



**AMELICOR**

The Core of Better Future



REFERENCE  
BOOK

**HEALTHCARE**



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## ABOUT US

Amelcor Group is one of the global leaders in providing turn-key cleanroom solutions and CAPEX engineering in Pharma, Healthcare and Microelectronics, including the HVAC, operating in more than 50 countries worldwide. With in-house R&D, production, robotized and automated production lines, we provide customized solutions, achieving ambitious deadlines and cost effectiveness.

We are creating technology that impacts people's lives and makes our working and living environment healthier and safer, and a future stronger.

This Reference book is bringing selected projects within the healthcare sector, focusing on operation blocks with operating rooms, staff and patient preparation areas, ICU and NICU departments, recovery rooms, isolation rooms, and hospital laboratories. The projects are global, some executed as turn-key solutions, while others involved delivering cleanrooms and equipment integration.

## OUR NUMBERS (2022)



**850**  
employees



**4 500 000**  
delivered products



**50 000**  
m<sup>2</sup> of production space



**50**  
countries in our  
reference list



**300**  
engineers



**48**  
years of experience



**90 000**  
m<sup>2</sup> of produced  
cleanroom panels

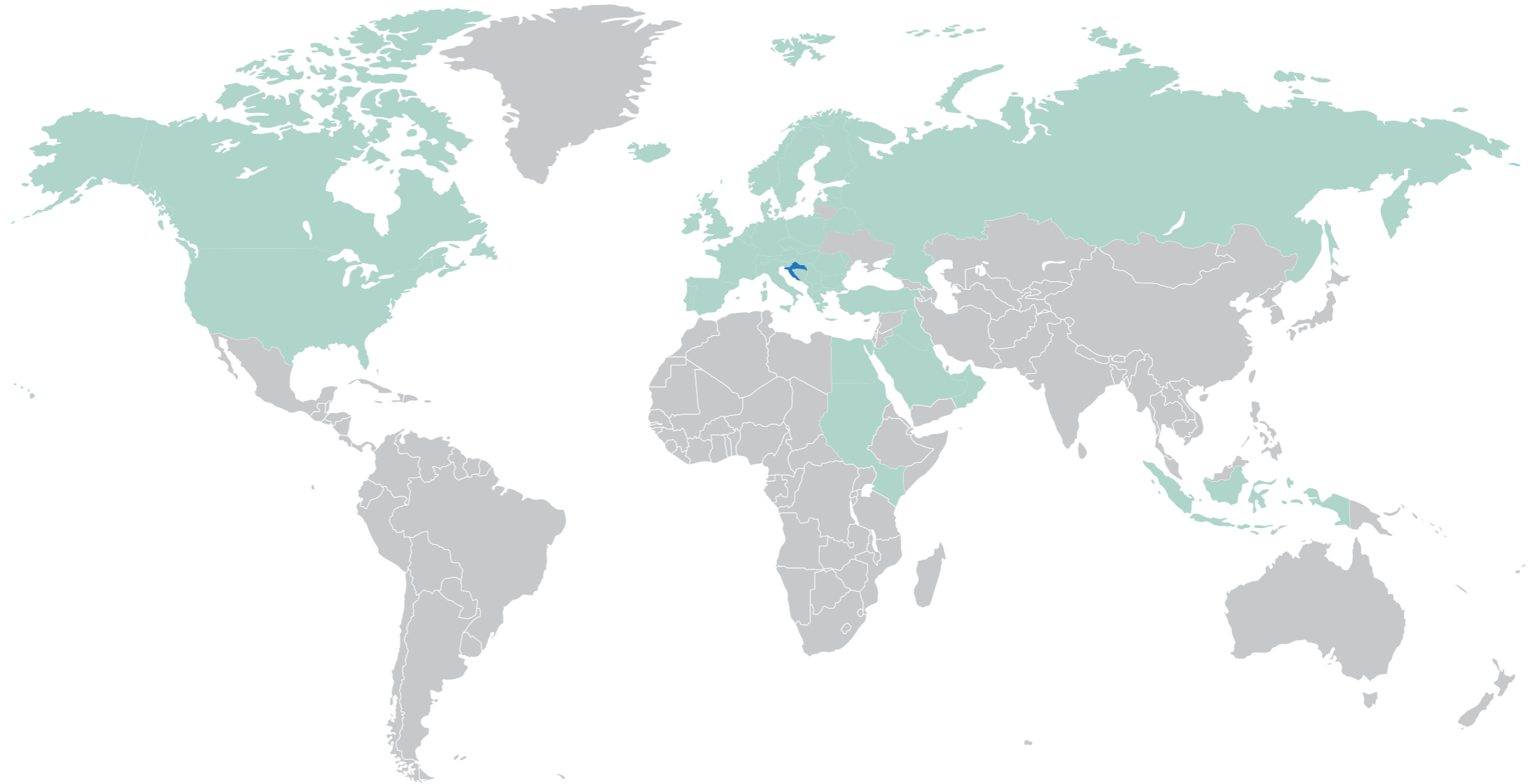


**87**  
% export revenue



## OUR LOCATIONS

- **Headquarters:**  
Croatia
  
- **Locations:**  
Switzerland, Germany,  
Bosnia and Herzegovina, Serbia,  
Slovenia, Hungary
  
- **Branch offices:**  
United Arab Emirates,  
Republic of North Macedonia
  
- **References**



## QUALITY

Klimaoprema's Quality Management System (QMS) is a process-oriented, integrated management system that ensures requirements specified by ISO 9001. Our QMS is the connection and interaction between people, processes and documentation.

Through the implementation and compliance with QMS requirements our products and services are in line with customer expectations, regulatory requirements and the company's own standards at all times.

## OCCUPATIONAL HEALTH AND SAFETY

Safety of people is our top priority. We view safety as both an individual and collective responsibility where providing safe work environment is a commitment shared by all our employees.

Klimaoprema's OHS management system has been implemented in accordance with relevant national legislations and certified according to the ISO 45001:2018 Occupational health and safety management systems.

Certificate	Category	Service provider
HRN EN ISO 9001: 2015	Quality management systems	TUV
HRN EN ISO 14001: 2015	Environmental management systems	TUV
HRN EN ISO 45001: 2018	Occupational health and safety management systems	TUV
HRN EN ISO 50001: 2018	Energy management systems	TUV
HRN EN ISO 17025: 2017	Calibration laboratory testing processes	HAA



“Our employees are the driving force of our success”.



## SISTERS OF CHARITY HOSPITAL VINOGRADSKA CROATIA



**Area:** Reconstruction of gynecology department and internal medicine surgical day hospital



**Scope:** Cleanroom panel system, operation ceilings, SS furniture, pass-through chambers, HVAC equipment



**Design:** 3D REVIT



**Challenge:** Sisters of Charity hospital was founded in 1846, making it one of the oldest and largest medical institutions in the Republic of Croatia. Given the lower ceiling height in some areas, a special HVAC system was designed to maintain the necessary sterile conditions.









## SPECIAL HOSPITAL FOR ORTHOPEDICS AND TRAUMATOLOGY AKROMION CROATIA



**Area:** 4 operating rooms



**Scope:** Cleanroom panel system, operation ceilings, lead protection, SS furniture, HVAC equipment



**Design:** 3D REVIT



**Interesting fact:** Akromion is one of the largest private hospital in Croatia. Recently Akromion relocated its location from Krapinske Toplice to Dugave in Novi Zagreb. Since its establishment in 2008 until August 2023, Akromion performed 17.276 surgeries and conducted 223.369 examinations.





## CLINICAL HOSPITAL CENTER RIJEKA, SUŠAK CROATIA



**Area:** Operating rooms, Recovery area, Preparation rooms, Laboratories, corridors



**Scope:** Cleanroom panel system, operation ceilings, HVAC equipment, pass-through boxes, SS furniture



**Design:** 3D REVIT



**Key features:** Renovation



**Interesting fact:** Clinical Hospital Center Rijeka is situated on 3 city locations and has a total capacity is 1.069 hospital beds and employs 3.456 employees (March 2023). More than 45.000 patients are hospitalized per year reaching 300.000 hospital days. Around three million outpatient services are provided and 600.000 outpatient visits.







## CHILDREN'S HOSPITAL KLAJČEVA CROATIA



**Area:** Reconstruction of operating block



**Scope:** Cleanroom panel system, operation ceilings, SS furniture, HVAC equipment



**Design:** 3D REVIT



**Challenge:** The historical building's structure in the old city of Zagreb did not allow space demolitions. The cleanroom design was made to integrate within the existing space, ensuring optimal efficiency.









## HOSPITAL IN DOHA QATAR



**Area:** 13 operating rooms, including 2 Cath labs, surgeon preparation area, corridors



**Scope:** Cleanroom panel system, operation ceilings, SS furniture, HVAC equipment, lead doors, interlock systems, glass with a customized graphics



**Design:** 3D REVIT



**Duration:** 10 months



**Key features:** New building



**Challenge:** The highlight of 2022 was the World Football Championship in Doha, a historic first time held in the Middle East. The equipment needed to be produced, installed and validated within a 10-month timeline, before the start of World Cup. The air and sea ports gave the clearance priority to the items intended for the World Cup, primarily those related to the hospitality sector. Therefore, our project execution plan was highly adaptable to the on-site conditions, as we couldn't risk any delays.







## SISTERS OF CHARITY HOSPITAL, TRAUMATOLOGY DRAŠKOVIĆEVA CROATIA



**Area:** Operating room



**Scope:** Cleanroom panel system, operation ceiling, glass with a customized graphics



**Design:** 3D REVIT



**Key features:** Renovation



**Interesting fact:** The new operating room combines medical expertise and technology and is unique in Croatian public healthcare system in the field of orthopedics and traumatology.





## UNIVERSITY HOSPITAL OF SPLIT, FIRULE CROATIA



**Area:** Operating rooms, Cath lab, surgeon preparation area, corridors



**Scope:** Cleanroom panel system, lead protection, operation ceilings, SS furniture, HVAC equipment



**Design:** 3D REVIT



**Key features:** Renovation



**Interesting fact:** University Hospital of Split is the largest hospital centre in Dalmatia, employing more than 4.000 people at 3 locations. Annually, University Hospital of Split cares for over 50.000 patients who receive more than 450.000 days of hospital treatment, while the outpatient health care clinic has over 600.000 patients a year receiving more than 2,5 million services.









## CLINICAL HOSPITAL SVETI DUH CROATIA



**Area:** Operating rooms



**Scope:** Cleanroom panel system, operation ceilings, HVAC equipment, flooring, SS furniture



**Design:** 3D REVIT



**Key features:** Renovation



**Interesting fact:** The hospital has a continuous tradition of operation since it started in 1804. Today, it is part of the healthcare network with 570 hospital beds, 120 outpatient clinics and diagnostic services.





## ST. CATHERINE SPECIALITY HOSPITAL CROATIA



**Area:** Construction of operation block



**Scope:** Cleanroom panel system, operation ceilings, SS furniture, pass-through windows, HVAC equipment



**Design:** 3D REVIT



**Interesting fact:** St. Catherine Specialty Hospital, founded in 2011, is the largest private hospital in Croatia, and represents a European Center of Excellence. The hospital's daily missions in healthcare are innovation and personalized medicine, achieved by 18 centres of excellence and 75 doctors.





## ELYZEE CLINIC ABU DHABI, UAE



**Area:** Operation block, 3 operating rooms



**Scope:** Cleanroom panel system, operation ceilings



**Design:** 3D REVIT



**Key features:** Renovation



**Challenge:** A residential villa was transformed into a private clinic, primarily for one-day aesthetic procedures. Given its previous residential design and the low ceiling height, a special design and air-flow visualization was created, as well as adapting the construction of operation ceilings and vertical exhaust corners.



## PRIVATE SPECIAL HOSPITAL CROATIA



**Area:** Construction of operation block, Cath lab, recovery rooms



**Scope:** Cleanroom panel system, operation ceilings, SS furniture, control panels, BMS, HVAC equipment, lead protection.



**Design:** 3D REVIT



**Interesting fact:** Special Hospital includes seven Polyclinics located in Croatia. Over the past decade, nearly one million patients visited the Private Special Hospital and received over 15 million different medical services.





## KING FAHD SPECIALIST HOSPITAL, DAMMAM KINGDOM OF SAUDI ARABIA



**Area:** Construction of ICU department, 6 rooms



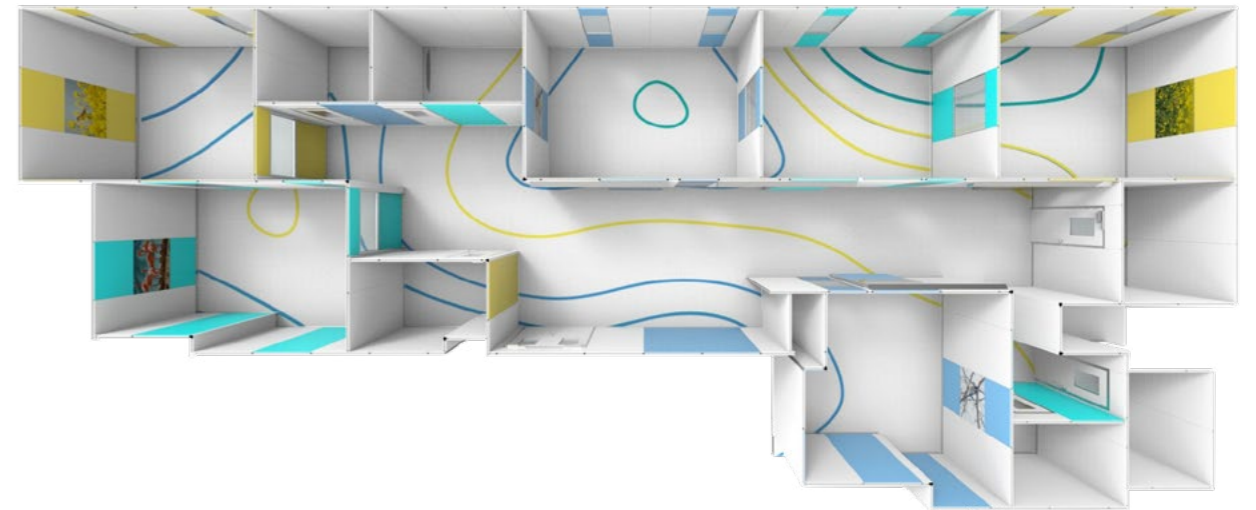
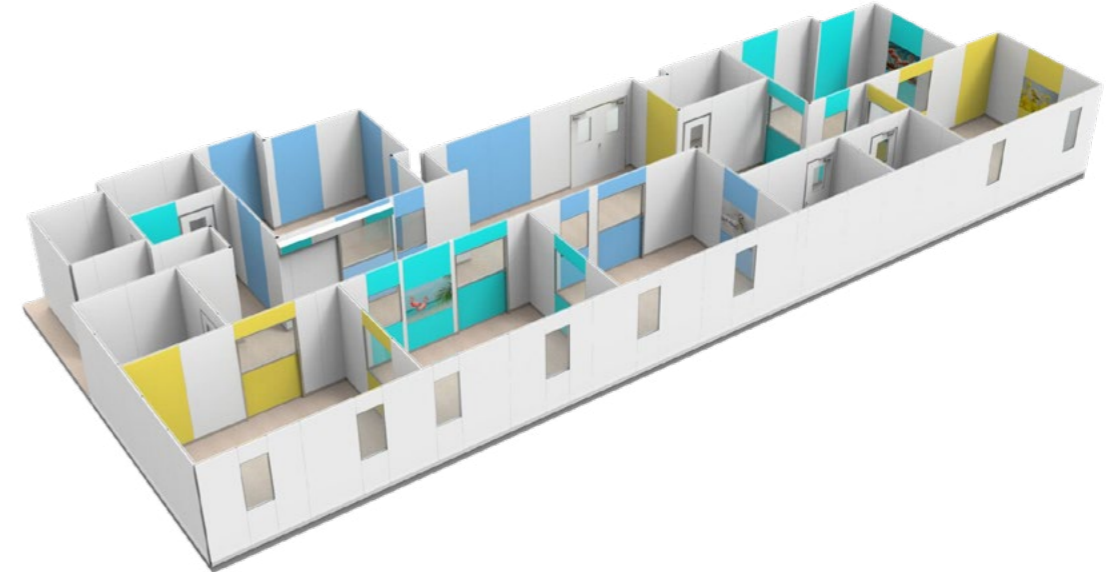
**Scope:** Cleanroom panel system, glass with a customized graphics, HVAC equipment



**Design:** 3D REVIT



**Interesting fact:** King Fahd Specialist hospital is the first specialized hospital in the Ministry of Health KSA to obtain international accreditation, and it has taken steps towards achieving a major leap in the quality of specialized medical services.







## GENERAL HOSPITAL PULA CROATIA



**Area:** 10 operating rooms, surgeon preparation area, corridors



**Scope:** Cleanroom panel system, operation ceilings, SS furniture, control panels, HVAC equipment



**Design:** 3D REVIT



**Key features:** Detailed design, complete solution and construction of surgical building



**Interesting fact:** In 2022 the hospital helped and took care of 930.337 patients, has provided 3.671.907 services and 5.796 operation procedures.





## ALTHIQALAYN HOSPITAL BAGHDAD IRAQ



**Area:** 5 operating rooms, recovery area, surgeon preparation area, corridors



**Scope:** Cleanroom panel system, glass with a customized graphics, operation ceilings, SS furniture, interlock systems, lead doors, HVAC equipment



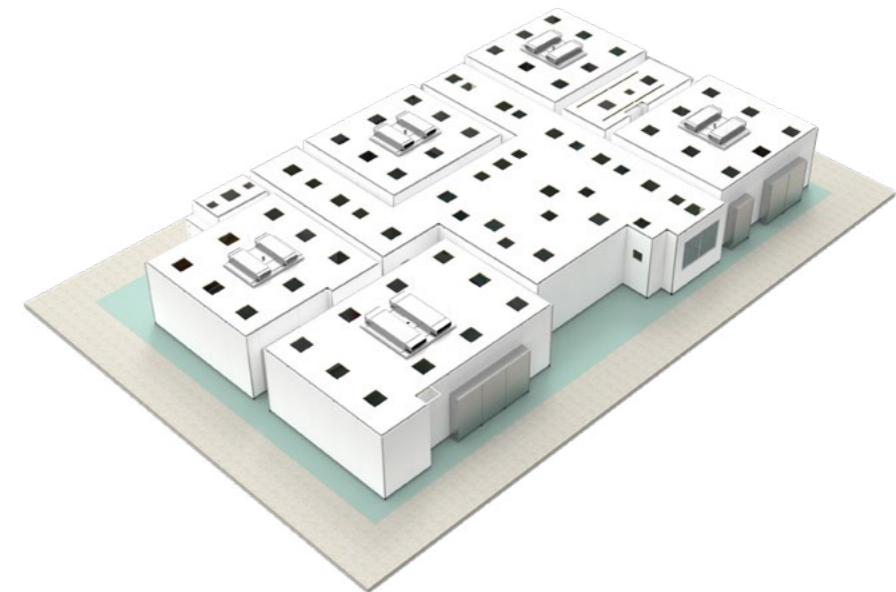
**Design:** 3D REVIT



**Key features:** New building



**Challenge:** The OR's are located at the 8th floor. For easy handling of equipment, we specially constructed operation ceilings with a lower housing.



## DUBRAVA UNIVERSITY HOSPITAL CROATIA



**Area:** Cardiology, operating rooms, ICU rooms



**Scope:** Cleanroom panel system, operation ceilings, lead doors, HVAC equipment



**Design:** AutoCAD 3D



**Key features:** Renovation



**Interesting fact:** Dubrava University hospital is a modern health facility where the latest and most complex methods of treatment are carried out. It is a place where specialist and subspecialist training is conducted and it is the teaching base for students of many universities.



## CLINICAL HOSPITAL CENTER SPLIT, MATERNITY HOSPITAL CROATIA



**Area:** Pediatrics and Obstetrics, operating rooms



**Scope:** Cleanroom panel system, operation ceilings



**Design:** AutoCAD 3D



**Key features:** New building





## ASEER HOSPITAL ABHA KINGDOM OF SAUDI ARABIA



**Area:** Trauma, Triage



**Scope:** Cleanroom panel system, glass with a customized graphics, SS furniture



**Design:** 3D REVIT



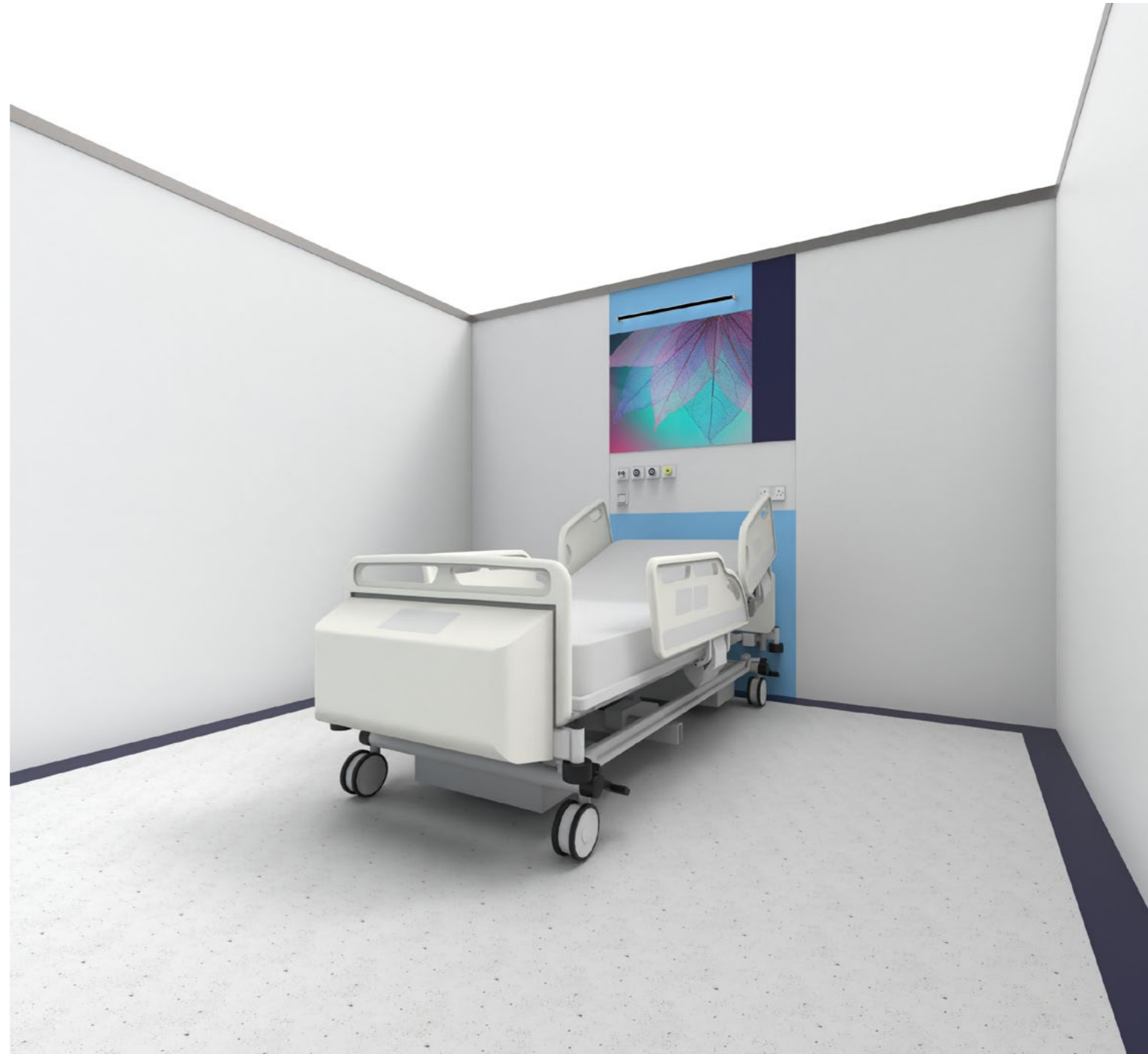
**Key features:** Renovation



**Interesting fact:** Abha, the capital of Aseer region has several hospitals and medical facilities, covered by Saudi Arabia's well developed healthcare system. Kingdom of Saudi Arabia has made significant investments in medical infrastructure to provide world class healthcare services to it's residents and visitors.







## COUNTY HOSPITAL ČAKOVEC CROATIA



**Area:** 6 operating rooms, surgeon preparation area, corridors



**Scope:** Cleanroom panel system, operation ceilings, SS furniture, control panels, BMS, HVAC equipment

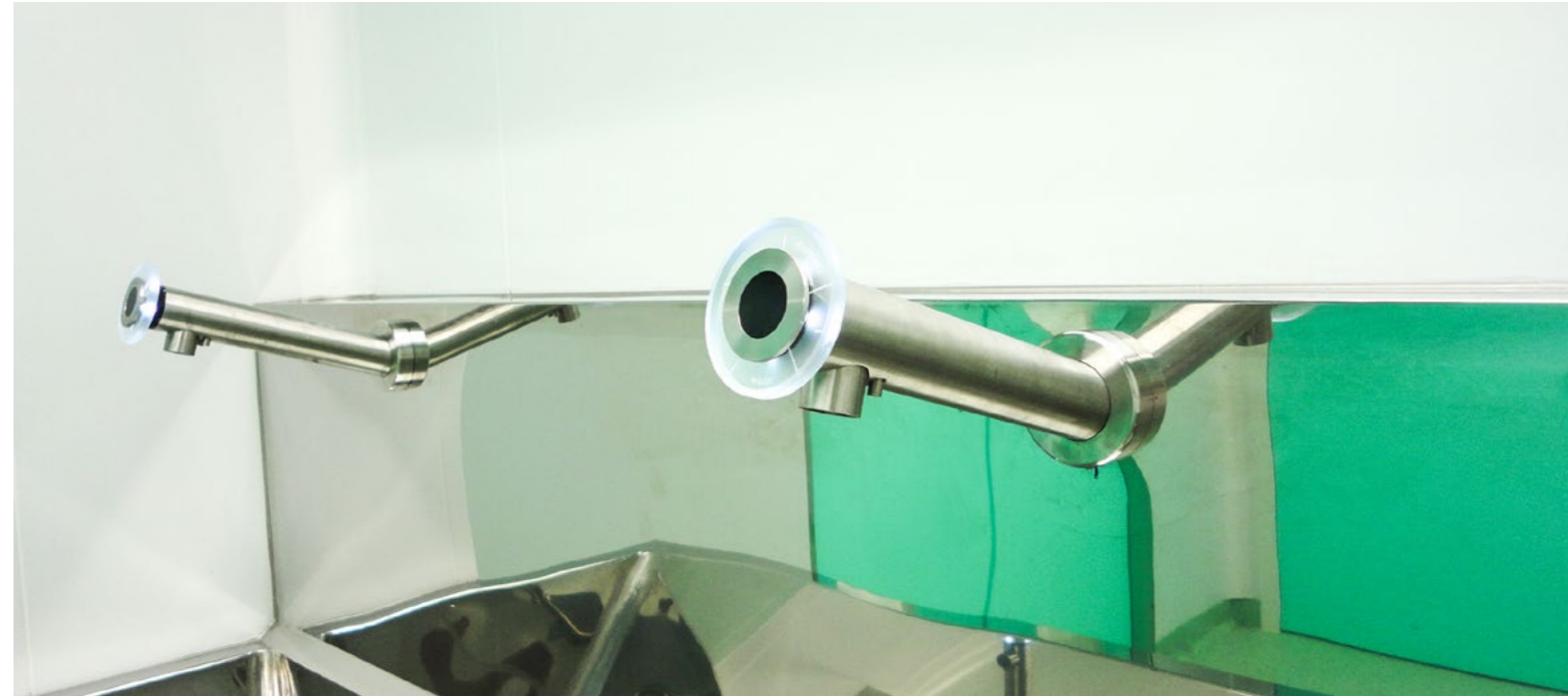


**Design:** AutoCAD 3D



**Challenge:** During the installation process, the operation block couldn't be closed due to scheduled surgeries, and it was important to maintain a quiet environment. We divided and sound isolated the area, installing 3+3 OR's. Once the initial set of 3 OR's was completed, surgeries were conducted in those rooms, while simultaneously working on the next set of 3 OR's.







 **Roberta Frangeša Mihanovića 9,  
10110 Zagreb, Croatia**

 **+385 (0)1 4242 200  
+385 (0)1 6264 475**

 **info@amelicor.group**

 **www.amelicor.group**



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