

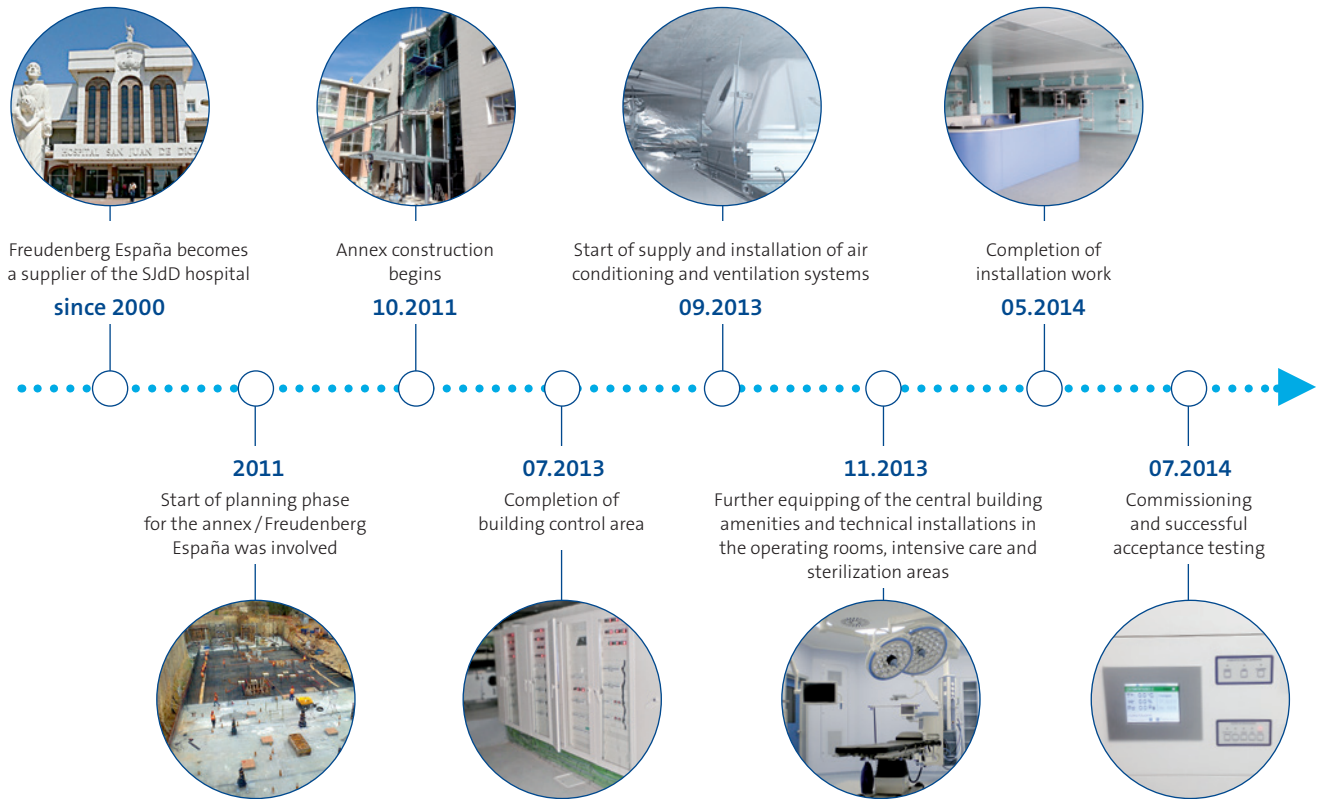
REFERENCE

viledon®

FILTRATION SYSTEMS IN CLEANROOM QUALITY FOR HOSPITAL SAN JUAN DE DIOS IN CÓRDOBA

With its new annex, the Hospital San Juan de Dios in Córdoba, Spain, is one of the most technologically advanced hospitals in Andalusia. Between October 2011 and July 2014, the 200-bed hospital's outpatient area was expanded, a new intensive care unit was built, eight operating rooms were equipped with high-tech equipment and the very latest hospital technology was installed. This modernization program included efficient air conditioning and ventilation systems for the cleanrooms, designed and implemented by Viledon® experts.

The powerful new air conditioning and ventilation systems from Freudenberg Filtration Technologies currently supply a total area of 1,287 m² with 54,013 m³/h of filtered and conditioned air in the required cleanroom air quality, including eight operating rooms, the intensive care unit and sterilization areas. With a contract value of close to one million Euros, this extensive project drew heavily on Freudenberg's technical expertise for the design and construction of complete, state-of-the-art filtration systems in cleanroom quality.





Services provided

- Customized system solution from the first to the last step
- Comprehensive package of services from a single source: from design to commissioning
- Viledon® high-performance air filters for cleanroom requirements
- Complete order processing
- Turnkey installation
- Acceptance report with test reports and certificates
- After-sales support with measurements, technical service and maintenance



HEPA SF 14 with silgel seal

Vortex flow outlet

Ceiling air outlet SFDLA

Overview of technical installations

LOCATION	TECHNICAL EQUIPMENT
Technical	13 air conditioning units
	Switchboards and electrical equipment
	Central control unit for temperature, pressure, humidity and constant volume flow
	Piping for steam and cold water supply to the air conditioning units, incl. insulation
Operating rooms, sterilization and intensive care area	Blowers, incl. control system
	Ceiling air outlets (partly low turbulence) with Viledon® HEPA filters
	Supply and exhaust air ducts
	Temperature, pressure and humidity sensors

Filter configuration

LOCATION	VILEDON FILTERS USED
13 air conditioners	50 metal filters, class G4
	14 pocket filters WinAir 98 5/6, BT 510 mm
	54 MVP 98 cassette filters
Operating rooms and cleanroom area	30 HEPA filters H 14, 545 × 545 × 80 mm with aluminium frame, silgel seal and protection grid made of stainless steel
	3 HEPA filters H 14, 305 × 305 × 80 mm with aluminium frame, silgel seal and protection grid made of stainless steel
	4 HEPA filters H 14, 610 × 1,525 × 80 mm for laminar flow boxes, with aluminium frame, silgel seal and protection grid made of stainless steel

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