

Blown Away

AIR CURTAINS: A VIABLE ALTERNATIVE TO VESTIBULES

Your company would love to cut energy costs, but every time a customer walks in the door, some of that expensively conditioned air flows out. So what's the best solution? Recent studies have proven that air curtains are more effective at saving energy than vestibules. Find out how much you could start saving today.

Gone with the Wind



19% global energy consumed by the U.S. in 2011



41% primary energy usage in the U.S. was by the building sector

The Cost of Energy Savings

COST OF A VESTIBULE



\$20,000 - \$60,000

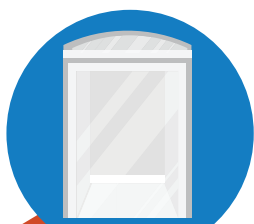
COST OF AN AIR CURTAIN



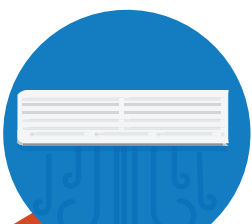
\$2,000 - \$6,000 + Installation

Weighing Your Options

A 2008 Berner study concluded that regardless of loading, building performance aligns in the same order:



VESTIBULE



AIR CURTAIN



AIR CURTAIN + VESTIBULE

GOOD
TEMPERATURE
RETENTION

BETTER
TEMPERATURE
RETENTION

BEST
TEMPERATURE
RETENTION

The biggest step you can take toward energy savings is installing an air curtain

33.5°F
10.3°F

More wind and pedestrian traffic

TEMPERATURE LOSS:
20.6°F
9.6°F

Less wind and pedestrian traffic

19.6°F
9.3°F

Long-Term Losses or Long-Term Savings?

An investigation by the Air Movement and Control Association International, Inc., concluded:

FOR A MODELED MEDIUM OFFICE BUILDING:

1,146 KWH - 18,986 KWH

3

Climate Zone

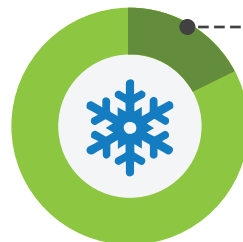
8

IN ANNUAL SAVINGS

with an air curtain in cooler climates compared to vestibules

AIR CURTAINS REDUCE AIR INFILTRATION **SIGNIFICANTLY**

70-80%!



Air infiltration accounts for up to **18%** of heat loss

Berner.com: SAVING ENERGY AND CREATING HEALTHY, COMFORTABLE ENVIRONMENTS

SOURCES:

<http://www.amca.org/UserFiles/file/Energy%20Initiative%20Web%20Pages/Air%20Curtain%20Study%281%29.pdf>
<http://www.amca.org/UserFiles/file/Energy%20Initiative%20Web%20Pages/Air%20Curtain%20Study%281%29.pdf>
<http://www.berner.com/AirCurtainPerformanceResearch.php5>
<http://www.amca.org/UserFiles/file/Energy%20Initiative%20Web%20Pages/Air%20Curtain%20Study%281%29.pdf>
Berner International Corp. Air Curtains: A Proven Alternative to Vestibule Design. New Castle, PA. 2008.