

Field of Operation

More sophisticated requirements in modern day-day surgery call for safe and effective air supply systems.

The protection zone of a state of the art ceiling system should protect the patient, the surgical staff as well as the instruments from aerial transferred germs. Instruments and implant systems often need additional space located outside of the protection zone. InstrumentAir® is the solution to create an additional and reliable protection zone!



The mobile InstrumentAir® laminar airflow system is used in operating rooms. The efficient design allows InstrumentAir® to be combined with all common instrument tables. InstrumentAir creates a sterile, stable, directed and horizontal air flow on the instrument table.



The low turbulent displacement airflow keeps away the aerial transferred bacteria from the work area. Due to the compact design the unit is ideal for use in OR's, incision rooms and out patient practices.



„New surgical methods as well as performance and cost pressure lead to ever higher demands on the surgical team. Complying with the latest necessary hygiene and quality standards is today's challenge. Our engineering provides fundamental steps to achieve these standards. Aerial transferred bacteria in OR's cannot be seen! Our goal is to eliminate this source of infections!“

Managing Director Ing. Roman Czech



InstrumentAir®
Mobile Laminar Airflow System



Cleanroom Technology Austria

Cleanroom Technology Austria GmbH
IZ-NÖ-Süd, Strasse 10, Objekt 60
A-2355 Wr. Neudorf

Tel. +43 (0)2236 320053-0
Fax +43 (0)2236 320053 -11
Email office@cta.at
Web www.cta.at

Your Specialist for Clean Air!



Cleanroom Technology Austria

InstrumentAir®

More sophisticated requirements in modern-day surgery demand innovative and safe solutions. A modern and efficient sterile air supply is a prerequisite to minimise the risk of surgical site infections.

Increase your protection zone in the OR!



Stable, low turbulent, displacement airflow prevents the infiltration of aerial transferred bacteria into the wound area.

Conclusion:

„The size of the protection zones in several OR's today are too small. Instruments and implants on which aerial transferred bacteria can sediment are often outside the protecting, sterile, low turbulence displacement air flow of the ceiling units. InstrumentAir® is the ideal mobile device to create an additional protection zone in the OR.“

Quote: Priv.-Doz. Dr. med. Florian Daxböck

Risk of Infection Significantly Reduced

- Safe protection zone through InstrumentAir's® low turbulent, horizontal directional and sterile air flow.
- Innovative and flexible filter system through application of newest technical expertise as well as modern and topquality materials.

Guaranteed Protection Zone

- The compact construction and it's effective simple functionality enables a safe protection zone in the field of work.

Cost Effective „Upgrade“

- The mobile InstrumentAir® is easily positioned and set up in any OR by one person.
- InstrumentAir® is an ideal complement to existing ceiling systems as well as an effective stand alone alternative in out-patient OR's.

Mobile and Flexible

- The independent applicability of the InstrumentAir® allows it to be set anywhere around the OR table. Quick and easy repositioning is also possible.

Reduction of Bacteria in the OR Area

- Continuous removal of bacteria from the floor around the operating area through the innovative air flow system.

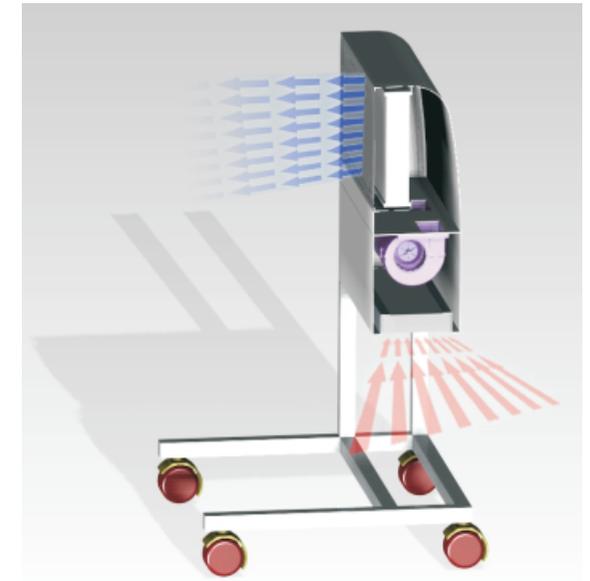
Easy Operation

- The self explaining menu navigation on the keypad or touchscreen enables a safe and easy handling.



Mode of Operation

The system extracts air at ground level (where most of the germs emitted by the surgical staff are found). The air is treated with a high efficiency pre-filter followed by a H14 HEPA filter. The sterile air is delivered through a laminarisor guaranteeing a stable, low turbulent, horizontal and directed airflow. The effective design of the InstrumentAir allows it to be used with all common instrument tables.



Technical Specifications

Casing:	Powder coated – stainless steel
Connection:	230VAC/50Hz/40W (at operating point)
Output:	variably adjustable 0-100%
Dimensions:	WxHxD 79x120x70 cm
Airflow capacity:	450m ³ /h
Filter:	Prefilter G4, HEPA filter H14 with aluminium frame and contact protection
Weight:	49Kg

The unit complies with the ÖNORM H6020; SWKI 99-3; DIN 1946-4; HTM 03-01