

# HOSPITAL NUESTRA SEÑORA DE AMÉRICA MADRID, SPAIN

## KEY PARAMETERS

- Type of Facility – Existing (EB)
- Function – Healthcare
- Area – 5-story medical facility
- Project Completed – 2011

**Challenge:** Remodeling the HVAC plant of an intensive care facility at the Our Lady of America Hospital in Madrid. The facility desired the maximum level of indoor air quality for patient and employee safety and health while optimizing energy efficiency.



**Solution:** The designers included two eco-efficient filtration steps. First, Dynamic V8 Air Cleaning Systems provided a filtration step at a filtration efficiency of F9. A second step used photo catalytic oxidation (PCO) with ultraviolet germicidal irradiation (UVGI) for control of gases and microorganisms.



**Results:** Separate systems provide controlled environments for infectious patients and for patients with compromised immune systems. According to designers, the system exceeds criteria established by the U.S. Centers for

Disease Control and Prevention and meets requirements for HEPA filtration, germicidal UVGI emissions and continuous monitoring of differential pressure levels.



## TEAM

- Owner – Hospital Nuestra Señora de América
- Engineering – Valladares Ingenieros
- Consultants – Aire Limpio S.L
- General Contractor – Aire Limpio S.L

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