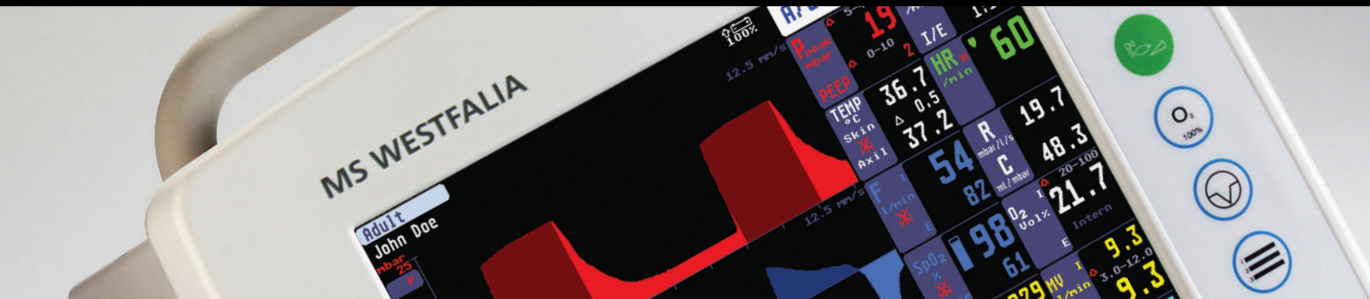


ICU Station MythoVent

Revolutionary Respiration and Patient Monitoring



MythoVent

ICU Station with Triple Processor Control

The only ICU Station in the world with ventilation and associated vital signs parameter monitoring with triple processor control for the highest security level

Slim Space-Saving Design

Ergonomic and slim design ensures better access to a patient and offers numerous mounting solutions (wall, bed, trolley)

No Additional Investments

MythoVent was specifically designed to avoid high costs for maintenance and disposables (autoclavable cassettes, everlasting O₂ sensor, no customized accessories)



ICU

Emergency Room

MythoVent

One solution that suits all

Post-Anesthesia

Inner-clinical Transport

Operation Theatre *

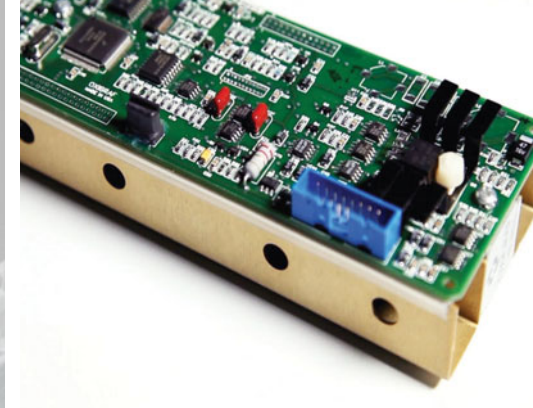
* Anesthesia Station: MythoVent + Maja



01 Automatic TC (Tube Compensation)
/ Tracheal Tube Cuff Pressure
Control Regulation



02 Built-in intelligent pneumatic
medication nebulizer system
automatically activated during
75% of the inspiratory phase



03 Fast and precise oxygen
measurement by laser absorption
spectroscopy method



04 Exchangeable,
autoclavable aluminium
plug-in cassettes

ICU Station MythoVent

Revolutionary Respiration and Patient Monitoring

Developed in close cooperation with university clinics and TÜV, the unique ICU station MythoVent provides the highest pneumatic driven ventilator performance and vital signs monitoring in one.

The device offers modern invasive and non-invasive ventilation with maximum comfort for adult and pediatric patients. Ergonomic and slim space-saving design allows various mounting options.

Innovation. Precision. Quality.



05 All ventilation modes maintain Assisted Spontaneous Breathing and show P.01 and intrinsic PEEP

06 Possibility to choose between interval and continuous NIBP measurement

07 Smart and user-friendly interface

08 The alarm system displays 30-minute-trends of the monitored parameter

MS Westfalia GmbH, a certified German manufacturer (ISO-9001, ISO-13485) of medical equipment with headquarters in Troisdorf and R&D and production lines in Munich, presents:

- R&D — unique technologies
- Made-in-Germany quality of manufacturing, long-time tests
- High reliability
- Trainings for marketing, sales and technical service
- Complete hospital equipment and multi-modality projects
- Marketing assistance for distributors worldwide
- Technical support

MS Westfalia. Your German Manufacturer.

The only ICU Station in the world with ventilation and associated vital signs parameter monitoring in one device

Several additional diagnostic devices must be implemented during ventilation to make the right diagnosis, but only MythoVent enables simultaneous control of associated vital signs.

The ICU Station MythoVent is the first ventilator in the world, which monitors and displays graphs and figures for such vital parameters as 3/5-lead ECG (ST-analysis, arrhythmia), Nellcor OxiMax SpO₂, 2 x Temp, NIBP, and 2 x IBP.

This makes it easy to monitor patient's condition and quickly evaluate critical changes without any additional equipment.

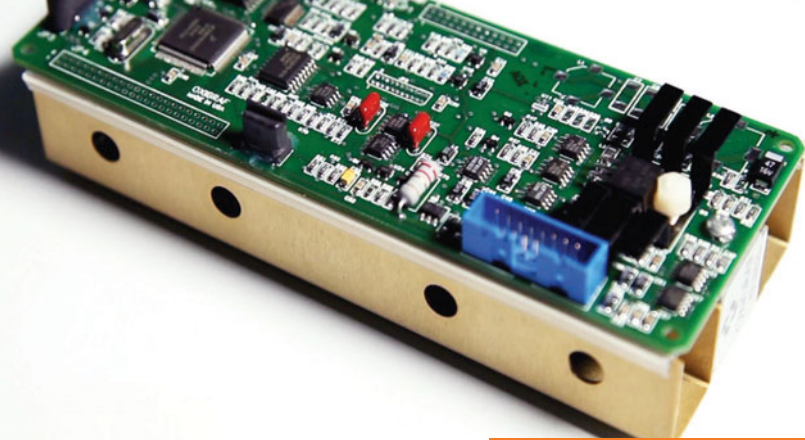
Automatic TC (Tube Compensation) / Tracheal Tube Cuff Pressure Control Regulation

We care not only about the patient treatment, but also try to prevent any complications after intubation. The risk of tracheal mucous membrane injury increases during the long-term IC.

Only MythoVent helps to avoid after-effects of a long-term intubation. The device automatically controls and regulates cuff pressure and airtightness which guarantees patient's comfort and significantly better outcomes.

The tracheal tube cuff pressure is adjusted automatically as an offset to the respiratory and PEEP pressure and provides a safe closing pressure in the trachea.





Laser Absorption Spectroscopy



Tube Cuff Pressure Control Regulation



Intelligent Nebulizer System

Built-in intelligent nebulizer system automatically activated during the first 75% of the inspiratory phase

Due to unique technologies of MythoVent the therapy has become more efficient. Built-in pneumatic nebulizer sprays medicine during ventilation.

In MythoVent medicine is given to a patient only during the first 75% of the inspiratory phase. This ensures that medication reaches the patient effectively and the breathing circuit filter systems are kept free. Experts confirm that this way of treatment is the most effective.

Fast and precise oxygen measurement by laser absorption spectroscopy method - no calibration, no maintenance, no "falling effect", no exchanging

The revolutionary solid-state sensor technology allows to measure oxygen concentration immediately (< 0,2 s), accurately (0,1 % resolution) and with minimal cross-sensitivity to other types of gas molecules.

It is unique and fundamentally different. MythoVent laser oxygen sensor does not need any calibration or exchange and can be used during the whole lifetime of the device itself.

High security level

MythoVent is not a two in one device, it's an ICU Station, specifically designed to be a ventilator and a vital parameter signs monitor, and therefore it has a redundant construction. Multiple microprocessors are controlling each other, to ensure the highest safety for the patient. You don't need to worry about failures. Should any processor fail, there is a security system which will take over its work.

Smart and user-friendly interface

MythoVent has a 10,4" LCD color display with auto-light sensor (auto, dark, medium, bright) and clearly defined control buttons areas: for ventilation, vital parameters and system control.

There are 6 layouts for up to 8 curves and 2 loops. 12 out of 24 related measured values may be visualized on the screen. All the curves, numerical values and settings for alarm, ventilation and monitoring may be individually configured and saved (up to 10 individual profiles).

It is the most comfortable and easy way to analyse all the important patient data and make a precise diagnosis.

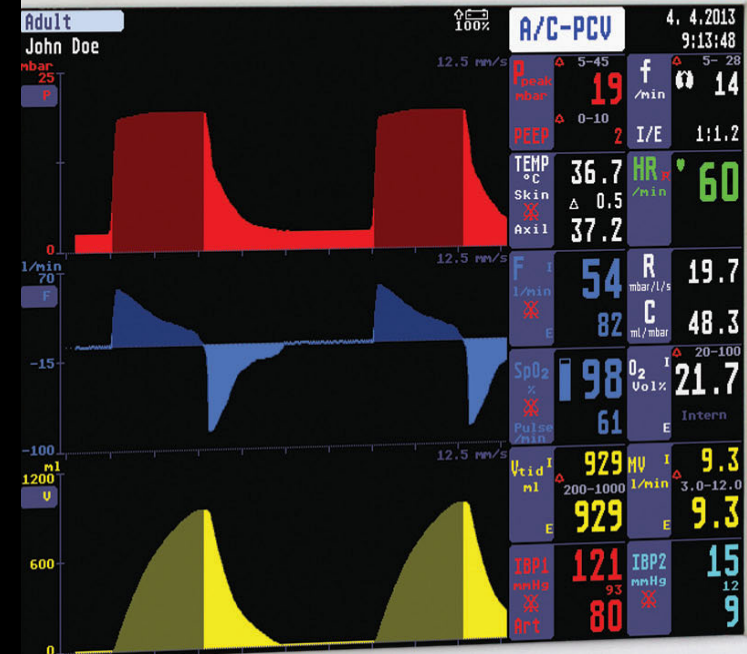
All ventilation modes maintain Assisted Spontaneous Breathing

MythoVent supports spontaneous breathing trials to assess the ability of a patient to breathe unaided. CPAP/PSV, BILEVEL, M, SIMV (pressure controlled / volume controlled), PRVC (Pressure Regulated Volume Control), A/C (VC/PC), Apnea backup ventilation - all signs of spontaneous breathing are always controlled and supported in any ventilation mode.

Intrinsic PEEP and P0.1

MythoVent measures the values of P0.1 and intrinsic PEEP and displays up to 20 measurements. The occlusion pressure P0.1 can be used to determine the right weaning moment, to gain a better outcome for the patient after ventilation.

MS WESTFALIA



MythoVent





Exchangeable autoclavable cassette

Exchangeable autoclavable aluminium plug-in cassettes

There are 2 types of plug-in cassettes - for coaxial and dual hose systems. Both contain expiration valve. Only in MythoVent a long-life cassette can be cleaned, sterilized, disinfected and used again and again. It allows a full time operation by exchanging of the cassettes. Built-in CO₂ side-stream measurement.



Built-in CO₂ side-stream measurement

Built-in CO₂ side-stream measurement

It's necessary to make sure that the patient's exhaled breath has a low concentration of CO₂. Highly accurate and sensitive MythoVent capnograph (optional) enables easy and precise detection of changes in patient's condition during the expiration phase.



Perfect transportability

Perfect transportability — safe and quick

Inner-clinical patient transportation becomes safer and more comfortable with MythoVent. An internal battery with 5 l O₂ / Air bottle goes in combination with the trolley mounting (external battery packs, 2 full size bottles of O₂ and air, coupling for bed frame, infusion stand).

NIBP

MythoVent has the possibility to start a single measurement of the non-invasive blood pressure, a continuous one for 5 minutes or set a time interval for regular measurements from 1 to 120 minutes.

Full range of ventilation features

As part of its standard configuration MythoVent offers extra-features: Non-Invasive-Ventilation (NIV), Tube Compensation (TC), Sigh, Apnea Time, maximum inspiratory time for pressure support, additional software safety pressure, modern flow and pressure triggers.

These features allow making ventilation even more precise and effective.



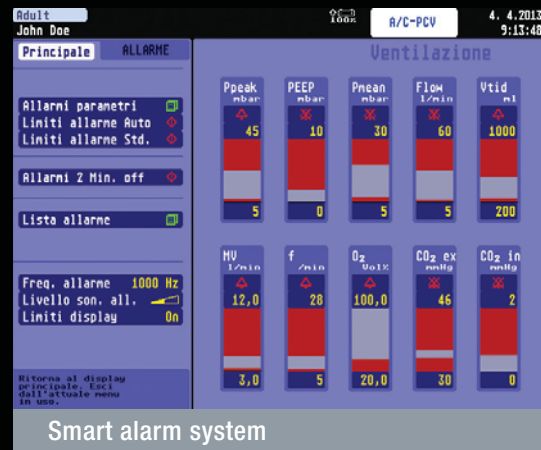
Full range of ventilation features

Smart alarm system

A helping hand for a specialist - MythoVent has the same alarm setting philosophy for both ventilation and monitoring. All the alarm messages are displayed on the same screen and in one place, thus, saving doctor's time.

The alarm setting system contains all standard limits, which can be adjusted either manually or automatically according to the current state of the patient.

The graphical display shows in an easy way if a parameter is monitored, what the upper and lower limits are and the parameter trend of the last 30 minutes.



Smart alarm system

96h trend storage

Any mistakes in the treatment can be damaging for the patient. To prevent any negative consequences it is necessary to know all the details of patient's history. MythoVent stores trends for up to 4 days.





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Troisdorf | Germany

R&D and Production
Munich | Germany

Office
Moscow | Russia

Office
St. Petersburg | Russia

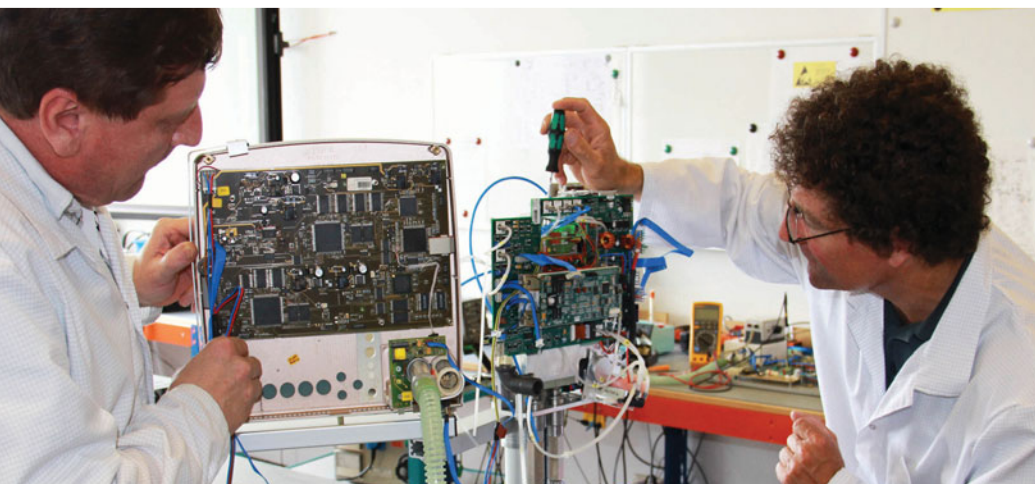


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Production lines | Munich

- X-Ray diagnostic equipment
- Surgical lamps and OP cleanrooms
- Functional diagnostics
- Microscopes and colposcopes
- Lithotripsy
- ENT equipment
- Anaesthesia and ICU equipment
- Ophthalmic equipment
- Physical therapy and rehabilitation
- Beauty and SPA equipment



Research and development | Munich

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