Mindray

SV800/SV600
Ventilator

All Intelligence Leads to Ease

www.mindray.com

Mindray

healthcare within reach

Operational freedom

In the modern busy clinical environment, ease of use is a fundamental requirement for all medical devices. With this in mind, the new Mindray SV800/SV600 ventilators enable clinicians to set and deliver ventilation therapies quickly and easily via the intelligent ergonomic design and flat user interface.
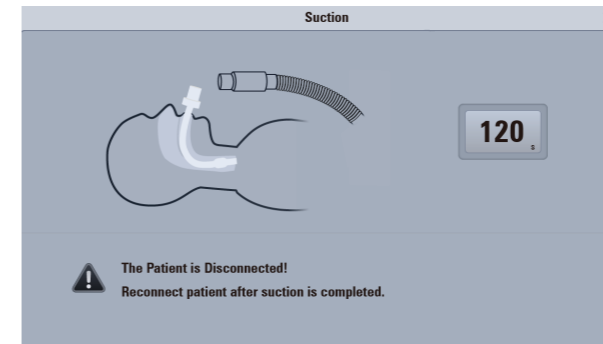
360° view

1080p HD resolution

PulmoSight
Utilizes numerical and graphical displays to show real time resistance, compliance and the spontaneous breathing status. Combined with the dynamic short trend display clinicians are able to monitor and evaluate changes in the patient's pulmonary ventilation and initiate the appropriate therapies.

Customizing the UI
The SV800 / SV600 ventilator offers exceptional user flexibility. Users are able to configure frequently used parameter controls by making them quick access shortcut keys in the UI. Also the ventilation mode keys can be arranged in order of frequency of use. This enables you to customize your device your way making parameter adjustment easier and quicker.
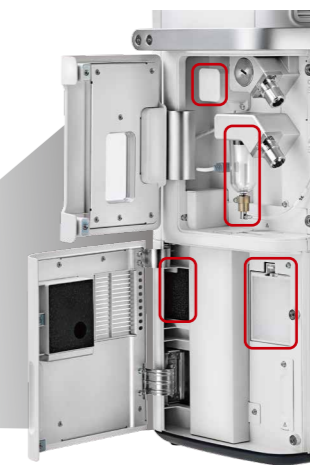
Graphic guidelines
The new easy to read graphical display enables users to learn quickly how to navigate and locate mode and parameter controls, thereby reducing errors and improving efficiency.

Single level menu design
A flat menu UI avoids the older, more cumbersome, menu style control and ensures that frequently used controls are located on the main UI where they are needed most.

Minimal Maintenance
Routine maintenance requires no tools. The new 'door design' means that no tools are required to perform regular routine maintenance of, but not limited to, the: oxygen sensors, water trap, the fan dust filter, HEPA air intake dust filter, etc. This ensures your new device always remains clean and clutter free.
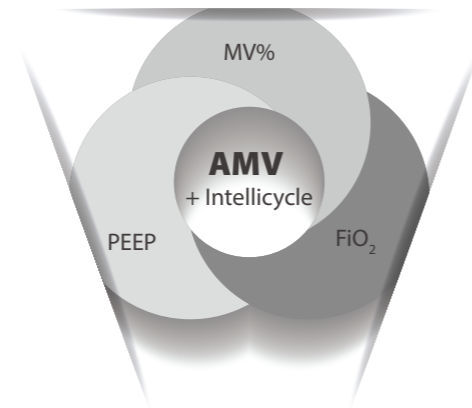
Make the right decision

Ventilation modes and decision-supporting tools like Intelligent Assistant are developed on the basis of clinical needs and professional guidelines to help medical personnel calmly make clinical decisions.

An extensive range of ventilation modes

Smart ventilation solution: AMV + Intellicycle

Ventilation mode selection and parameter adjustment may be a challenge for many clinicians. Mindray's Adaptive Minute Ventilation (AMV) has been developed using the internationally recognized Otis's Minimum Breathing Work principle. With this feature the new Mindray SV800 / SV600 ventilators are able to intelligently select the optimal Tidal Volume and Respiratory Rate along with the optimal I:E ratio after setting the desired target Minute Volume and switches easily between mandatory breath and spontaneous breath.

- Intellicycle employs intelligent waveform tracking technology to automatically adjust the spontaneous breath's cycling point to improve ventilator/patient interaction. This reduces the risk of patients breathing asynchronously against the ventilator.
- The combination of AMV and Intellicycle enables the ventilator to make automatic adjustment to ventilator settings reducing the need for clinicians to make repeated, low level, adjustments so they can direct their focus more effectively on other aspects of patient care.

MV%

AMV
+ Intellicycle

PEEP

FiO_2

Emergency solution: CPRV

The innovative CPR emergency ventilation mode, based on traditional controlled mandatory ventilation, automatically shielding the triggers and automatically adjusts alarm limits, also integrates of CO_2 monitoring. A Quick Start button ensures no time is lost in commencing this key emergency feature.

Sequential treatment regimen:
Non-invasive ventilation & high flow oxygen therapy

The frequency of tracheal intubation and its associated complications may be significantly reduced when a non-invasive ventilation therapy regimen is employed during the pre and post weaning phase. This technique is becoming more common within the ICU environment. To ensure the desired therapeutic effects are realized Mindray SV800 / SV600 ventilators employ a leakage compensation capability of 65 L/min.
High flow O_2 therapies are supported with controlled warming and humidification and are capable of a maximum flow rate of 60 L/min. This safe and effective technique is associated with a high degree of patient comfort and is rapidly becoming the brand-new non-invasive technique of choice for many patients.
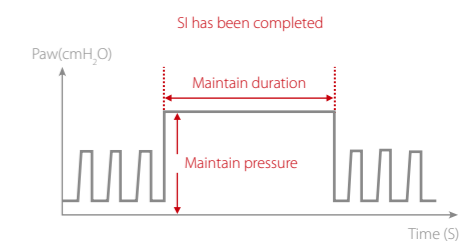
Powerful tools

Dual channel auxiliary pressure monitoring

The auxiliary pressure port can be connected to an esophageal balloon catheter and display esophageal and transpulmonary pressures. These parameters can help clinicians make clear the respiratory mechanics in difficult condition, thus guiding the treatment for critically ill patients.
The Dual channel auxiliary pressure monitoring can also be used to evaluate diaphragmatic pressure calculation etc.

Lung protection kit

The extensive lung protection kit includes Vt/IBW, C20/C , low flow PV tool and lung recruitment tool (Sustain Inflation), enablinges doctors to use small tidal volume ventilation strategy freely, titration of PEEP, and perform lung recruitment, thus improving lung ventilation protection.

SI has been completed

Paw(cmH_2O)

Maintain duration

Maintain pressure

Time (S)

Weaning tool

The Weaning tools can initiate a spontaneous breathing test (SBT) and monitor a wide range of weaning parameters; weaning is prompted after completing the SBT process. In case of any abnormalities, the process is quickly cancelled; the previous mode is restored to ensure the safety of the patient.

Connect freedom

Within the clinical field device and internet technologies continues to advance and become ever more integrated. Securing your devices future is reliant on being able to expand your devices capabilities by interacting or integrating new concepts and technologies.
The new SV800 / SV600 ventilators allow just this. Utilizing the latest electronic software and hardware your new device is ready to embrace new technological advancement with ease.

Integrated infant module (optional)

Through precision control technology with proximal flow sensor the new SV800 / SV600 ventilators can accurately deliver minimum Tidal Volumes as low as 2ml to fully meet the invasive and non-invasive ventilation requirements of infants.

SpO$_2$ module

The Plug & Play module is compatible with monitor. Its parameters can be integrated into weaning tools, and also helps optimize the respiratory monitoring process. Therefore, it helps effectively decrease the procurement and management costs of relevant departments.

EtCO$_2$ module

Two Plug & Play CO$_2$ modules including mainstream and sidestream modules both compatible with monitors are optional for CPRV mode and can be integrated into weaning tools.

Backup air supply

In the event of central air supply failure the new SV800 / SV600 ventilator can be started quickly using the backup air supply.
The backup air supply utilizes high performance turbine enabling the user to continue to use the ventilator safely and with full functionality whilst benefiting from lower noise levels and longer service life.

Hospital internal network

The new SV800/SV600 can be seamlessly connected to the hospitals clinical information system via the Mindray Benelink monitoring system networking solution, with high performance-price ratio; Or to the standard medical information exchange protocol (HL7) networking program, with its extended flexibility.

LIS

HL7

HIS

BeneLink

Patient Monitor   CentralStation   eGateway

PASS

EMR