



PANEL SOLUTIONS APPLICATIONS: FOR DATA CENTERS

CHALLENGE: SOUND CONTROL

Noisy chiller, generators, mechanical, and electrical equipment is disrupting to workers and/or nearby communities.

SOLUTION: ACOUSTIC BARRIERS

Custom panel enclosures can be erected as sound barriers or screens around noisy equipment, successfully solving noise concerns.

CHALLENGE: FIRE SAFETY

In the event of a fire, servers and equipment are destroyed before fire fighters arrive.

SOLUTION: FIRE PROTECTION PANELS

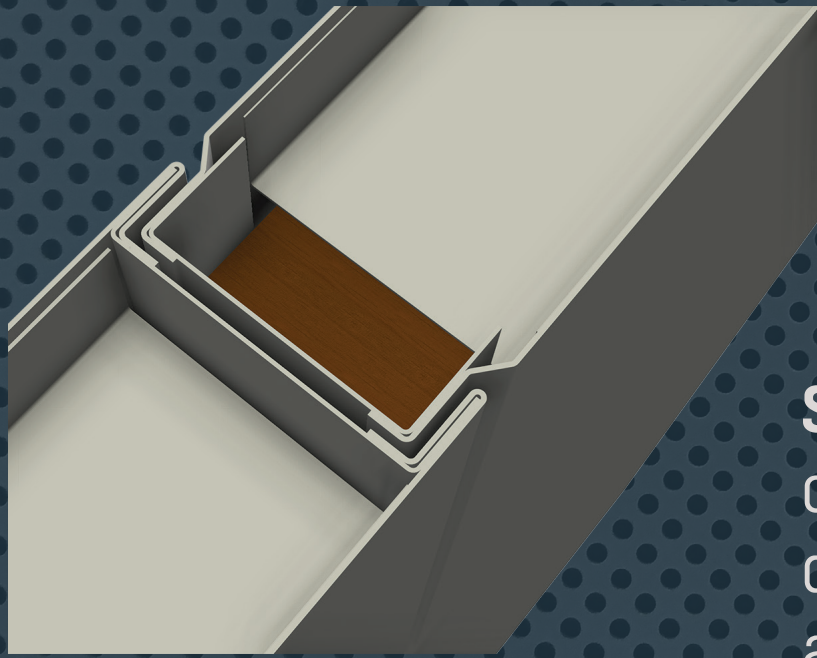
FläktGroup[®] SEMCO[®] fire panels are engineered to provide thermal and structural protection for up to two hours during the event of a fire. This ensures that equipment and staff will remain safe until fire fighters arrive. FläktGroup SEMCO fire-rated panels are the industry's only fire protection panel that is also building code-compliant for use in structural, acoustical, and thermal applications.

CHALLENGE: BUILDING ENVELOPE RETENTION

Penetrations in your building envelope, to transfer air into and out of the building, leave the building susceptible to the outdoor environment.

SOLUTION: AIR DISTRIBUTION PLENUMS

Panels can be used to construct custom air intake and exhaust plenums, needed for air distribution within the data center. FläktGroup SEMCO intake and exhaust plenum panels use their thermal properties to help retain the full thermal and weather-proof properties of the building envelope.



FläktGroup® SEMCO® panels feature tongue-and-groove joints with custom insulation.



NOISE
DAMPENING



STRUCTURAL
INTEGRITY



CUSTOM
PANEL DESIGN

**Superior quality,
custom engineered
data center structures
at a lower cost.**

CHALLENGE: MODULAR DATA CENTERS

Portable data center enclosures need acoustic and insulating features for the exterior.

CHALLENGE: CUSTOM EXPANDABILITY

Additional air handling equipment is needed to enhance the facility's cooling capacity.

CHALLENGE: MASS AIR MOVEMENT

Large modular duct is needed to bring in the volume of outdoor air needed to keep data center equipment cool and functioning, resulting in increased labor and cost.

CHALLENGE: PANEL CLADDING

FläktGroup SEMCO AT panels have the acoustic and thermal properties to give the portable structure its needs.

SOLUTION: AIR HANDLING SYSTEM ENCLOSURE

Panels can be used to encase data center air handling fans, filters, coils, and dampers. Using panels to encase equipment results in less air leakage and noise generation. Panels can also be used to create plenums.

SOLUTION: AIR DISTRIBUTION

Modular panels offer a low cost substitution to field-built dual wall duct used to connect plenums or housings.



For more information on FläktGroup SEMCO Panel Solutions, or to find your local sales representative visit www.semcohvac.com.

EXCELLENCE IN SOLUTIONS

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