camfil

AIR CLEANERS FOR HOSPITALS

PROTECTING PATIENT HEALTH

TO CREATE POSITIVELY PRESSURISED ROOMS

The concept of creating positively pressurized rooms is to ensure that the air introduced to the room is clean and that any air that does escape will not affect other patients or staff.

HOW ARE POSITIVE PRESSURISED ROOMS CREATED

Introducing clean fresh air from outside sources into a room allows a positive pressure room to be created.

In hospitals the quality of air introduced into the room is not only important for the patients within the room but also for the doctors and nurses that work in the room.

Ensuring that both the external air introduced to the room and the air within the room are cleaned to the highest standard, is key to creating optimal positively pressurised environments.

BENEFITS OF USING CAMFIL AIR CLEANERS

- Patented Dual inlet filtration allows for the introduction of external air and the cleaning of internal air
- EN1822:2009 Certified HEPA filters ensure optimal performance
- Energy efficient fan reduces energy consumption
- Low Noise level ensures patients rest is not disturbed
- Timed controller allows system to be more active through busy hours
- Air Image intelligent sensor system

PROBLEMS SOLVED

Aspergillus prevention works, improved patient room conditions, upgrade in low immune patient environments.

SOLUTION 1

Internal Air Cleaner Configuration - Ducting the air intake to the external environment can allow for clean air to be introduced into the target room. This can be wall or ceiling mounted.

The Air Cleaners utilise HEPA filtration to ensure no unwanted contaminants can enter the room. Dual air intake can allow from additional roomside air cleaning.

SOLUTION 2

External Air Cleaner Configuration - By Ducting the clean air outlet into the target area, from an external room can ensure that the target area becomes positively pressurised with HEPA filtered clean air.

POSITIVELY PRESSURISED ROOMS

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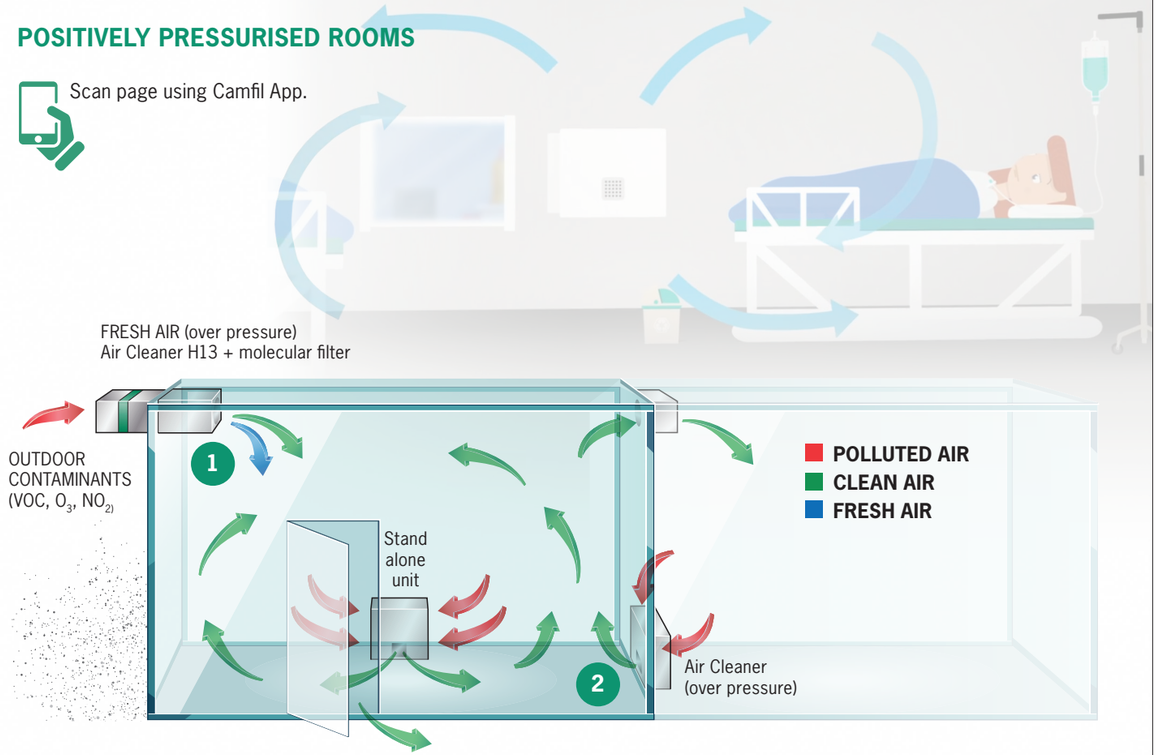

TO CREATE NEGATIVELY PRESSURISED ROOMS

In Hospitals, creating negatively pressurised rooms is a key requirement to protecting the health of hospital patients and staff or sterile equipment.

HOW ARE NEGATIVELY PRESSURISED ROOMS CREATED?

As the air in negative pressurised rooms is often hazardous to other patients the idea is take the contaminated air from the room, Clean it and distribute the clean air to non critical areas.

AREAS THAT REQUIRE THE ROOMS TO BE NEGATIVELY PRESSURISED INCLUDE:

- ER waiting rooms, radiology waiting rooms
- Triage, restrooms
- Airborne infection isolation (all) rooms
- Darkrooms, cytology, glass washing, histology, microbiology, nuclear medicine, pathology, and sterilizing, laboratories, autopsy rooms
- Soiled workrooms or holding rooms
- Soiled or decontamination room for central medical and surgical supply
- Soiled linen and trash chute rooms
- Janitors' closets

PROBLEMS SOLVED

Camfil Air Cleaners can easily upgrade hospital facilities to create negative pressurised rooms.

SOLUTION 1

External Room Configuration - Ensuring that Air Intakes are ducted into the targeted negative pressurized room environment and the Air outlet is positioned to release the air into an external environment can allow a Negative pressure environment to be created.

SOLUTION 2

Internal Room configuration - With the Air Cleaner positioned inside the room the Outlet should be ducted to a new environment to help create a negative pressure room.

NEGATIVELY PRESSURISED ROOMS

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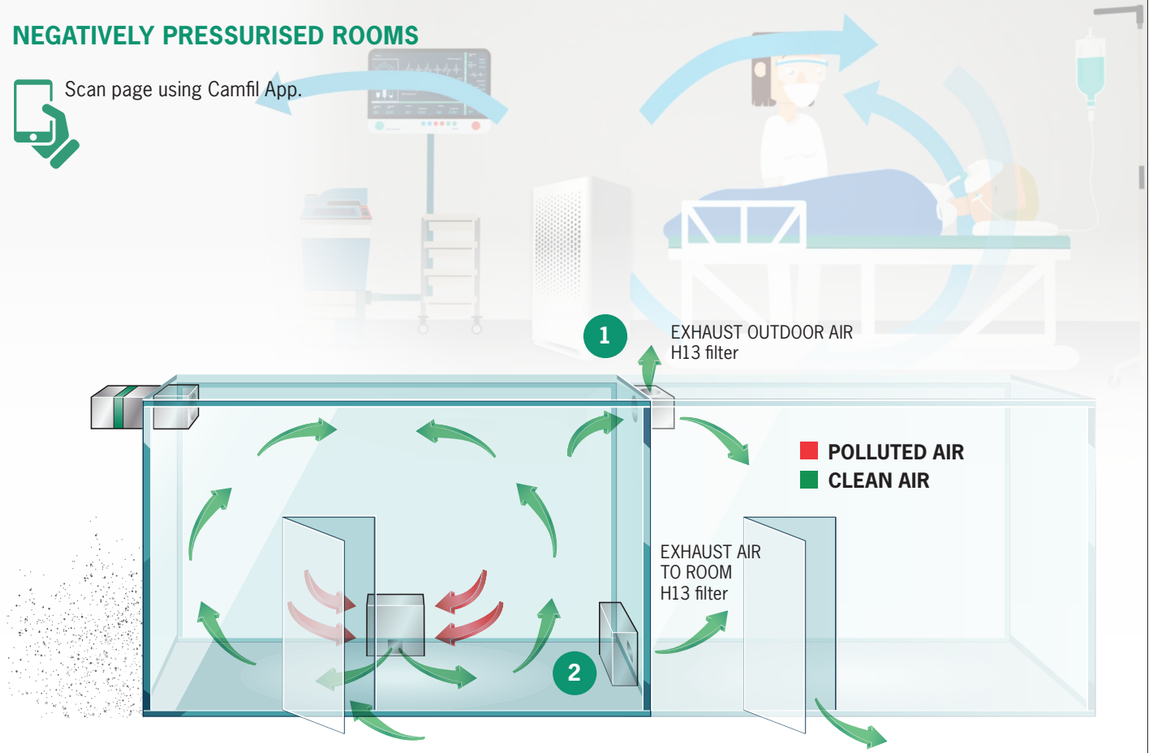

REMOVAL OF ODOURS AND GASES AND GENERAL AIR QUALITY IMPROVEMENT

In Hospitals there are many different odours and gases that can:

- affect patient and staff health
- slow down productivity and

ODOURS AND GASES THAT NEED TREATING IN HOSPITALS

- Formaldehyde used in Laboratory environments
- Formaldehyde used in Mortuary/Pathology labs
- Hydrogen Peroxide from Operating theatre cleaning processes
- Canteen odours
- Hematological areas.

REMOVING ODOURS AND GASES

In general HVAC applications the removal of odours and gasses is done through Molecular Filtration. Depending on the application different absorbents can be used to ensure an odour free environment.

BENEFITS OF CAMFIL AIR CLEANERS

- Some units come with preinstalled Molecular Filtration for low level odour removal
- A range of Molecular add-ons available to deal with different issues
- Mobile Unit allows movement between hospital areas
- Compact for easy storage
- Air Image intelligent sensor system

AIR IMAGE PARTICLE SENSOR

The AirImage is an intelligent sensor and online software system that Monitors and reports on the indoor air quality within your hospital environment.

This Unit is a plug and play unit that can be wall mounted or placed on any free standing environment to monitor the air quality within your specific area.

The Air Quality can be monitored securely through any desktop or mobile device.

Benefits to Hospitals:
The AirImage sensor and online platform can be linked wirelessly to your Air Cleaner Unit.

When Air Quality breaches a required level, the airimage informs the Air Cleaners to turn up the fan speed to improve the room conditions thus protecting patient health.

AIR CLEANER PRODUCTS

CC400 CONCEALED

The CC 400 concealed is the ideal solution for patient room upgrades. This unit can be integrated into room only ductwork or suspended into the ceiling.

Area: up to 70m²

Filtration Solution: A combination of Pre-Filter, Hepa Filter and Molecular Filtration choices.

CC400 HOSP

Designed by Hospitals for Hospitals. This Air Cleaner Unit is the optimised solution for Aspergillus prevention works.

Area: up to 70m²

Hospital Benefit: Integrated Timer and speed control to optimise performance.

CC800

Free Standing or wall mounted unit allows for air purification in many different environments.

Area: up to 100m²

Hospital Benefit: Two way filtration allows for fresh air intake and roomside air cleaning.

CC2000

The CC2000 unit comes with molecular attachments to deal with high level molecular problems.

Area: up to 300m²

Hospital Benefit: Molecular Filtration attachment helps speed up decontamination process when hydrogen peroxide is used.

CC1700/2500

Adaptable solution to adjust to different air quality problems. Any issues with particulate matter, VOCs, Formaldehyde can be solved easily.

Area: up to 500m²

Hospital Benefit: User access levels for security and operational integrity.

CE

TESTED ISO16890 ACCORDING TO

TESTED ISO10121 ACCORDING TO

CERTIFICATE EN 1822 INDIVIDUALLY CERTIFIED

Camfil – a global leader in air filters and clean air solutions

Camfil is a global leader in the air filtration industry with more than half a century of experience in developing and manufacturing sustainble clean air solutions that protect people, processes and the environment against harmful airborne particles, gases and emissions. These solutions are used globally to benefit human health, increase performance and reduce energy consumption in a wide range of air filtration applications. Our 28 manufacturing plants, six R&D sites, local sales offices and 4,000 employees provide service and support to our customers around the world. Camfil is headquartered in Stockholm, Sweden Group sales total close to SEK 7.2 billion per year.

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