FläktGroup®
SEMCO®

FORT CAVAZOS
CARL R. DARNALL ARMY MEDICAL CENTER
CASE STUDY

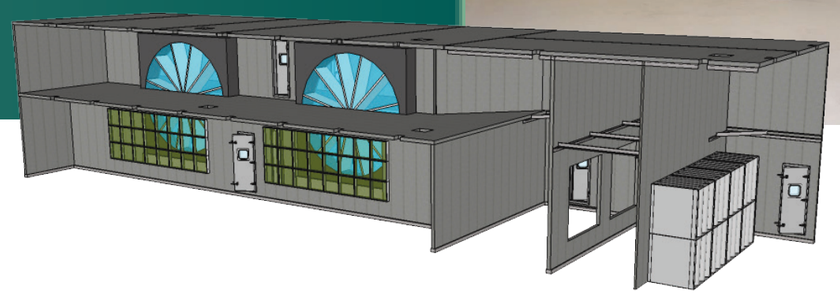
SUPERIOR PRODUCT AT A COMPETITIVE PRICE

The Carl R. Darnall Army Medical Center, located in Fort Cavazos, Texas, began construction in 2011. The goal of the project was to create a modern version of the original center that would provide a long-lasting, state of the art healing environment. Seeking an efficient solution that would provide housing for their very large HVAC system, Southland Industries contractors chose FläktGroup® SEMCO® to supply over 67,000 square feet of acoustic AT-PANELs and MD-PANEL Solutions.

"Our team selected FläktGroup® SEMCO® enclosures because they offered a superior product at a competitive price. The FläktGroup SEMCO enclosure system offers excellent structural integrity which will support the low leakages required by the energy recovery design."

- Gary Lovewell, project manager for Southland Industries

CASE STUDY



Gary Lovewell, project manager for Southland Industries, knew selecting the right panel manufacturer to supply the more than 67,000 square foot of panels needed would be integral to the overall success of the project.

"Our team selected FläktGroup SEMCO enclosures because they offered a superior product at a competitive price. The FläktGroupSEMCO enclosure system offers excellent structural integrity which will support the low leakages required by the energy recovery design." said Lovewell.

The HVAC units at the CRDAMC include a 100 percent dedicated outdoor air system (DOAS) composed of 21 wheels, 14 feet in diameter, house six free-standing wheel enclosures made of FläktGroup SEMCO AT-PANEL Solutions. The air is distributed into massive 162 X 72 inch ductwork made of FläktGroup SEMCO MD-PANEL Solutions.

FläktGroup SEMCO's MD-PANEL Solutions were used to create two massive 100 and 175 feet long plenums. In just five days, they were assembled on the ground and then lifted using 14 chain falls. Lifting the panels took roughly four hours to complete. The Center's HVAC system required 4-inch insulation. FläktGroup SEMCO's acoustic panels came pre-insulated, saving on the time it would take to install ductwork and insulation separately.

In an effort to cut down even more on installation time, FläktGroup SEMCO's panels were chosen because of their tongue and groove design which allowed workers to easily line up the male and female joints without the hassle of placing a screw every 8 inches.

FläktGroup SEMCO AT-PANEL and MD-PANEL Solutions are available in 2"-6" thicknesses. Each panel is numbered as it is manufactured to match the number on the custom design drawing. This "construction by numbers" process reduces installation time and costs by including easy-to-follow assembly instructions, plus all necessary trim, sealant, and screws.

The project included an intermediate deck between the lowest floor and the roof made of acoustic panels, solid on both sides and constructed to serve as a walkable platform.

PANEL SOLUTIONS

ACOUSTIC/THERMAL SYSTEMS AT PANEL SOLUTIONS

MODULAR DUCT SYSTEMS MD PANEL SOLUTIONS

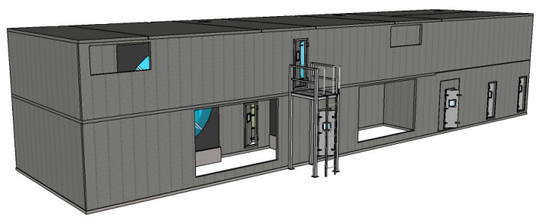
Working closely with FläktGroup SEMCO's service team, workers received support from the early stages of the project. In preparation for projects, FläktGroup SEMCO holds conference calls with the installer to address delivery phasing, assembly drawings, BOMs and a product identification plan that best suits the project.

FläktGroup SEMCO offers the following:

- Coordinated conference calls with a dedicated sales and design team
- Detailed bill of materials
- State of the art assembly drawings
- Job specific details

"The drawings were very detailed. The bill of materials had every single piece listed. There were no questions to ask on how to build them," said Matt Chadwick, Design-Build Contractor at Southland Industries.

In April, 2016, the 947,000 square foot center opened. It features three parking garages, 7 stories, and over 100 beds. At 60 percent larger than the previous center, the new Carl R. Darnall Medical Center opened as one of the largest medical centers within the Department of Defense.



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