



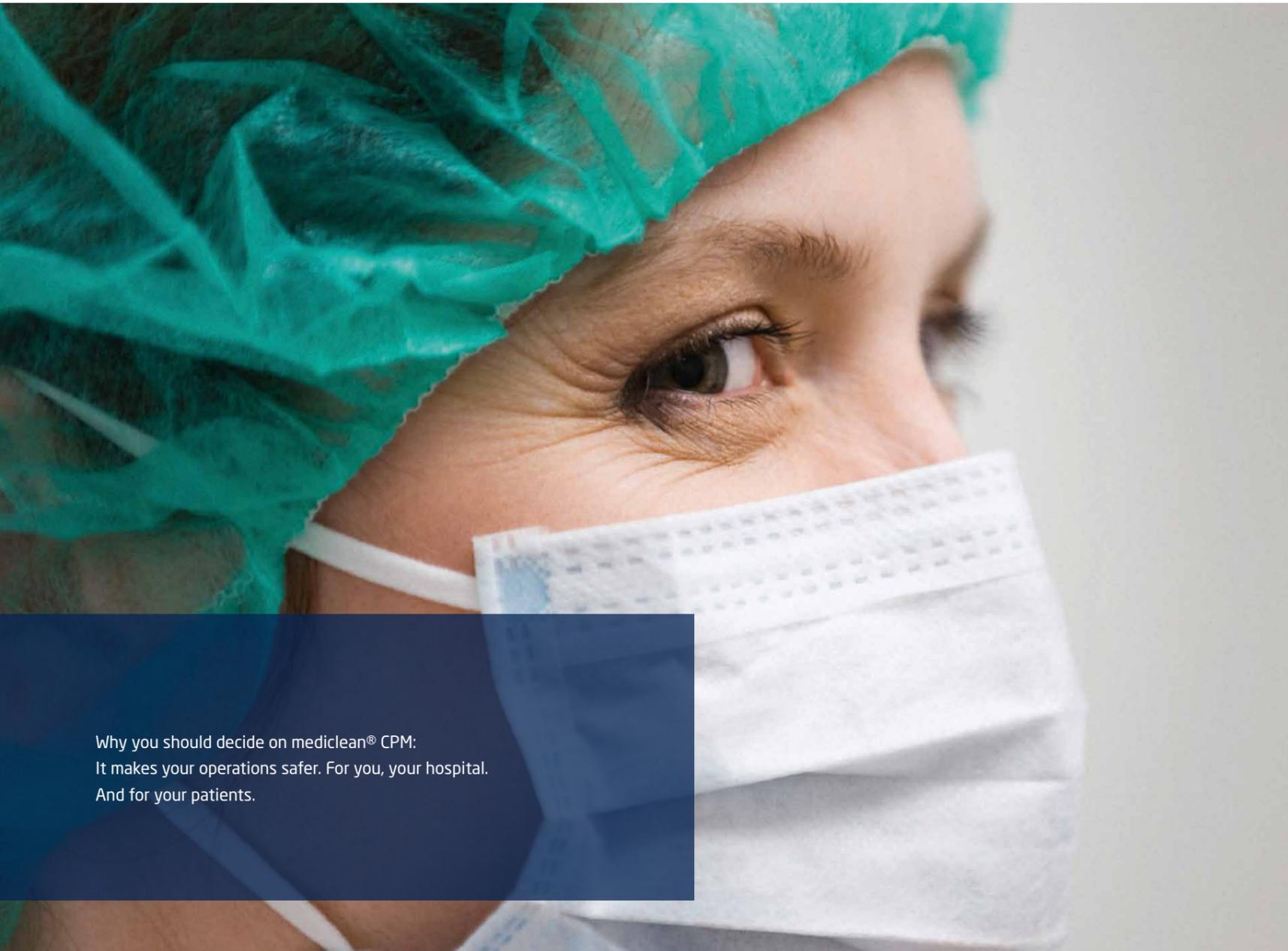
mediclean

The new mediclean® CPM.
Real-time air quality control.



Real-time air quality control: mediclean® Continuous Particle Monitoring (CPM) visualizes the particle and germ load.

In the past, the real-time measurement of the particle and germ count both during operations and the preparation of instruments was impossible. Since the development of mediclean® CPM, the number of particles and germs present in the air can be differentiated as a separate, independent variable, measured in real time and displayed either by an optical or acoustic signal.



Why you should decide on mediclean® CPM:
It makes your operations safer. For you, your hospital.
And for your patients.



Compresses are also a source of airborne particles.

Airborne particles and germs are invisible to the naked eye but not to mediclean® CPM.



Sedimentation plate with bacterial contamination caused by air.

Infection risks minimized by real-time particle and germ count measurement

Germ-free operating theatres are not only a quality objective of hospitals and legislators but also an understandable prime concern of patients. Both improved hygienic measures and laminar flow systems are employed in operating theatres to prevent particles that may be carriers of germs from entering the protected zone. In the past, the amount of particles present in the air was invisible to the naked eye as the systems are measured „at rest“, i.e. without staff or patients. With mediclean® CPM by Weiss Klimatechnik things have changed because contrary to conventional laminar flow systems, mediclean® CPM permanently measures the particle pollution in the critical zone. Should the particle pollution increase, a traffic light system warns the operating team accordingly. If the air quality is OK, the OP team is given the green light.

Innovative. Safe. Dynamic.

Real-time clean air monitoring is not the only innovative feature. Weiss Klimatechnik has taken another crucial step - when the number of particles and germs present in the air increases, mediclean® CPM automatically increases the clean air flow until the values have dropped again into the green range. This means that you have a fully automatic control of the air quality.

The legislator insists on a prevention of nosocomial infections. According to § 23 of the Infectious Diseases Protection Act, measures must be taken that comply with the current medical scientific standards to prevent nosocomial infections. Furthermore, the directors of hospitals and facilities for out-patient surgery must ensure that appropriate conclusions are drawn with regard to the required preventive measures. Patients too are becoming more aware of this issue thanks to the Patient's Rights Act.

Mediclean® CPM helps you to optimally prevent infections caused by polluted particles.



Operating panel for displaying e.g. air quantities, particle and bacterial counts.

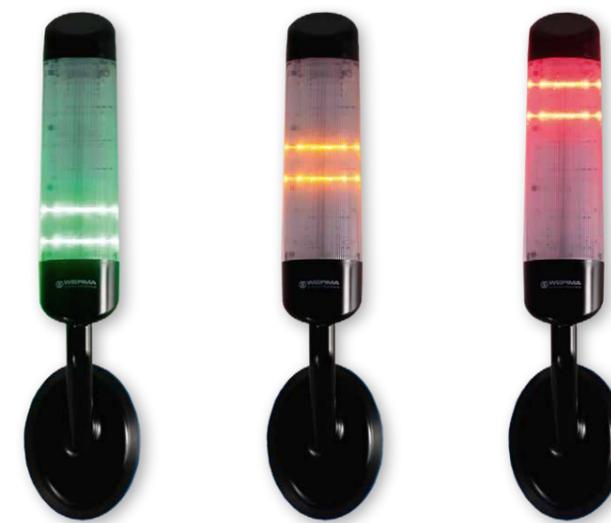


Rely on Continuous Particle Monitoring in your operating theatre: mediclean® CPM measures, registers and adapts automatically the clean air flow to your situational circumstances.

Give the green light for the future. Use mediclean® CPM today and you are well equipped for the future.

Those who want the best for their patients and operating theatre staff should not settle for anything less than the best. mediclean® CPM minimizes the risk of infection caused by polluted particles, maximizes safety at work and offers numerous additional optimization solutions:

- **Improve work processes:**
The hygienic behaviour of the operating theatre staff and ideal structural parameters have a positive effect on the purity of the air. Their continuous visualization can sustainably improve work processes.
- **"Sterile chain":**
Operating theatre instruments are sterile medical products that are used in compliance with the Law on Medical Products. By monitoring and automatically optimizing the air quality, instruments have maximum protection from sterilization right to the wound.
- **Safety at work:**
Surgical flue gases emitted during surgical treatment are hazardous to health, especially for the operating theatre staff. These gas particles are recorded via the online particle monitoring system and removed as quickly as possible from the protected zone.
- **Energy-saving potential:**
If everything is in the green range, the system adjusts its performance accordingly. Should you switch off the system completely outside the normal operating hours, surgery and the preparation of instruments may commence again when the CPM turns on the "green light".
- **Flexibility:**
The desired values for the number of particles or germs present in the air can be defined manually.
- **Quality assurance:**
The number of particles and germs present in the air can be measured for every operation.



The mediclean® CPM hygiene signals based on the familiar traffic lights: The green/yellow/red system signals at all times whether the number of particles and germs present in the air are within the defined range.

If you are still waiting
for the green light -
Test mediclean® CPM
and convince yourself.

Visit us ...

If you wish to see a mediclean® CPM combined with a laminar flow system, just visit our showroom. We will gladly demonstrate how mediclean® CPM reacts to increased particle pollution in the air and how it automatically regulates the air quality until it reaches the desired level.



mediclean® CPM
protects the patient and the operating team by:

- regulating the amount of particles and germs during the operation
- regulating the amount of particles and germs during the preparation of instruments
- systematic removal of pollutants

weisstechnik

Test it. Heat it. Cool it.

Our solutions are deployed around the world in research, development, production and quality assurance of numerous products. Our experts from 21 companies are at your service in 14 countries, ready to provide support to ensure high operational reliability of your systems.

Weiss Umwelttechnik is one of the most innovative and significant manufacturers of environmental simulation systems. With these testing systems, we can simulate all climatic conditions around the globe and beyond, under accelerated conditions. Whether temperature, climate, corrosion, dust or combined shock testing: we have the proper solution. We supply systems in all sizes, from standard versions up to customised, process-integrated facilities - for high reproducibility and precise test results.

Vötsch Industrietechnik, a subsidiary of Weiss Umwelttechnik, offers a wide product portfolio in the field of heating technology. With an experienced team of engineers and designers, we develop, plan and produce high-quality and reliable heating technology systems for virtually any field of application. Products include heating/drying ovens, clean room drying ovens, hot-air sterilisers, microwave systems and industrial ovens. The portfolio reaches from technologically sophisticated standard versions to customised solutions for individual production operations.

A further Weiss Technik company, Weiss Klimatechnik, also offers reliable climate solutions wherever people and machinery are challenged: in industrial production processes, hospitals, mobile operating tents or in the area of IT and telecommunications technology. As one of the leading providers of professional clean room and climate solutions, we deliver effective and energy-saving solutions. Our experts will guide you from the planning to the implementation of your projects.

Weiss Pharmatechnik, a subsidiary of Weiss Klimatechnik, is a competent provider of sophisticated clean room and containment solutions. The product range includes barrier systems, laminar flow facilities, security workbenches, isolators and double door systems. The company emerged from Weiss GWE and BDK Luft- und Reinraumtechnik and has decade-long experience in clean room technology.

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