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 optimally pressurized 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 pressurized with HEPA filtered clean air.
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 (aII) 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

Scan page using Camfil App.
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 gases 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 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.
Hospital Benefit: Integrated Timer and speed control to optimise performance.

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.

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.

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.

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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 sustainable 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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