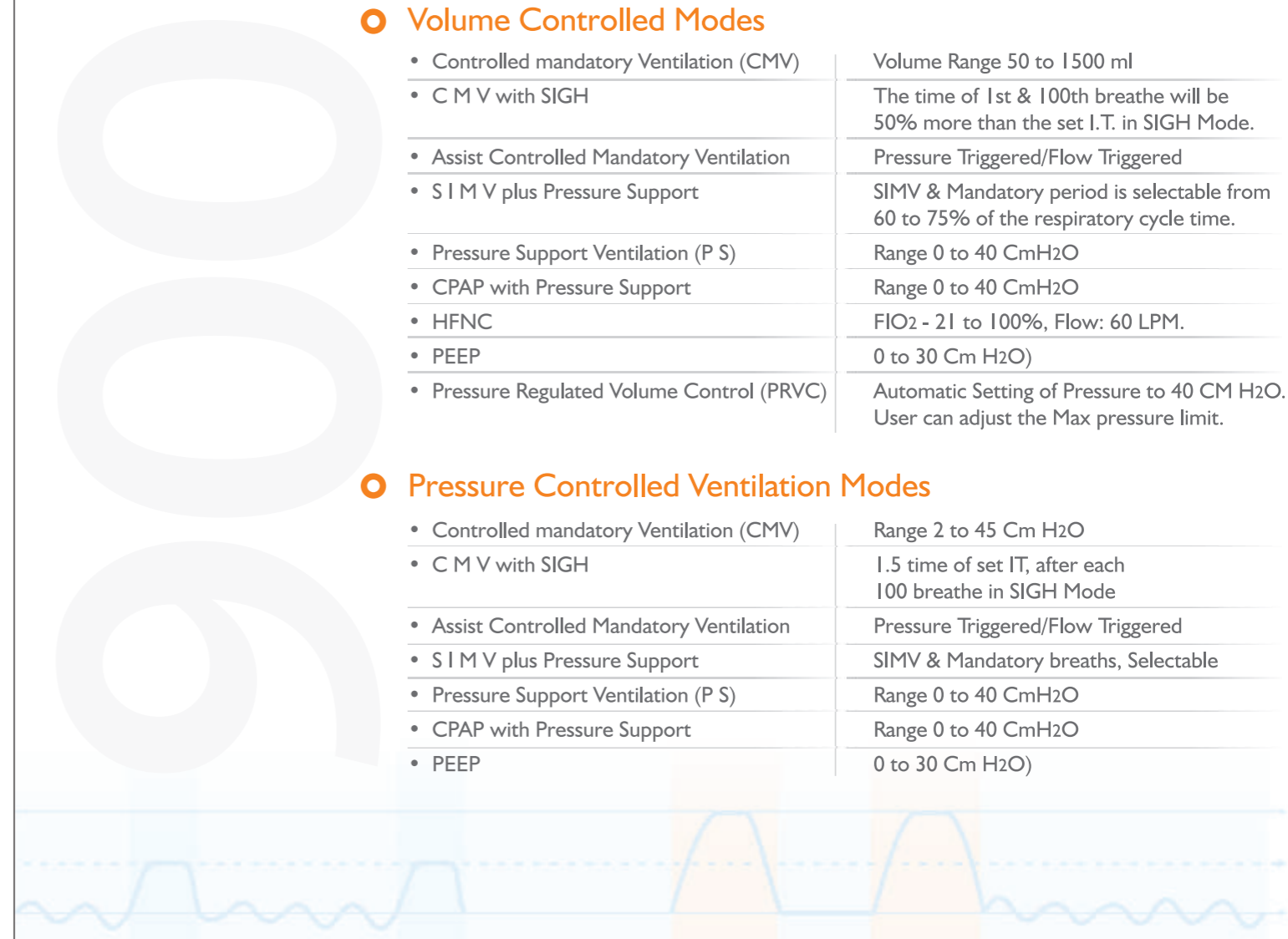
- HFNC mode.
- SIMV Plus Pressure support.
- Help Line facility that guides the user regarding various settings in various diseases.

Volume Controlled Modes

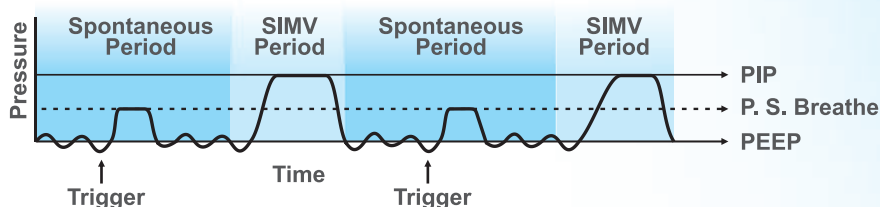
• Controlled mandatory Ventilation (CMV)	Volume Range 50 to 1500 ml
• C M V with SIGH	The time of 1st & 100th breathe will be 50% more than the set I.T. in SIGH Mode.
• Assist Controlled Mandatory Ventilation	Pressure Triggered/Flow Triggered
• S I M V plus Pressure Support	SIMV & Mandatory period is selectable from 60 to 75% of the respiratory cycle time.
• Pressure Support Ventilation (P S)	Range 0 to 40 CmH ₂ O
• CPAP with Pressure Support	Range 0 to 40 CmH ₂ O
• HFNC	FI _O ₂ - 21 to 100%, Flow: 60 LPM.
• PEEP	0 to 30 Cm H ₂ O)
• Pressure Regulated Volume Control (PRVC)	Automatic Setting of Pressure to 40 CM H ₂ O. User can adjust the Max pressure limit.

Pressure Controlled Ventilation Modes

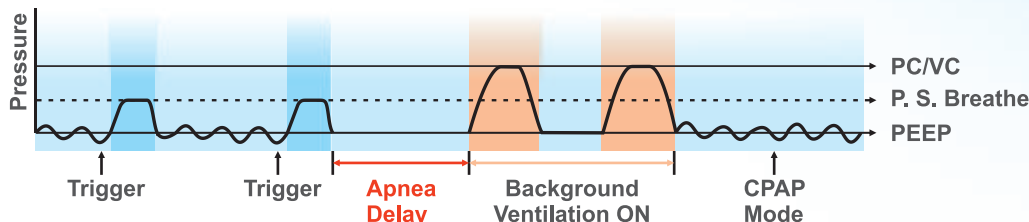
• Controlled mandatory Ventilation (CMV)	Range 2 to 45 Cm H ₂ O
• C M V with SIGH	1.5 time of set IT, after each 100 breathe in SIGH Mode
• Assist Controlled Mandatory Ventilation	Pressure Triggered/Flow Triggered
• S I M V plus Pressure Support	SIMV & Mandatory breaths, Selectable
• Pressure Support Ventilation (P S)	Range 0 to 40 CmH ₂ O
• CPAP with Pressure Support	Range 0 to 40 CmH ₂ O
• PEEP	0 to 30 Cm H ₂ O)



SIMV + Pressure Support



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



Graphical representation provided for following:

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

Inbuilt Air Oxygen Blender.

Digital display provided for inhaled oxygen.

Display provided for:

Set Tidal Volume	Displayed on screen 4 digits
Delivered Tidal Volume	Displayed on screen 4 digits
Expired Tidal Volume/ Minute Ventilation	Displayed on screen
Positive End Expiratory Pressure (PEEP)	Displayed on screen 2 digits
Set Inspiration Time	Displayed on screen 2 digits.
I:E Ratio	Displayed on screen 3 digits
Set Trigger Level	Displayed on screen 3 digits
Breaths Per Minute/R R	Displayed on screen 2 digits.
Peak Inspiratory Pressure	Yes, Displayed on the screen
SIMV %	Displayed on screen 2 digits
Patient Efforts	Displayed on screen 2 digits
Different Diseases & their settings in HELP Mode	Alpha Numerical
Different Formula's in Formula Mode	Alpha Numerical
MAP (Mean Airway Pressure).	Displayed on screen 2 digits
Dynamic Compliance,	
Static Compliance, RSB Index.	

Alarms & Warnings

Volume not Delivered	Audio Visual
Patient in Apnea	Audio Visual
Air Supply Failure	Audio Visual
Leakage in Patient Circuit	Audio Visual
Low Inspiration Pressure	Audio Visual
High Inspiration Pressure	Audio Visual
Oxygen Supply Failure	Audio Visual
Power Failure	Audio Visual

Special Formula Key provided that indicates various formulas like calculation of MAP, New respiratory rate for a desired PaCO₂ etc.

Help key: To access information regarding ventilator setting parameters in specific diseases. Useful feature in Rural areas.

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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