

Fanwall

Date reviewed: 01/04/2016

Description of Technology

Energy Saving Opportunity

It is a combination of smaller fan units built into a wall section to replace a traditional single large fan. Multiple fans can be operated at different time depending on demand.

Sector(s):

- Residential
- Commercial & Industrial

Applicability Criteria:

Retrofit

Efficiency Improvement:

Modulated fan units

Energy (%) Savings Potential:

5% - 10%

Demand (%) Reduction Potential:

Highly Variable

Strengths

Weakness

- The configurability of multiple fan units increase redundancy, which increase reliability against operational failure
- Ease of installment and maintenance due to the smaller size of each fan unit
- Reduction in noise

- Larger motors generally have higher efficiency compared to smaller motors, therefore there may be cases where fanwall will decrease efficiency
- Concerns are raised regarding if fanwall can deliver an even piston of airflow

**Third Party Analysis/
Previous MTAC Reviews**

**Suppliers Known
to MTAC**

MTAC Status

- Building Value in Air by Greenheck
- Eversource conducted an energy analysis for a hospital facility

Hunt Air
Ventrol
Temtrol

Acknowledged to have energy savings potential for retrofit and referred to individual PA for their own EE program consideration

Market Development Issues

Cost: Varies

Market Risk and Barriers: Not suitable for all cases

Time to Market: Currently on market

Simple Pay-back: (Years) 2-5 years

