



SOLUTIONS



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Focused on The Engineered Environment

January 2012

Welcome to SOLUTIONS, a monthly newsletter provided by Jacco & Associates. Jacco's focus on system knowledge provides you with the engineering support and product solutions for your applications.

January Feature:

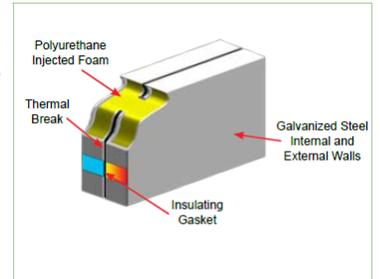


Foam Panel Construction

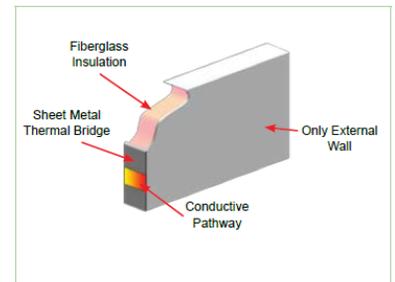
ASHRAE standards list that all above deck insulation in our climate zone be rated at a minimum of R-20. HVAC systems typically see 4-8 air changes in a building depending on the application. That means every 60 minutes anywhere from 4-8 times the volume of the building passes through the HVAC system. Aaon has recognized this relationship as an influential factor in HVAC energy efficiency. That is why every piece of HVAC equipment Aaon manufactures comes standard with double wall foam panel construction.

Benefits Of Foam Panel Construction:

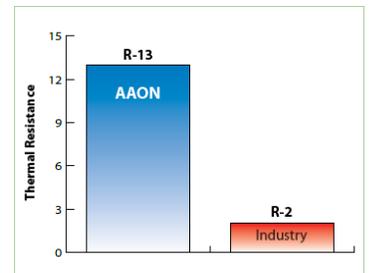
- **Operating Costs:** Insulation and infiltration costs are reduced due to a well insulated cabinet and cabinet rigidity. In a 75 ton system this would translate to an approximate \$3,000/year savings.
- **Thermal Resistance & Breaks:** Aaon's 2" foam panel has the equivalent (R-13) R value as a 4" fiberglass panel found in expensive custom units. The thermal break disconnects the conductive path between the cabinet interior and the atmosphere, saving energy and money.
- **Air Seals:** Aaon's double wall panel allows us to have continuous door seals to eliminate infiltration of untreated air into the unit. Typical single wall, fiberglass insulated units cannot have door seals and often leak costly ambient air into the unit.
- **Rigidity:** The L/240 deflection ratio (@ 8" static) provides cabinet rigidity and lessens air infiltration while adding life to the unit cabinet.
- **Maintainability:** Foam panels with a thermal break protect the cabinet interior from forming condensation, resist moisture, and provide the ability to clean the interior of the unit.
- **Indoor Air Quality:** By prohibiting moisture formation and inhibiting microbial growth indoor air quality is drastically improved.
- **Equipment Life:** Double wall foam panels last a lifetime. Single wall fiberglass panels deteriorate, causing additional moisture formation and premature metal failure.



AAON Rigid Polyurethane Foam Panels



Conventional Fiberglass Panels



Two inch, double wall, rigid polyurethane foam insulation compared to one inch of fiberglass batt

January Question & Answer:

Question: L/240 means that a 5' panel at 8" static will have a maximum deflection of?

- A.) 1/8" B.) 1/4" C.) 1/2" D.) 3/4"

Prize: Kindle Fire!

Respond by February 15th with the correct answer to be entered in the raffle for this month's prize!

Last Month's Question & Answer Winner!

Question: In order to air balance a direct drive fan, which of the following can be used?

Answer: D.) A,B,C. Congratulations to Brian Holloway for winning an Apple TV!

To remove your name from our mailing list, please [click here](#).

Questions or comments? E-mail us at opportunity@jacco.com



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