

ACU

Air Cleaning Units



NEW

TONTARRA



In 2009 these Air Cleaning Units were successfully used in hospitals treating patients with swine flu, proving it's efficiency by ceasing infections inside of the hospital.

For sars-cov-2/corona virus response they are being used to reduce airborne levels in leading hospitals in the UK e.g. in isolation rooms, ward nursing station areas as well as A&E intubation /resuscitation areas.

Additionally to the elimination of infectious air, it has an instant effect on staff morale which is vitally important, especially as so many of the PPE masks failing leak testing (in one case over 50%).



INTENSIVE
CARE



OPERATING
ROOM



ACCIDENT
EMERGENCY



GENERAL
WARD



ONCOLOGY
RADIOLOGY



RESIDENTIAL
CARE



EDUCATION
SCHOOLS



WORK
PLACE



AIRPORT
SECURITY



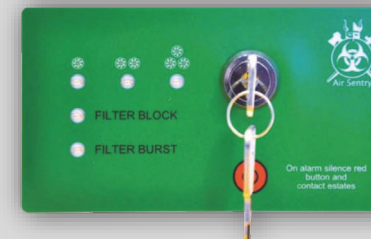
SCIENTIFIC
RESEARCH

FEATURES

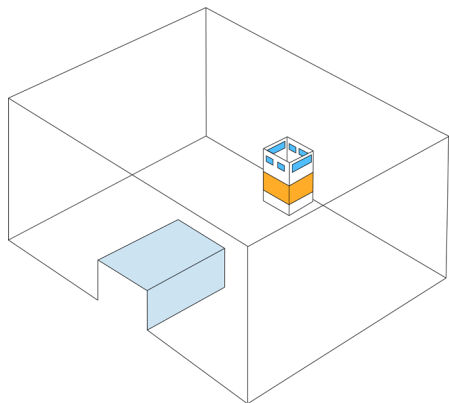
ACU



- ▶ Fast Functionality
- ▶ Exceptional air bio-security, particularly around aerosol generating medical interventions such as CPAP and CPR
- ▶ Combined with PPE and good infection control, staff risk reduces to near zero
- ▶ Protection from secondary infections such as aspergillus
- ▶ Robust 24/7 operation
- ▶ Ease of maintenance
- ▶ Low purchase costs over traditional approaches
- ▶ Significant savings on operational costs
- ▶ It is also able to supplement existing installations without compromising their operation

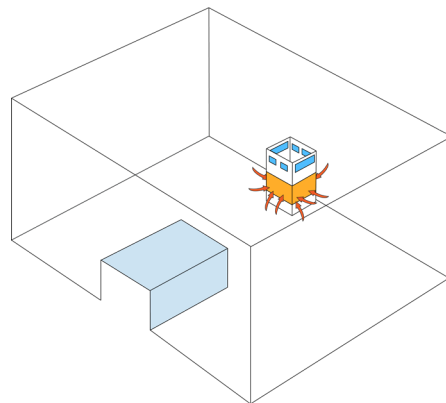


- ▶ Offering fully monitored Alarms
- ▶ Simple user interface
- ▶ Key locking to ensure authorized use

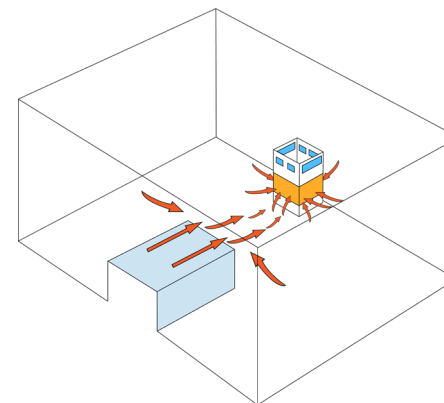


Based on zero pressure room data using computational fluid dynamics, the image depicts flow in an ICU room area.

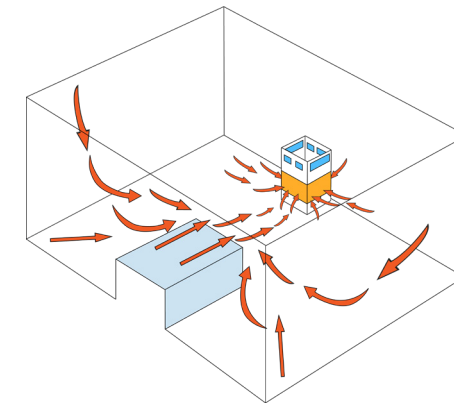
ACU is able to be placed on any wall position away from the patient area.



The system draws 'dirty' air at the low level, towards the unique filtration system.



Air is drawn from across the patient area, downwards away from ceilings, equipment and staff.



This slow moving flow 'pulls' air from the entire room, including corner areas, which are a problem area for existing approaches.

The system can work on its own or be used alongside any existing system to enhance bio security.

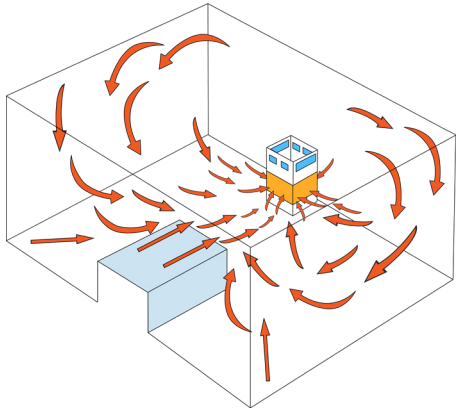
The fixed version can also be used successfully supplements an older, non compliant OR, which has exceeded air quality requirements.



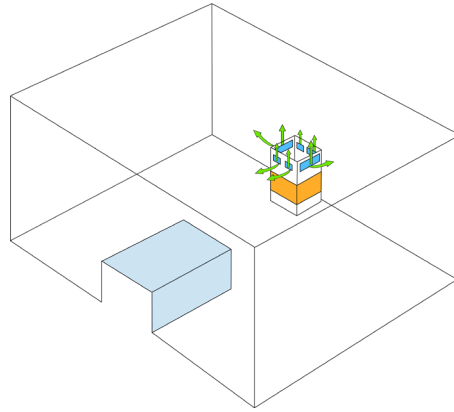
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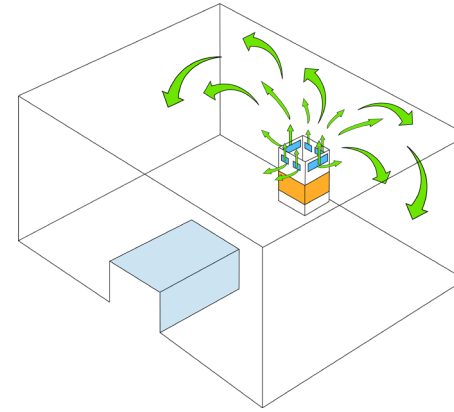
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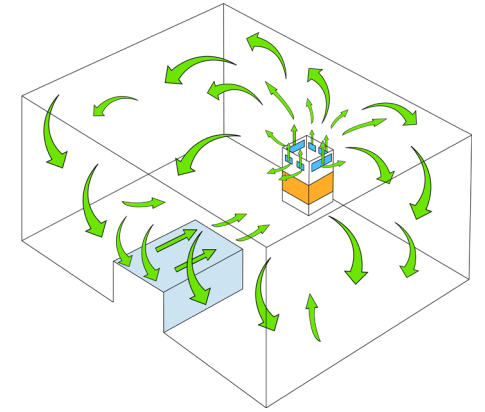
This slow moving flow occurs for the entire room, including corners. Surface depositing is significantly reduced.



Ultra Clean Air, near sterile, exits the system and rotates upwards to form a return path.



This pushes ultra clean air over the patient area from a high level, creating an extreme level of mixing and air dilution.



This completes the cycle, which is continuous.

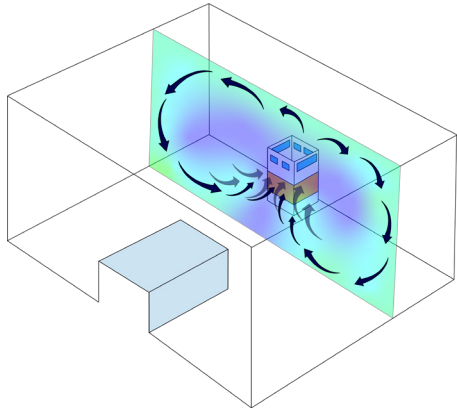
The unique rotational flow from **ACU** combines the cartridge filtration system and results in an ICU room achieving Ultra Clean status within 10 minutes and this being maintained within 30 minutes of running, 24/7.



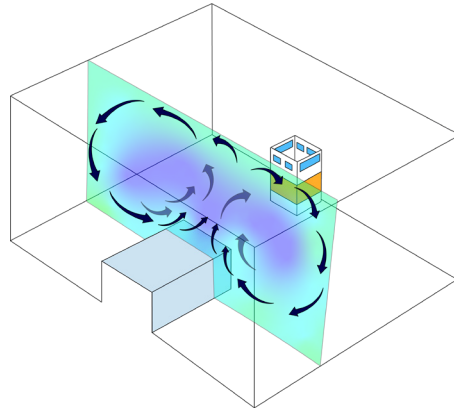
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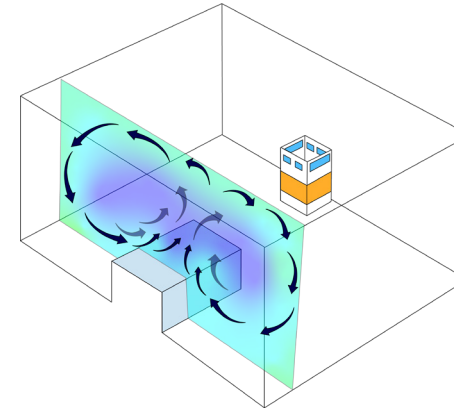
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The rotational flow forms a rotational motion, within the slow moving whole room air system.



This creates a significant level of mixing within the room environment.



Dilution is the rationale behind all health care room ventilation systems. The unique design of **ACU** exceeds actual air change requirements whilst achieving a level of dilution many times greater.

In an ICU room the dilution effect is equivalent to around 80 air changes an hour, without the noise or wind that would be required to achieve that conventionally.

ACU can also be supplied as a fixed system, can offer a positive or negative pressure module, can adapt to accept temperature managed air from existing systems and can be used without affecting any existing hospital ventilation system.

In areas where open windows exist, it can significantly reduce the risk of airborne infections such as Aspergillus. It has also been tested against MRSA & C. Diff.

The system will maintain an ultra clean air environment for Sars-Cov-2.



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Price examples:

6920 € gross price, (excl. VAT), distribution discounts apply
ACU wall system with simplified electronics, EN14644 tested filtration, average filter life 24 months
*registration in EU and UK, other markets on request

9823 € gross price, (excl. VAT), distribution discounts apply
ACU mobile system with simplified electronics, convertible to wall mounting, average filter life 24 months
* registration in EU and UK, other markets on request

Interested in distribution of these devices?



Contact us for more detailed information:

sales@tontarra.de

F.A.Q.



manufactured by



- ▶ **What is the filter life?**
In normal use 24 months
- ▶ **How much power does it use?**
Around 100W, similar to a light bulb
- ▶ **How often should it be serviced?**
Annually recommended
- ▶ **What voltage can it run on?**
230V / 110V
- ▶ **Will it comply with EN14644 part 3 and what is it about?**
Yes >> Highest grade filtration test for HEPA based filters
- ▶ **Will it remove sars-cov-2?**
Yes, the system removes all pathogens
- ▶ **Is it CE marked?**
Yes, each unit is bespoke and CE certificated
- ▶ **What is the delivery time?**
Presently 6 weeks from order
- ▶ **How long is the warranty?**
Manufacturer warranty 12 months
- ▶ **Is it easy to use?**
It just needs to be put into use, away from the patients bed, and be turned on