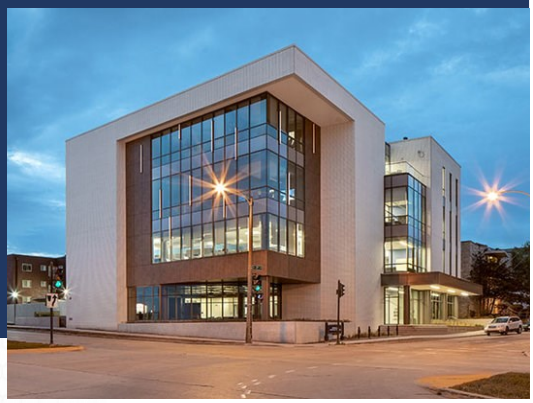
Channel Blender®

Freeze protection, without the footprint

"The Channel Blender product gave us the competitive advantage to win the contract and successfully install a new AHU at the Marquette University Physician Assistant Studies Building."

Tim Barham
Sales Engineer
Vyron Corporation

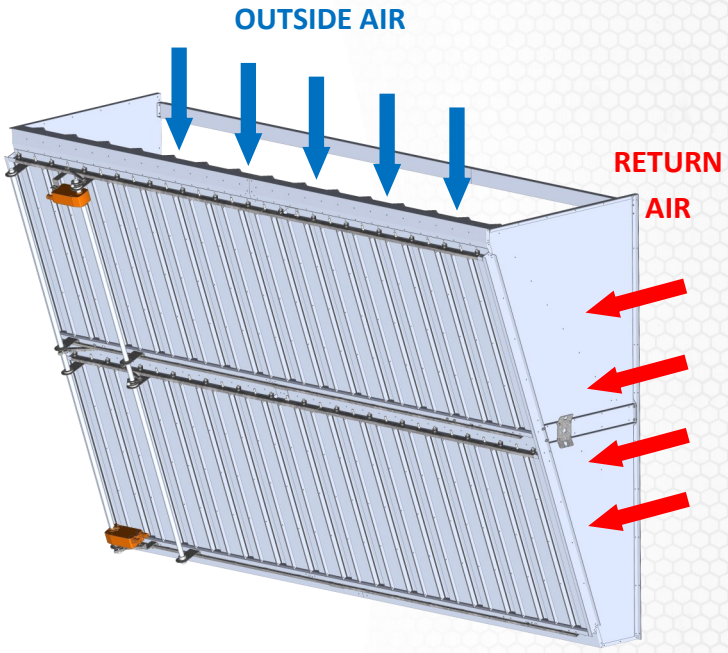


Project Overview

- Marquette University Physician Assistant Studies Building
- Milwaukee, WI
- Installed September 2018
- Construction Type: New-build
- AHU Manufacturer: Temtrol
- Blender Rep: Vyron Corporation

Challenges

- Limited space available for new air handling unit
- Eliminate freeze stat trips in cold weather environment and maintain 25% minimum OA air flow requirements
- Provide sufficient mixing without increasing length of AHU
- Traditional mixing technologies would have increased tunnel length by over 60"



Channel Blender® Solution

- Channel Blender installed in mixing section of custom AHU
- SA Flow: 47,000 CFM
- Min. OA Flow: 11,750 CFM
- Mixing Box Dimensions: 103"H x 152"W x 60"D
- CB Dimensions: 93"H x 136"W x 50"D
- OA Design Temp: -20°F
- Minimum Temp downstream of CB: 48°F
- **See back page for performance information**

Performance History with Channel Blender®

Marquette University Physician Assistant Studies Building

0

- Number of recorded freeze stat trips after the channel blender was installed during normal operations of AHU.

48

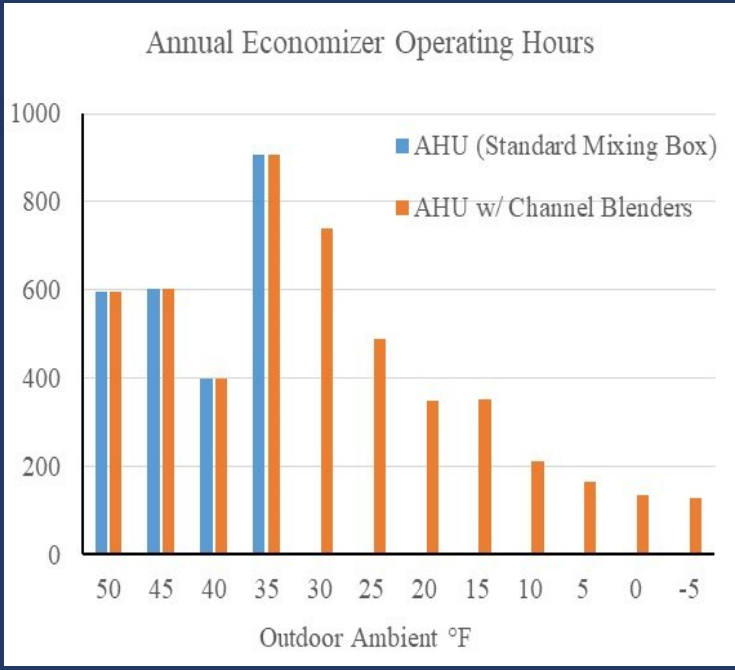
- Minimum temperature (°F) downstream of Channel Blender as predicted by CFD modeling. See figure below.

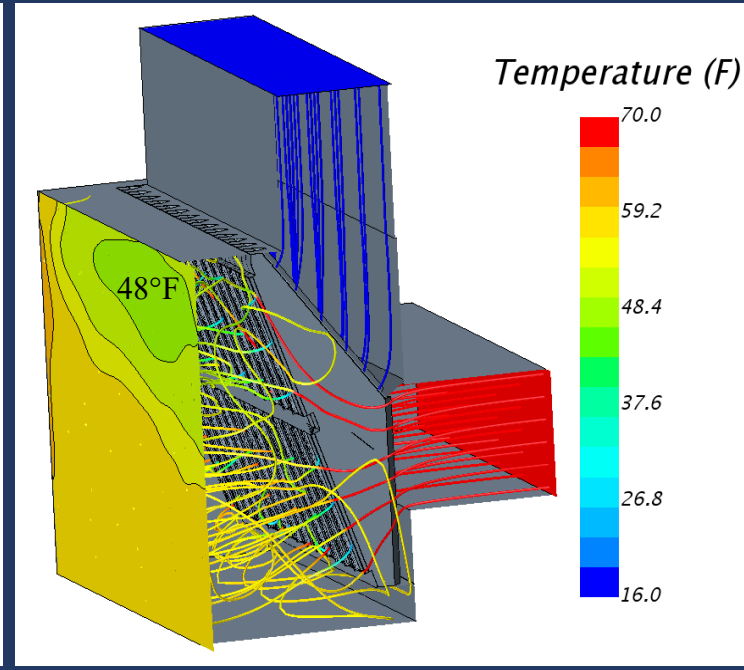
0.38

- Pressure drop (in wc) across the mixing device and integrated dampers at 100% OA flow condition.

2,500

- Estimated number of hours the Channel Blender® is able to extend economizing hours annually.





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