

Air Conditioners (AHU **YC-H Series**) for **Surgical Rooms**

YORK®
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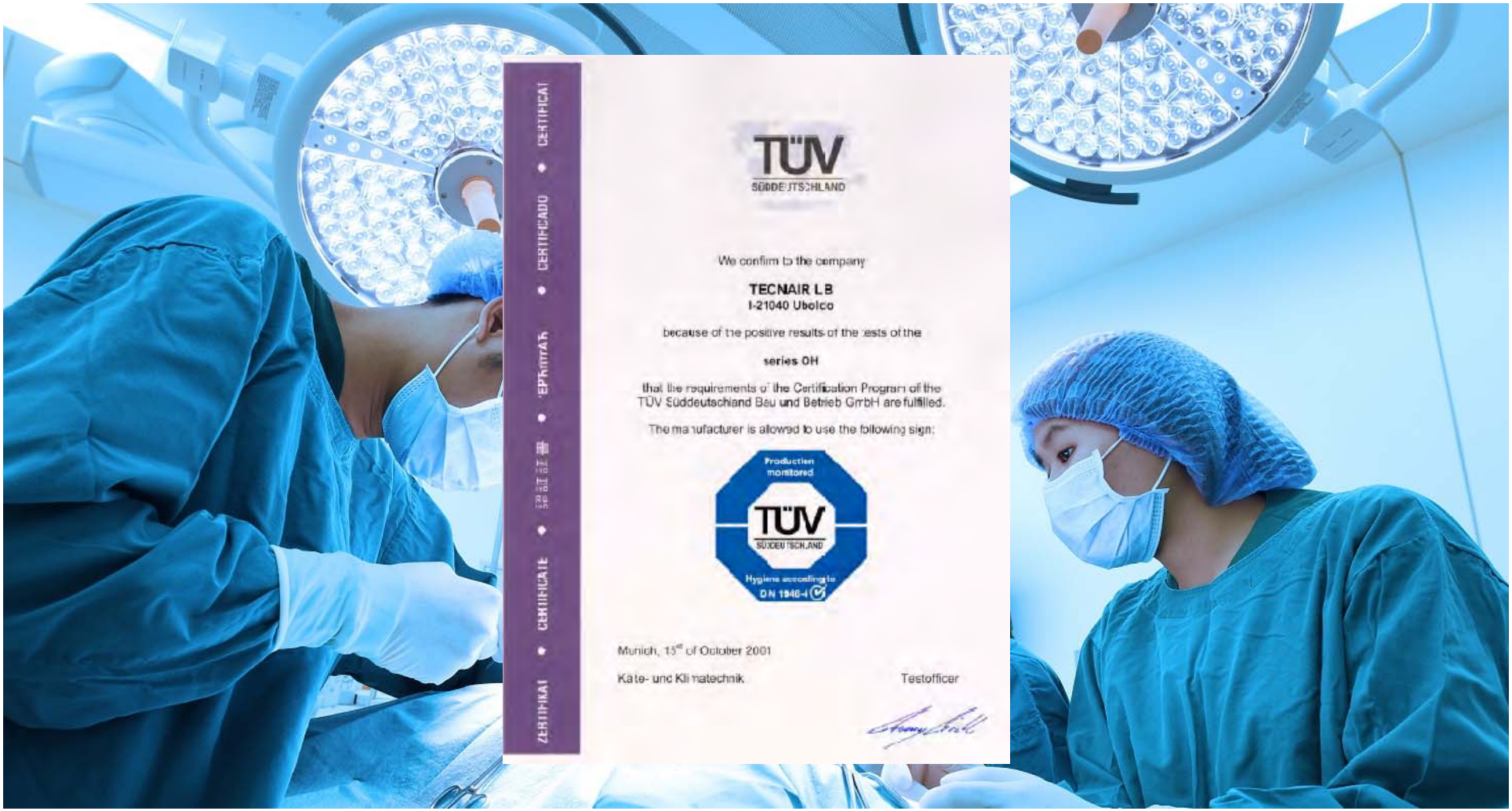
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Surgical Rooms Air Conditioning



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Surgical Rooms Air Conditioning



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Surgical Rooms Air Conditioning

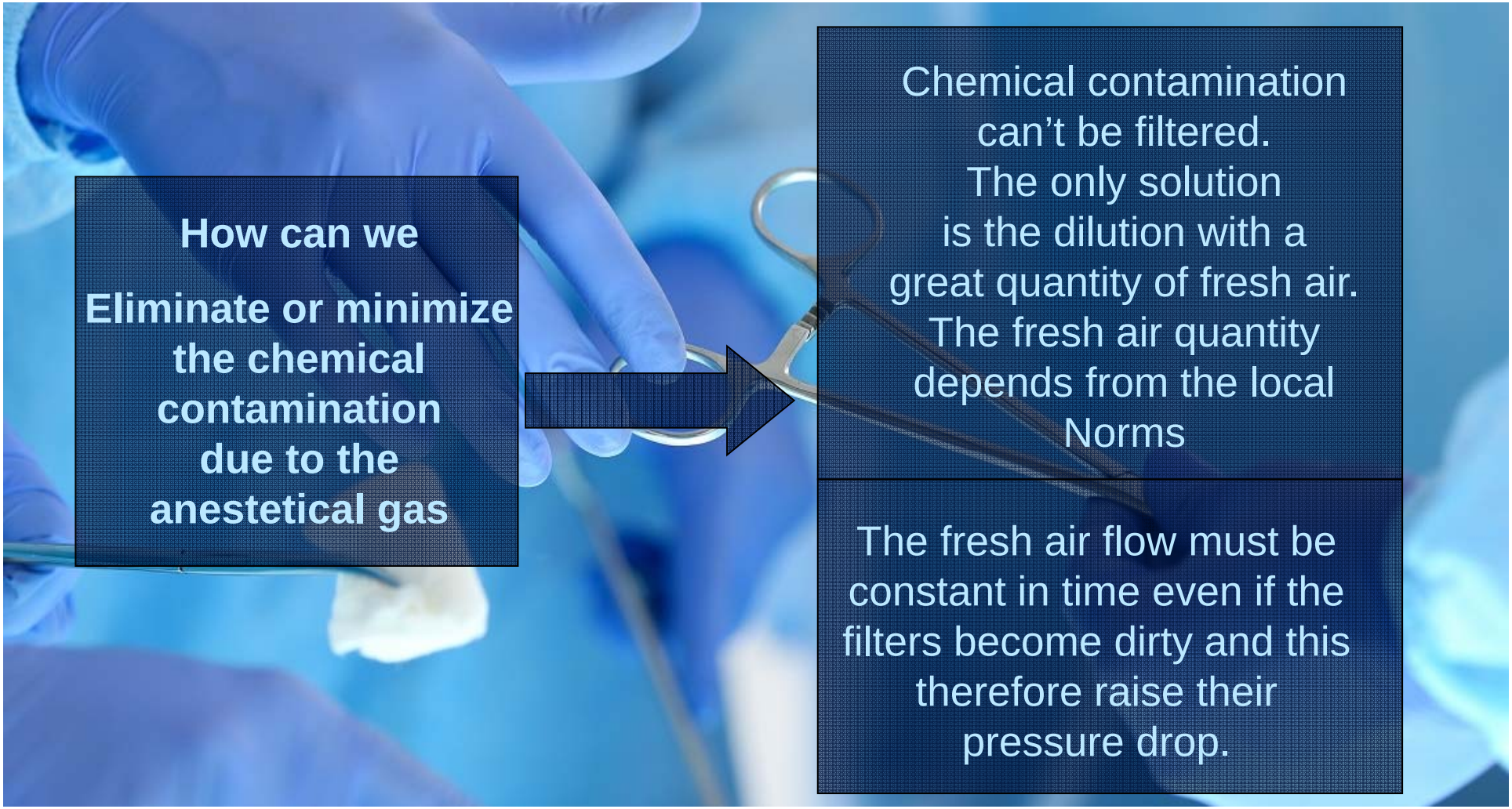


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YC-H Series - Surgical Rooms Air Conditioning



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YC-H Series - Surgical Rooms Air Conditioning



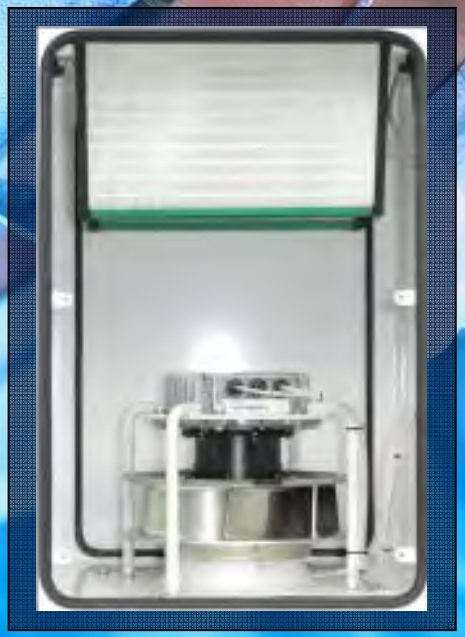
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STANDARD Electronically Commuted Plug Fan for energy saving

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Supply section with F9 filter

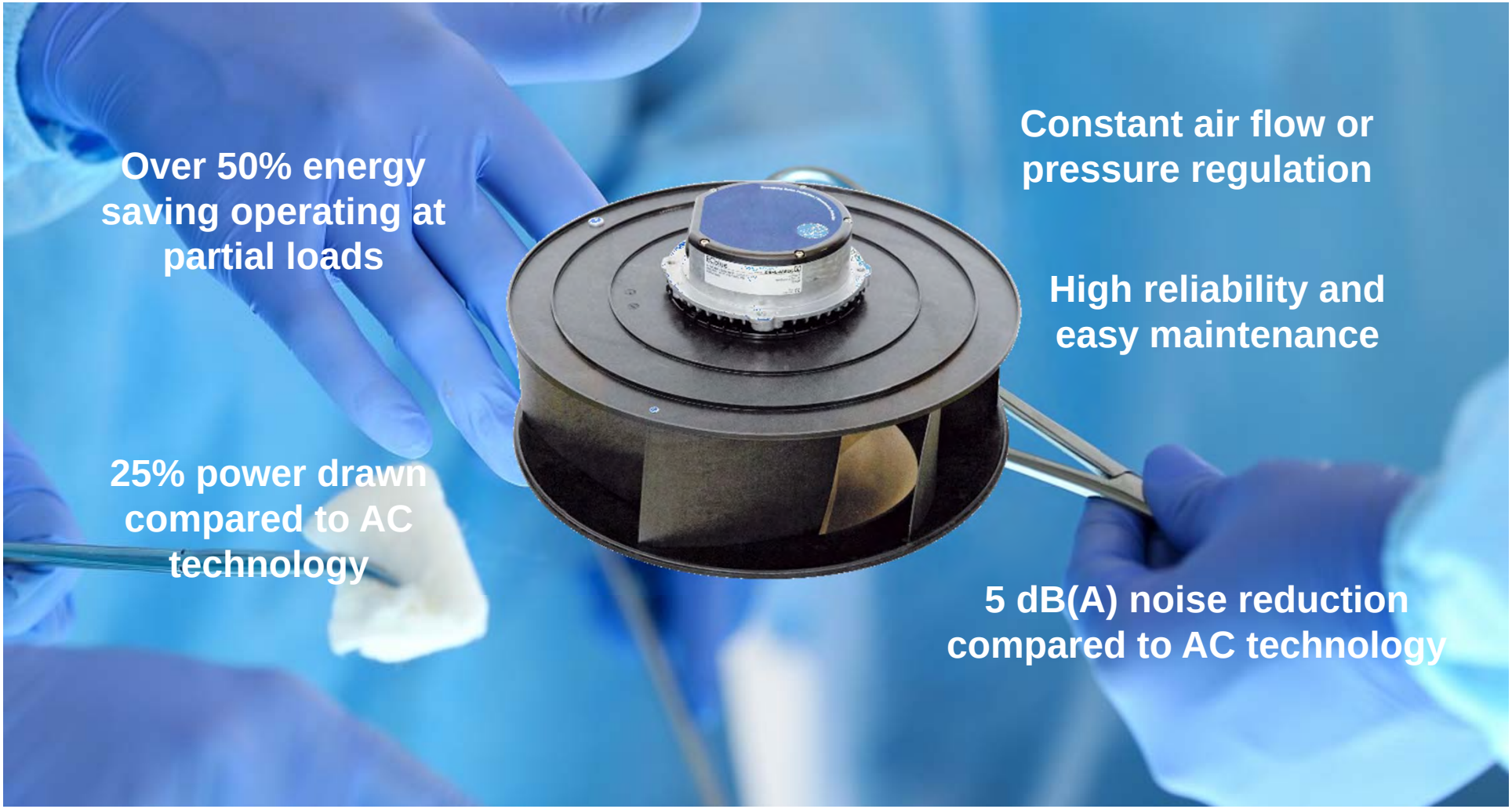
Constant air flow to the surgical room



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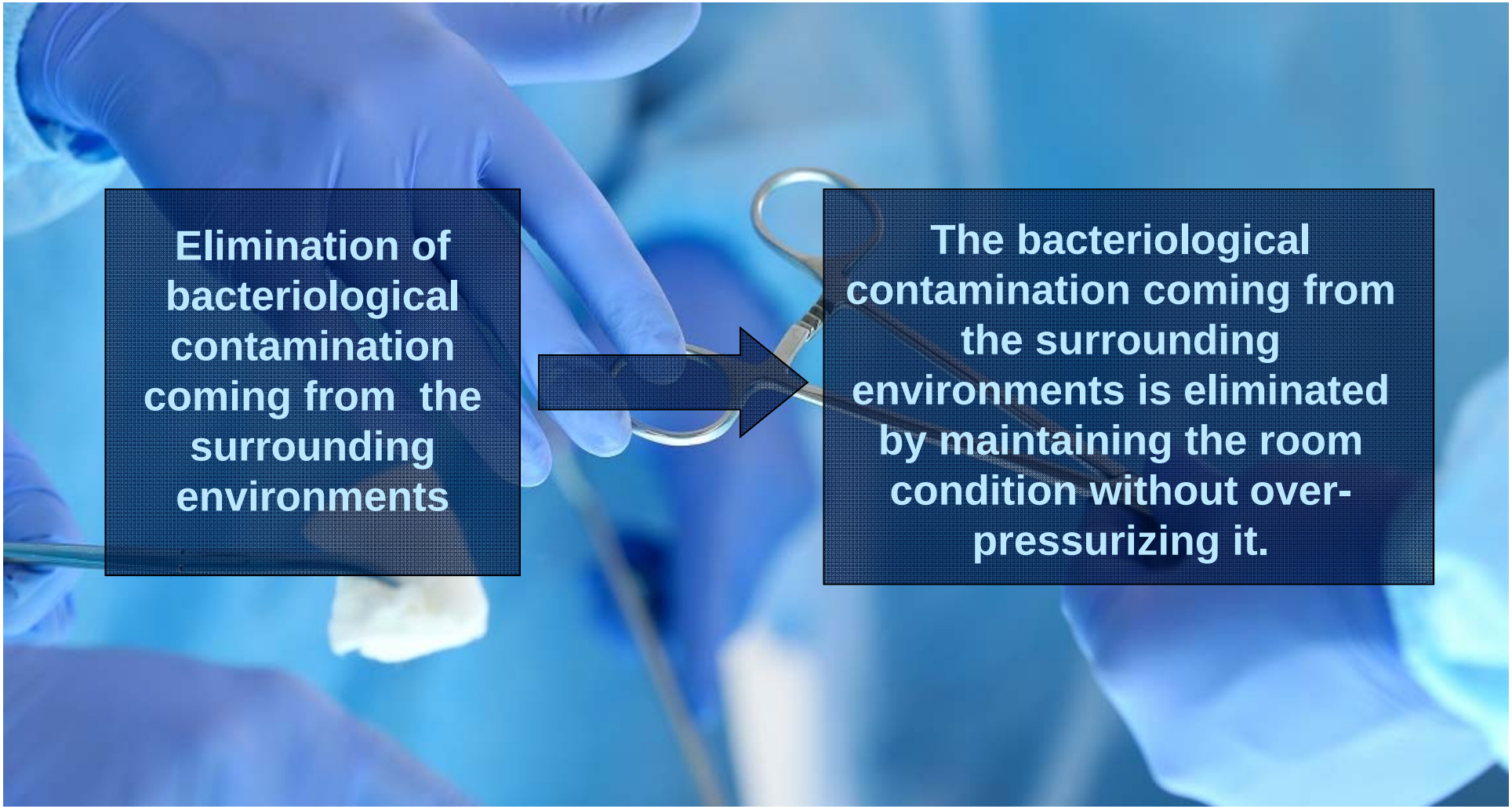
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EC FANS
New generation of electronic fans



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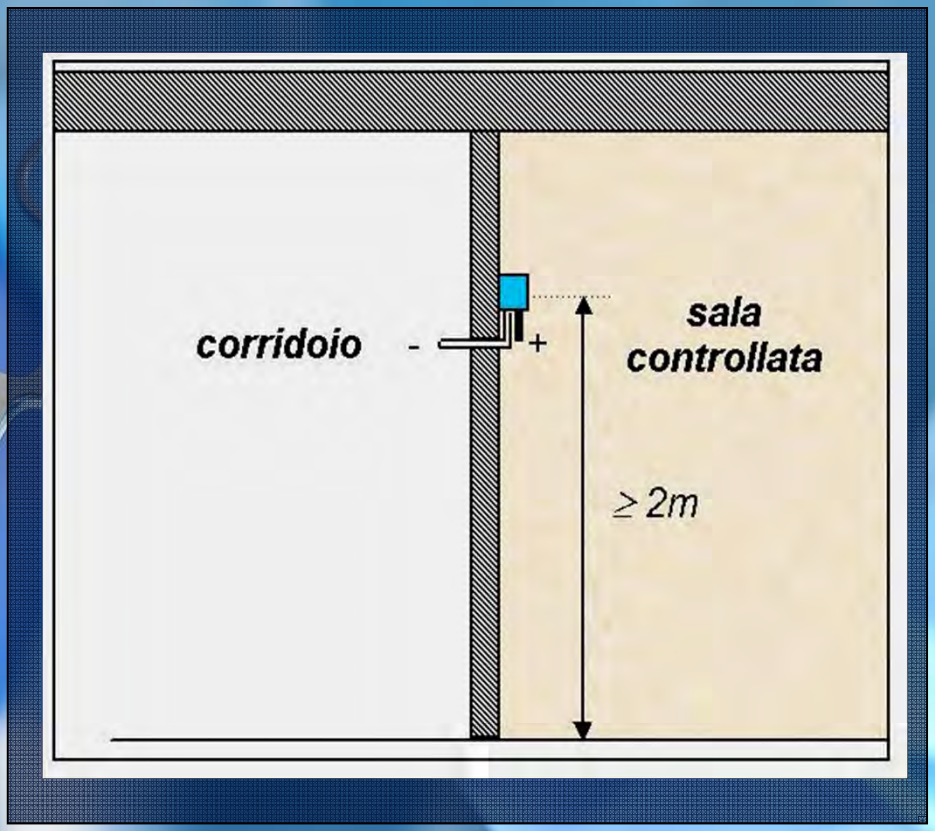
YC-H Series - Surgical Rooms Air Conditioning



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YC-H Series - Surgical Rooms Air Conditioning

Mounting within the room



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YC-H Series - Surgical Rooms Air Conditioning

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Direct expansion surgical room air conditioner

MODEL YC-OHU 3600

AIR FLOW:
3.600 m3/h

COOL. CAP. @ 40 kW



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YC-H Series - Surgical Rooms Air Conditioning

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Chilled water

surgical room air conditioner

MODEL

YC-OHU 6800 HR PC

AIR FLOW: 6.800 m3/h

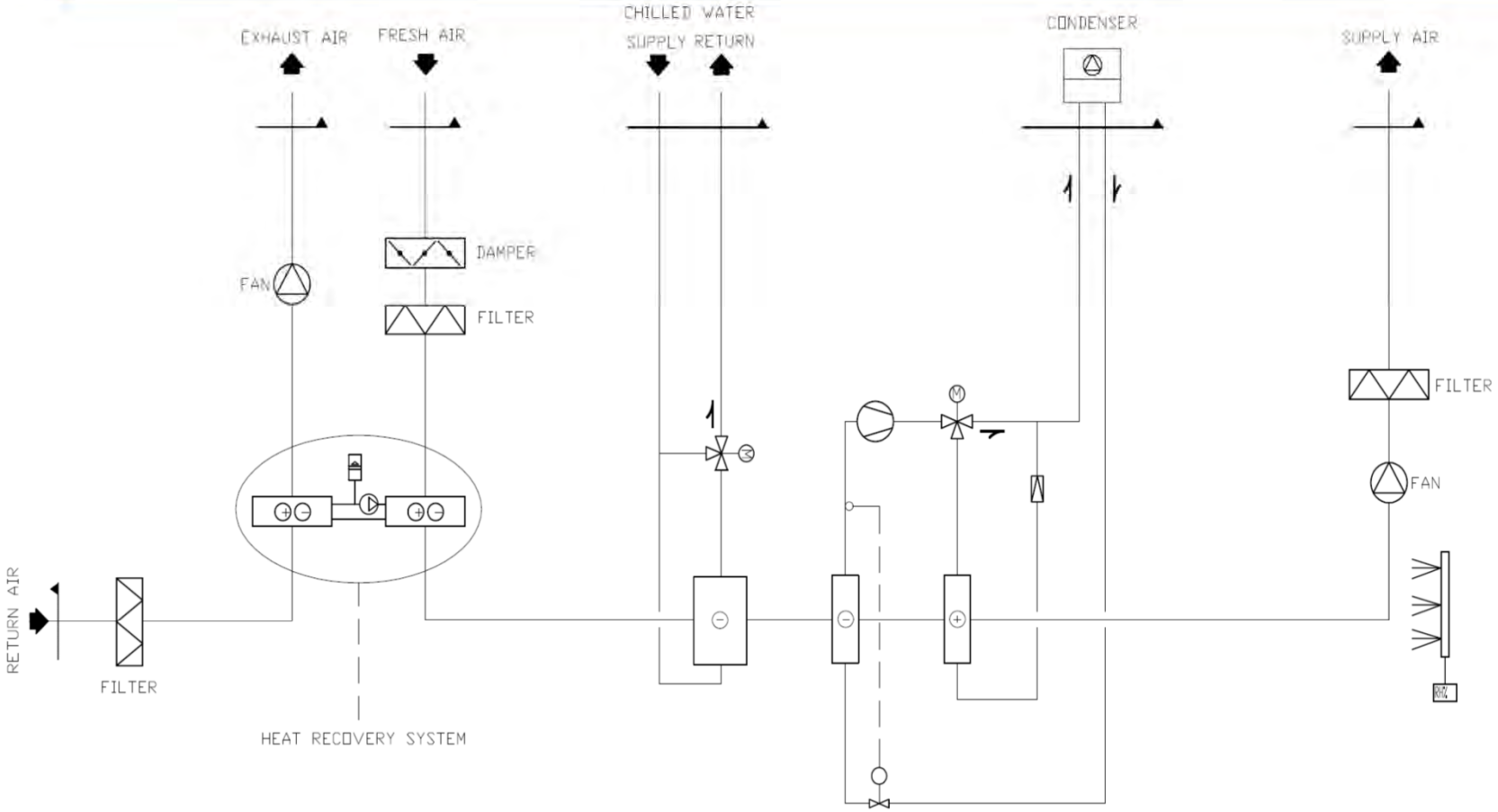
COOL. CAP. @ 60 kW



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YC-H Series - Surgical Rooms Air Conditioning



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YC-H Series - Surgical Rooms Air Conditioning

Double fan for supplying and expelling air for the maximum functionment security. (Accessory)



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YC-H Series - Surgical Rooms Air Conditioning

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Complete electrical pannel.





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YC-H Series - Surgical Rooms Air Conditioning

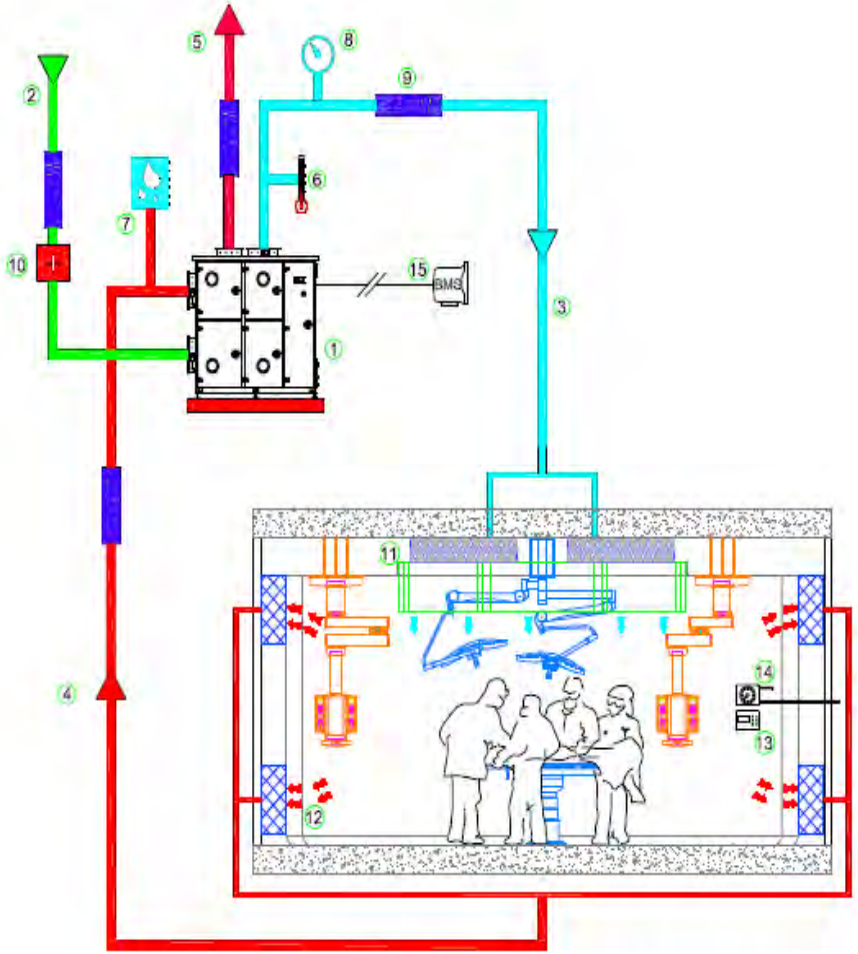
Right hand side technical compartment





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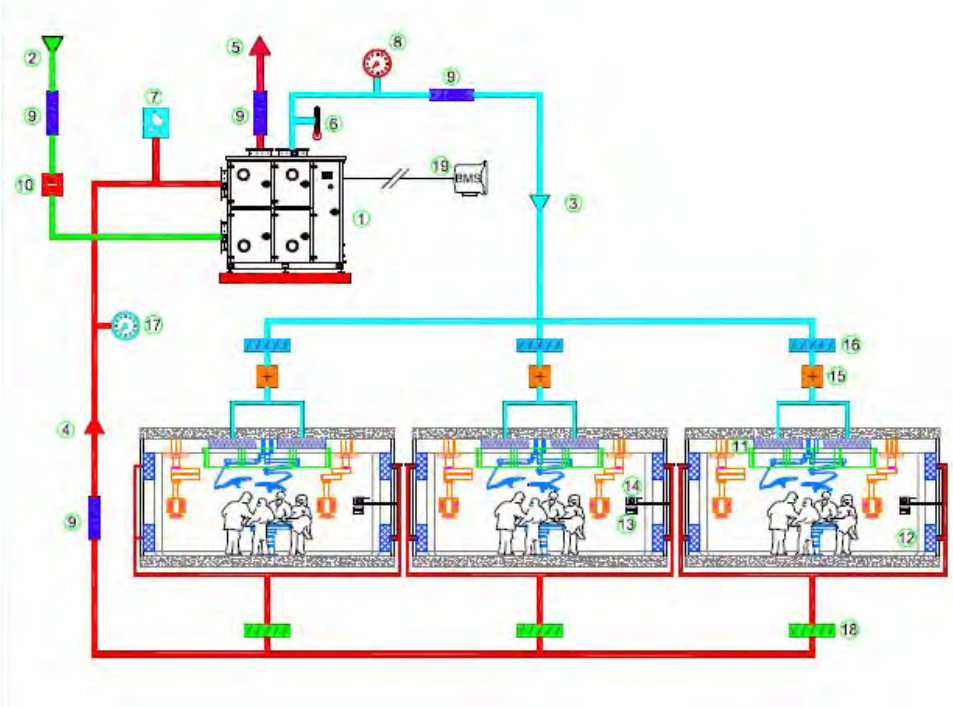
One installation per surgical room



1. Air conditioner for full fresh air or with partial recirculation
2. Fresh air intake duct
3. Supply air duct
4. Return air duct
5. Exhaust air duct
6. Supply air temperature sensor for cold set point regulation
7. Return air humidity sensor
8. Supply airflow gauge
9. Damper on fresh air intake, room supply air, return air and exhaust air
10. Anti-freeze coil on the fresh air intake
11. Unidirectional filtration ceiling with H14 absolute filter
12. Suction filter grill
13. Remote control terminal (accessory)
14. Differential pressure sensor for the dynamic management of room overpressure
15. BMS System connection

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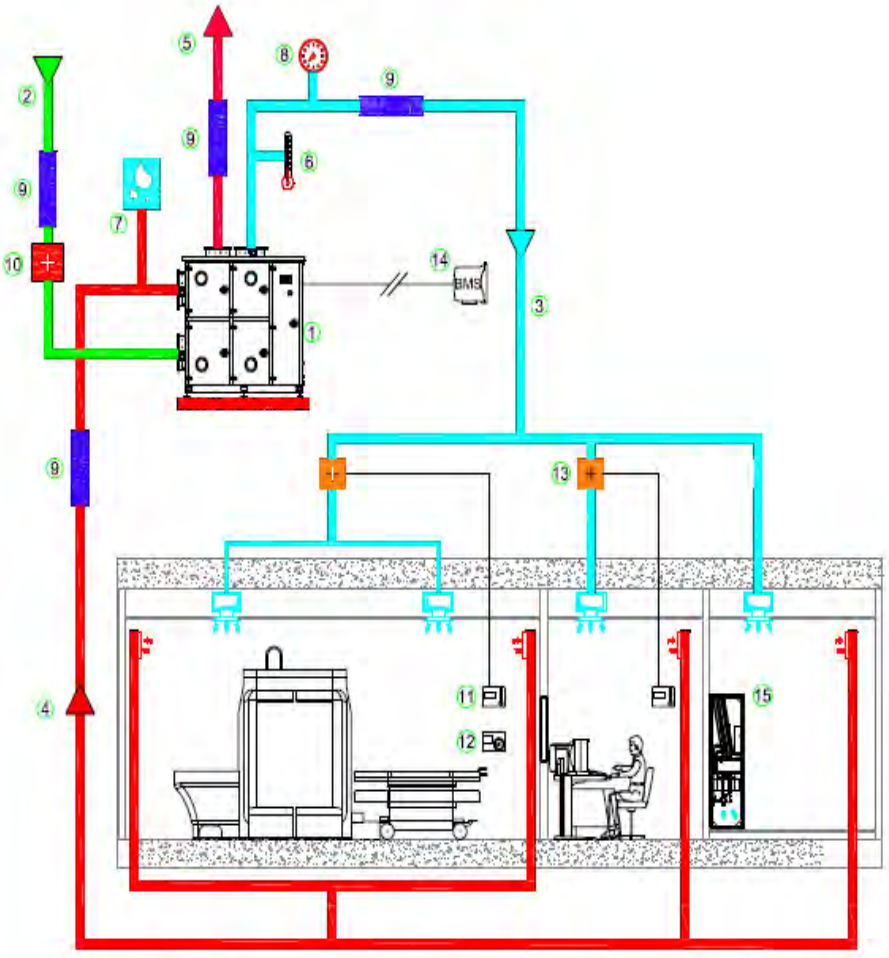
One installation per surgical room



1.	Air conditioner for full fresh air of with partial recirculation
2.	Fresh air intake duct
3.	Supply air duct
4.	Return air duct
5.	Exhaust air duct
6.	Supply air temperature sensor for cold set point regulation
7.	Return air humidity sensor
8.	Supply air pressure sensor
9.	Damper on fresh air intake, room supply air, return air and exhaust air
10.	Antifreeze coil on the fresh air intake
11.	Unidirectional filtration ceiling with H14 absolute filter
12.	Suction filter grill
13.	Remote control terminal
14.	Differential pressure sensor for the dynamic management of room overpressure
15.	Post heating water or electric coil controlled by a temperature sensor inside the room
16.	Supply airflow regulation (CAV damper) box
17.	Return air pressure sensor
18.	Return airflow regulation (VAV damper) box for the management of room overpressure
19.	BMS System connection

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Diagnostic by images



1. Chilled water air conditioner for full fresh air
2. Fresh air intake duct
3. Supply air duct
4. Return air duct
5. Exhaust air duct
6. Supply air temperature sensor for cold set point regulation
7. Return air humidity sensor
8. Supply airflow gauge
9. Sound damper on fresh air intake, room supply air, return air and exhaust air ducts
10. Antifreeze coil on the fresh air intake
11. Room temperature sensor for the regulation of the post heating coil
12. Differential pressure sensor for the dynamic management of room overpressure
13. Post heating water or electric coil controlled by a temperature sensor inside the room
14. BMS System connection
15. Chilled water close-control air conditioner with downward discharge

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Air Distribution in Surgical Rooms

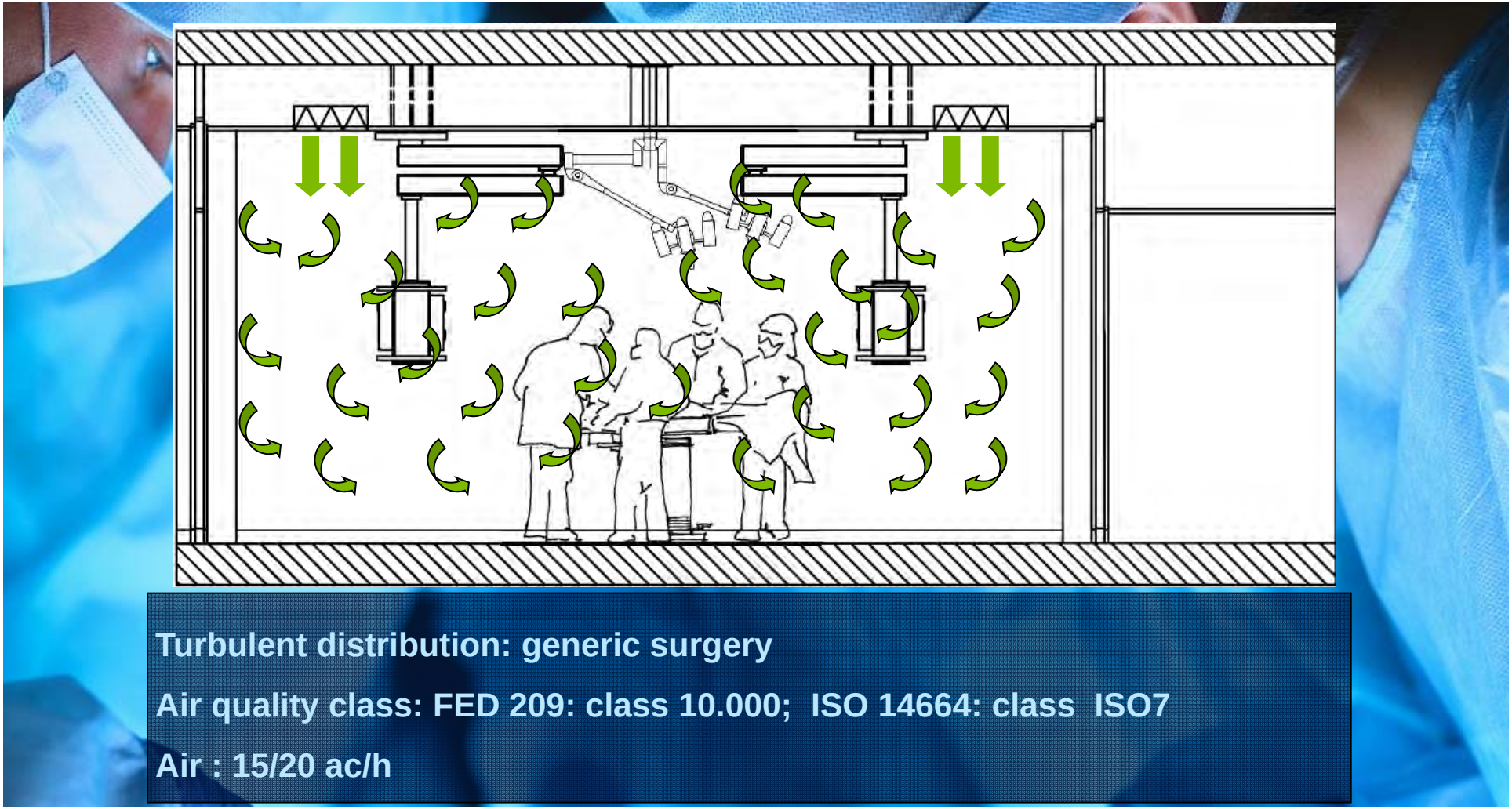
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Air distribution in Surgical Rooms can be made in two different ways, according to the requested Air Quality Class:

	Air quality Class	Necessary Air Flow	Terminal Filter	Distribution	Temperature
Generic Surgery	ISO 7	20 Vol/h	H13	Turbulent	22˚ – 26 degrees 40 % - 60% R.H
Specific Surgery	ISO 5	250 Vol/h	H14	Unidirectial	18˚ - 22˚ degrees 40% - 60% R.H

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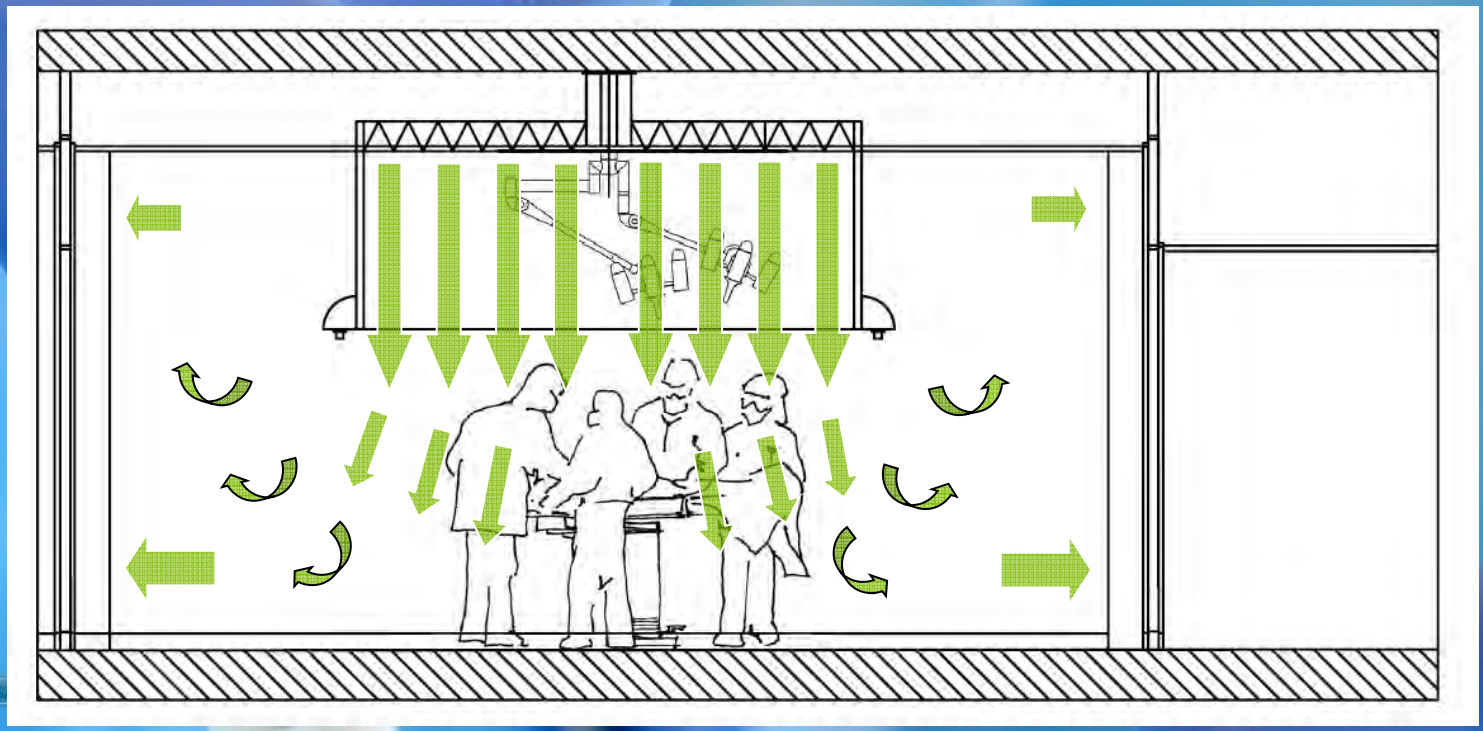


Turbulent distribution: generic surgery

Air quality class: FED 209: class 10.000; ISO 14664: class ISO7

Air : 15/20 ac/h

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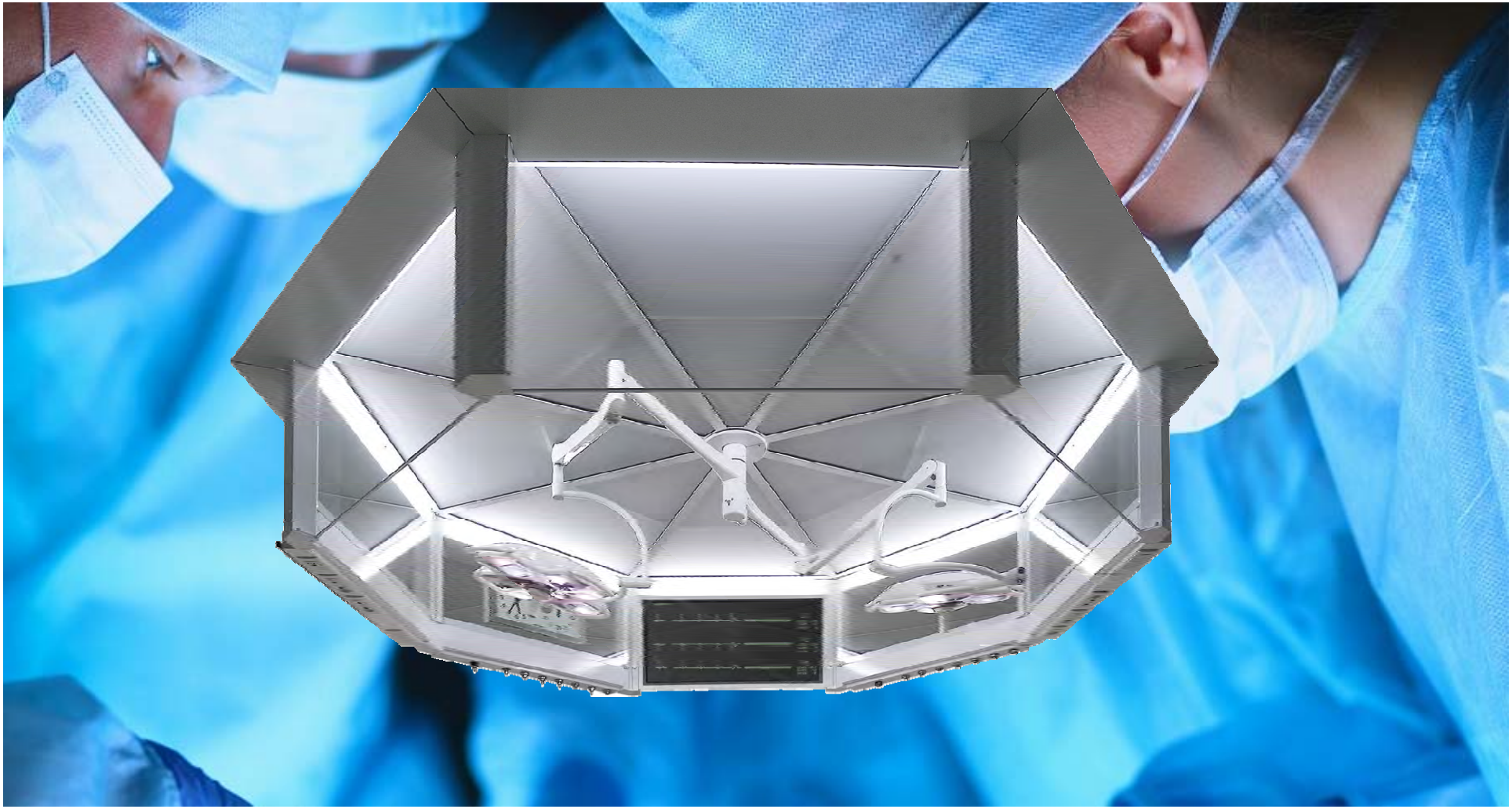
Unidirectional ceiling air distribution system: specialistic surgery

Air quality class: FED 209: class 100; ISO 14664: class ISO5

Air flow in the aseptic zone only: 250 ac/h

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OSPEDALI \ *HOSPITALS*

ROYAL MELBOURNE HOSPITAL	Melbourne
DANDENONG HOSPITAL	Dandenong





1.12 GERMANIA \ *GERMANY*

OSPEDALI \ *HOSPITALS*

UNIKLINIK GOETTINGEN	Goettingen
CLEAN ROOM	Karlsruhe





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SHANXI HOSPITAL	Shanxi
XIAN HOSPITAL	Xian









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OSPEDALI \ *HOSPITALS*

LIMASSOL HOSPITAL	Limassol
POLYCLINIC	Evangelistria





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