

LEE COUNTY VA HEALTHCARE CENTER CAPE CORAL, FLORIDA

KEY PARAMETERS

- Type of Facility – New Construction
- Function – Healthcare
- Area – 224,000 sf, 5-stories
- Project Completed – December 2012

The Lee County specialty care and outpatient clinic serves more than 200,000 veterans living in southwest Florida and employs approximately 420 medical and administrative professionals.



Challenges: Reduce energy consumption and maintenance costs in addition to high-efficiency filtration as specified.

The \$53.1 million project was designed primarily as an outpatient healthcare center to replace an existing outpatient healthcare facility while addressing the needs of a growing Veteran population in the southwest Florida area. The facility features sustainable designs including natural lighting and automated building management systems.

Solution: Over one hundred Dynamic V8 Air Cleaning Systems were installed in seventeen custom air handlers serving the facility. In addition, the project included three 350-ton water-cooled chillers, a 35-ton



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air-cooled chiller, a 70-ton heat recovery chiller, along with ERVs on all air-handling units to recover the energy from the exhaust air.

Results: The low static pressure of the Dynamic V8s, relative to conventional high efficiency MERV 14 passive filters, allowed the owner to reduce fan energy and energy costs.

Additionally, maintenance costs were dramatically lower relative to conventional, passive filters and pre-filters. Dynamic V8 Air Cleaner filter media

requires replacement only every few years, unlike passive, conventional filters that require replacing every few months. Media in two west-facing air handlers were replaced in 2015 due to sand from prevailing winds. Plans are to replace the media in the other units in 2019, representing a service life of almost seven (7) years.



TEAM

- Owner – U.S. Department of Veterans Affairs
- Architects – HOK
- Engineers – HOK
- General Contractor – Manhattan Construction
- Mechanical Contractor – B&I Contractors

MECHANICAL SYSTEMS

- HVAC – Trane
- Building Controls – Trane Tracer Summit

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