

HOSPITAL



ANAESTHESIA

Complete range for OR, induction and recovery:

- Anaesthesia devices
- Recovery room
- Accessories

ANAESTHESIA

LEON

Proven, intuitive, stable

The advances in anaesthesia treatment have resulted in rising demands for modern anaesthesia workstations. Löwenstein Medical has developed the anaesthesia machines Leon and Leon plus to meet these new demands. The devices offer top technical performance for optimal support in day-to-day work. Leon and Leon plus combine a proven hygiene concept and ergonomic design with cutting-edge technology and sophisticated expansion options. Thus, the rebreathing system ventilation performance of the Leon model reaches the level of an intensive care ventilator.

The absorber can be changed during operation. A number of platform concepts are available for ceiling or wall mounting. Leon features a 12-inch TFT touchscreen display.

Thanks to their true platform design with modular components, these modern anaesthesia machines can be fully integrated into your specific working environment to precisely match your personal workflows. The individual configuration options guarantee maximum comfort and provide optimal support during induction, in the OR, during therapy, and in any hospital system.

- Rebreathing system ventilation performance at the level of an intensive care ventilator
- 12-inch TFT colour touchscreen display
- Leon provides the following modes of ventilation: volume-controlled intermittent mandatory ventilation (IMV), pressure-controlled ventilation (PCV), synchronised intermittent mandatory ventilation (S-IMV), synchronised pressure-controlled ventilation (S-PCV), pressure support ventilation (PSV), spontaneous breathing (SPONT); following modes can be activated when needed: ventilation mode for patients on a heart-lung machine (HLM), manual ventilation (MAN), and patient monitoring during regional anaesthesia (MON)
- Conventional gas mixing using flow tubes
- Pneumatic ventilator drive
- Patient system designed for efficient preparation and easy set-up
- Absorber change during operation
- Ventilation technology suited for patients of all age groups
- Optional gas gauge with gas identification
- Integrated vacuum source for bronchial suctioning with vacuum display
- Battery life up to 100 minutes



Anaesthetic vaporisers



LEON PLUS

Leon plus offers a rebreathing system ventilation performance at the level of an intensive care ventilator; high-precision electronic gas mixing in a wide flow range from 200 ml/min to 18 l/min along with a number of platform concepts for ceiling or wall mounting. The absorber can be changed during operation.

Moreover, Leon plus is equipped with a 15-inch TFT colour touchscreen display and is available with a gas sensor with a range of different equipment options – the gas identification gauge is integrated into the display.

- Standard equipment of Leon model
- 15-inch TFT colour touchscreen display
- Leon plus provides the following modes of ventilation: volume-controlled intermittent mandatory ventilation (IMV), pressure-controlled ventilation (PCV), synchronised intermittent mandatory ventilation (S-IMV), synchronised pressure-controlled ventilation (S-PCV), pressure support ventilation (PSV), manual ventilation (MAN), spontaneous breathing (SPONT), and patient monitoring during regional anaesthesia (MON); ventilation mode for patients on a heart-lung machine (HLM) can be activated when needed
- High-precision electronic gas mixture in a flow range from 200 ml/min to 18 l/min; usable from semi-closed to virtually closed
- Gas sensor available in various designs with gas identification gauge integrated into the screen display
- Paramagnetic O₂ measurement
- Selection for simultaneous display of 4 real-time curves
- Three simultaneous loops can be displayed for lung function monitoring: Flow over volume, volume over pressure, flow over pressure
- Full data management with trend display
- Fresh gas consumption gauge
- Optional upgrade: Neonatal mode VTG/ guaranteed tidal volume
- Optional upgrade: HL7 interface



Writing surface



Circulation system

ANAESTHESIA

WALL/CEILING MOUNTING

The two anaesthesia machines Leon and Leon plus are also available in configurations for wall/ceiling mounting. Leon Wall and Leon plus Wall combine a proven hygiene concept and ergonomic design with cutting-edge technology and sophisticated expansion options.

Both devices offer a rebreathing system ventilation performance at the level of intensive care ventilators, high-precision electronic gas mixing in a wide flow range from 200 ml/min to 18 l/min along with a number of platform concepts for ceiling or wall mounting. The absorber can be changed during operation, and a number of platform concepts are available for ceiling or wall mounting. Both Leon and Leon plus are network-enabled for direct connection to all conventional patient data management systems (PDMS).

Moreover, Leon plus Wall is equipped with a 15-inch TFT colour touchscreen display and is available with a gas sensor with various equipment options - the gauge, with or without gas identification, is integrated into the display.

Since both devices have the same design as the stand-alone versions, Löwenstein Medical offers further application options in the area of anaesthesia that make your work processes even more flexible. Configure the workstation to suit your individual requirements on the basis of a Leon or Leon plus platform. These anaesthesia workstation modules guarantee the highest level of flexibility and safety, now and in the future.



Leon Wall



Leon plus Wall



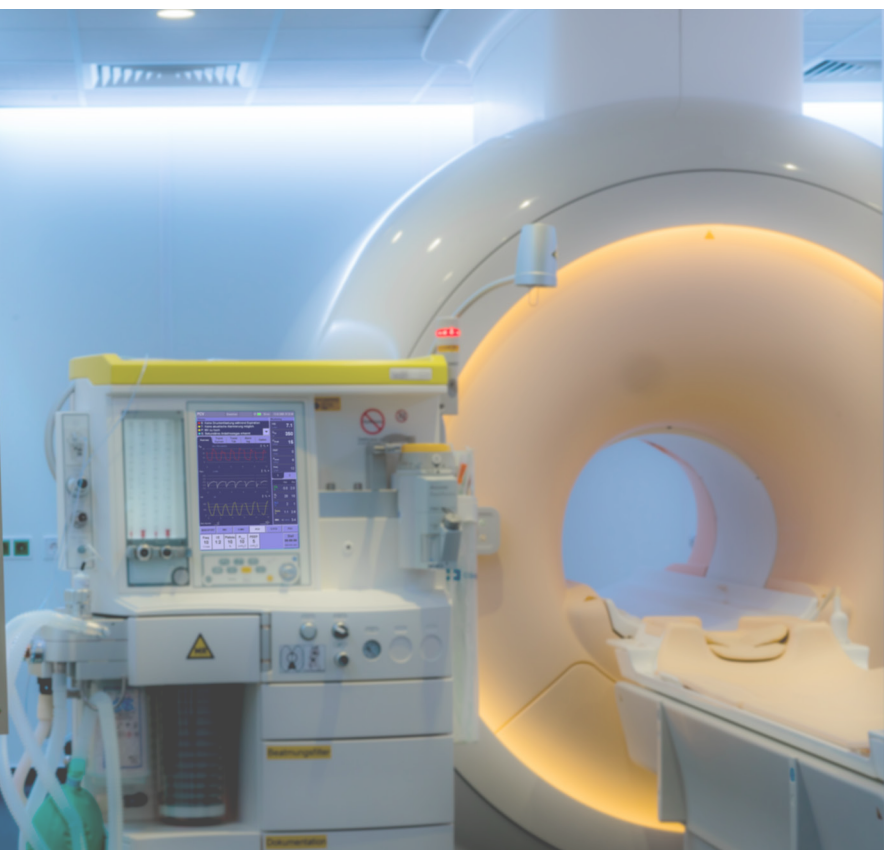
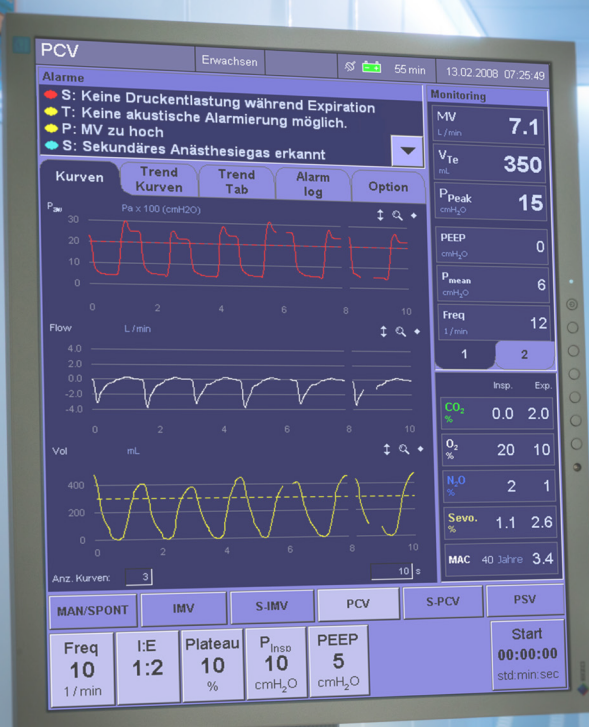
Leon plus ceiling configuration

LEON MRI

Specifically designed for use in cardiac cath labs or MRI

Leon mri was specifically developed for use in MRI environments with magnetic field strengths of up to 40 millitesla. It is guaranteed to function with 1.5 Tesla and 3.0 Tesla MRI systems. An LED light that is visible from all sides, including outside of the MR field, clearly displays alarms and notifications in various colours depending on priority.

- The only device in its class that can be equipped with an integrated CO₂ and anaesthesia gas gauge
- Optionally, the device can be connected to a second screen, outside of the MRI range, via a fibre-optic cable
- MRI-compatible touchscreen technology
- Both the performance range and the operation of the Leon mri device match the proven Leon model precisely, without limitations
- The mutual compatibility of the compact circuit systems in the Leon plus, Leon and Leon mri models are another major logistical advantage
- An integrated magnetic field strength monitor verifies the position in relation to the MRI
- The Leon mri model is equipped with a central brake to keep it in position. All four wheels can be locked simultaneously with a single foot lever
- Optional upgrade: Neonatal mode VTG - 3 mlVTG
- Optional upgrade: RS232 data interface via fibre-optic cable



RECOVERY ROOM

OXYGEN BLENDER

MAXBLEND 2

High-flow/low-flow air-oxygen blender

Maxblend 2 is an easy-to-use, low-maintenance blender with an integrated oxygen analyser. It features a variety of functions, including a backlit LCD and acrylic flow meter, intelligent alarms and an optional AC power supply. The modular flow meters can be added to the configuration. The whisper quiet operation enables bedside use without disturbing patient rest.



MAXVENTURI

High-flow air-oxygen blender

MaxVenturi was specifically developed as a high throughput interface, e.g. for air humidification systems. Using the proven Venturi principle, the device offers the option to mix ambient air with medical oxygen without the need for an air supply source.

MICROMAX

High-flow/low-flow air-oxygen blender



MicroMax offers the performance of a precise air-oxygen blend. In the high-flow variant, the total throughput range is 15-120 l/min, while the low-flow variant has a capacity of 3-20 l/min. MicroMax also includes a connection port for oxygen concentration measurement for continuous monitoring of the administered oxygen concentration with the optionally available oxygen analyser.

BLENDERBUDDY 2

Blenderbuddy 2 is a flow meter designed for use with Micromax or a different (existing) blender. It can be equipped with various oxygen analysers.



MAXBLEND LITE

In conjunction with an existing stand-alone blender, MaxBlend Lite offers the additional functionality of a backlit oxygen analyser with intelligent alarm settings and AC power supply

RECOVERY ROOM

charisma

High-flow CPAP solution

charisma stands for a new generation of clinical respiratory therapy devices that was developed particularly for modern challenges and enables all kinds of CPAP and high-flow therapy. Thanks to its easy operation, versatile respiratory therapy modes, integrated consumption-free oxygen gauge and adjustable alarm limits, the device can be used in acute care units such as recovery rooms, monitoring wards, physiotherapy and general wards.



Areas of use and application:

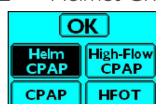
- Application in intensive care units, IMC, anaesthesia, general wards and emergency rooms
- Suitable for use with helmet ventilation, nasal CPAP and high-flow CPAP

charisma's benefits for CPAP and high-flow therapy:

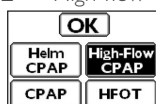
- Integrated drug nebuliser
- Modes for helmet CPAP, mask use and nasal application
- Consumption-free oxygen sensor for FiO₂ monitoring
- Leakage compensation up to 200 l/min
- High pressure stability
- Intelligent alarm system

Functions:

■ Helmet CPAP



■ High-flow CPAP



■ CPAP



■ HFOT



Optional products

1. Paramagnetic oxygen sensor



4. Breathing circuit 1



2. Expanded safety package



5. Drug nebuliser



3. Cart



6. Nasal CPAP cannulae



7. Respiratory gas humidifier Aircon



ACCESSORIES

DISPOSABLE ABSORBER

High CO₂ absorption

Leonsorb plus shows highly efficient absorption capacity in low-flow and minimal-flow anaesthesia. Test results have confirmed that the product, with a volume of 1.15 kg, absorbs over 150 litres of CO₂ before a 0.5% CO₂ breakthrough occurs. This property ultimately results in cost savings benefits associated with higher absorption.

The chemical composition of the soda lime used in Leonsorb plus guarantees a high level of CO₂ absorption. A moisture content of approx. 15.5% prevents the soda lime from drying out during operation.



LEONSORB PLUS

- Unique geometry: effective shape for CO₂ absorption
- Reduced response time generates high absorption rates
- Optimum soda lime utilisation
- Minimal dust
- Cost savings due to high absorption capacity and large absorber volume

LEONSORB PREMIUM

- Compatible with low and minimal flow
- Does not generate Compound A
- Unique geometry: effective shape for CO₂ absorption
- Optimum soda lime utilisation
- Minimal dust
- Cost savings due to high absorption capacity and large absorber volume
- Longer lasting colour change than with conventional soda lime



ACCESSORIES

LIGHTING SYSTEMS

VISIANO 20-2

Uncompromising lighting is essential wherever there are high demands for visibility. Whether in family medicine or dermatology, ENT or gynaecology or in particularly sensitive wards such as NICUs or intensive care, VISIANO 20-2 is a true all-rounder. Thanks to its unique design, state-of-the-art lighting technology and the highest lighting quality, it provides optimal examination conditions.

- LED technology
- High illuminance 60,000 lx/0.5 m, light field diameter 210 mm
- Precise colour rendering Ra >95, R9 >90
- 4-step illuminance dimming
- Antimicrobial hygiene function in key parts of the luminaire
- Maximum action radius (360° rotation of the head)



VISIANO 10-1

VISIANO 10-1 is an LED examination light that doesn't sacrifice any professional light quality. In daily use, VISIANO 10-1 stands out for its excellent illuminance and large field of light. The sturdy flexible arm ensures reliable positioning and a long service life. The closed design prevents contamination.

- LED technology
- High illuminance 50,000 lx/0.5 m, light field diameter 180 mm
- Precise colour rendering Ra >93
- Colour temperature 4400 K
- Professional light quality thanks to unique diamond optics and premium LEDs
- Lamp head can be rotated 280° with handle
- High-quality aluminium rods and durable friction joints



HX LED

The small and sturdy examination light HX LED is ideally suited for intensive care units, patient rooms and medical practices. The light meets all important criteria for safe and precise examinations and is particularly cost-effective thanks to LED technology.

- LED technology
- 15,000 lx / 0.5 m, light field diameter 300 mm
- Precise colour rendering Ra >95
- Colour temperature 4000 K
- Rocker switch (1/0) on the luminaire head
- Spring-mounted joint system or flexible arm
- Low heat emission of light
- Designed to match various mounting elements or roll stands



UNIFLEX

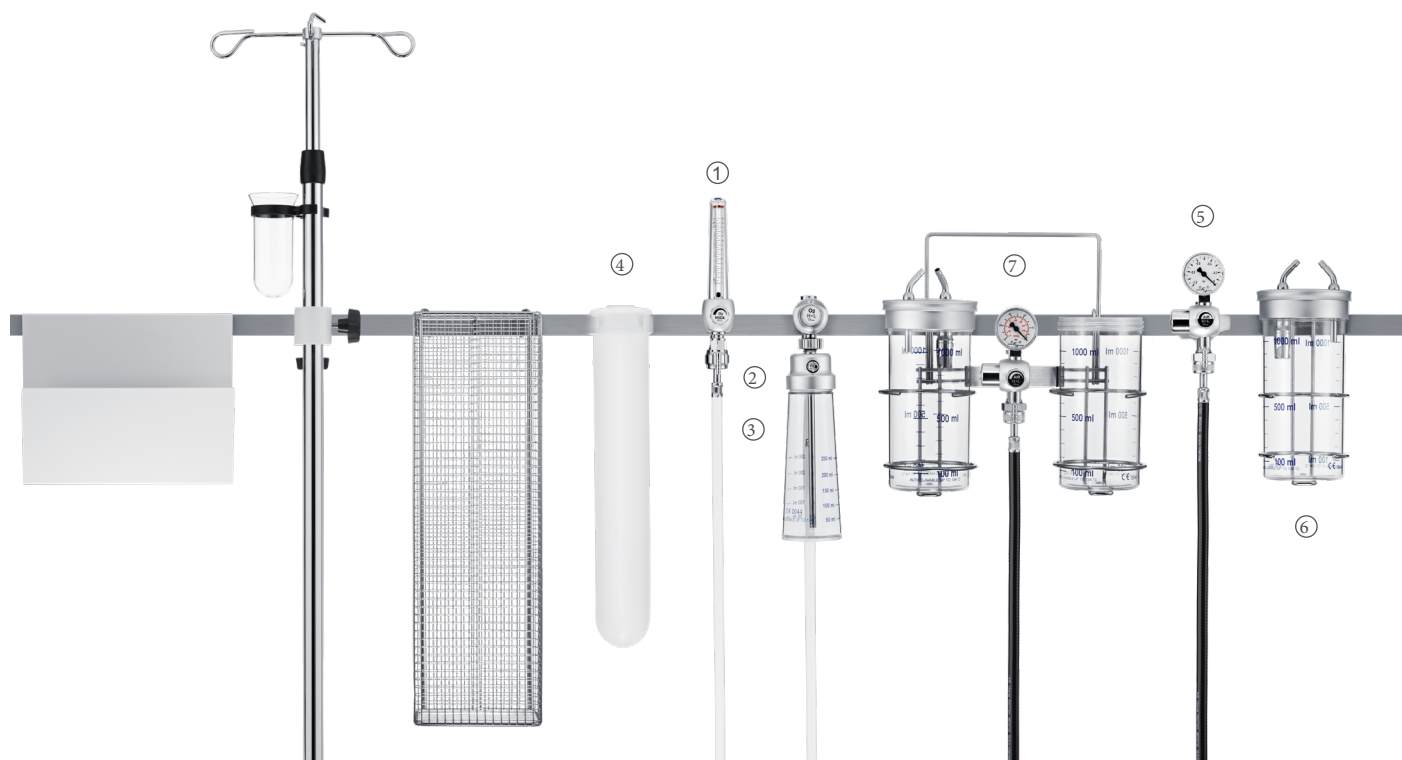
UNIFLEX rail system

The Uniflex rail system by Löwenstein Medical is an innovative, high-quality concept for all clinical application areas. The modular design of the Uniflex system enables maximum flexibility and a wide range of combination options. It is considered an indispensable standard in modern healthcare facilities, hospitals, clinics, nursing homes and medical practices.

Uniflex stands out for its full ground clearance as well as major utility, since all equipment needed for patient treatment is arranged at a convenient height and within easy reach. The wall space is optimally used for storing equipment and instruments.

Safe functionality and handling, optimal operation and use, versatile and flexible application. Humidification, suctioning, oxygen therapy oxygen-air blender, equipment support, and much more.

1. Flow meter
- 2./3. Bubble humidifier / aerosol humidifier
4. Catheter quiver
5. Compressed air injector
6. Secretion suction receptacle
7. Bronchial suction system





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Images may depict optional accessories that can be ordered separately.

