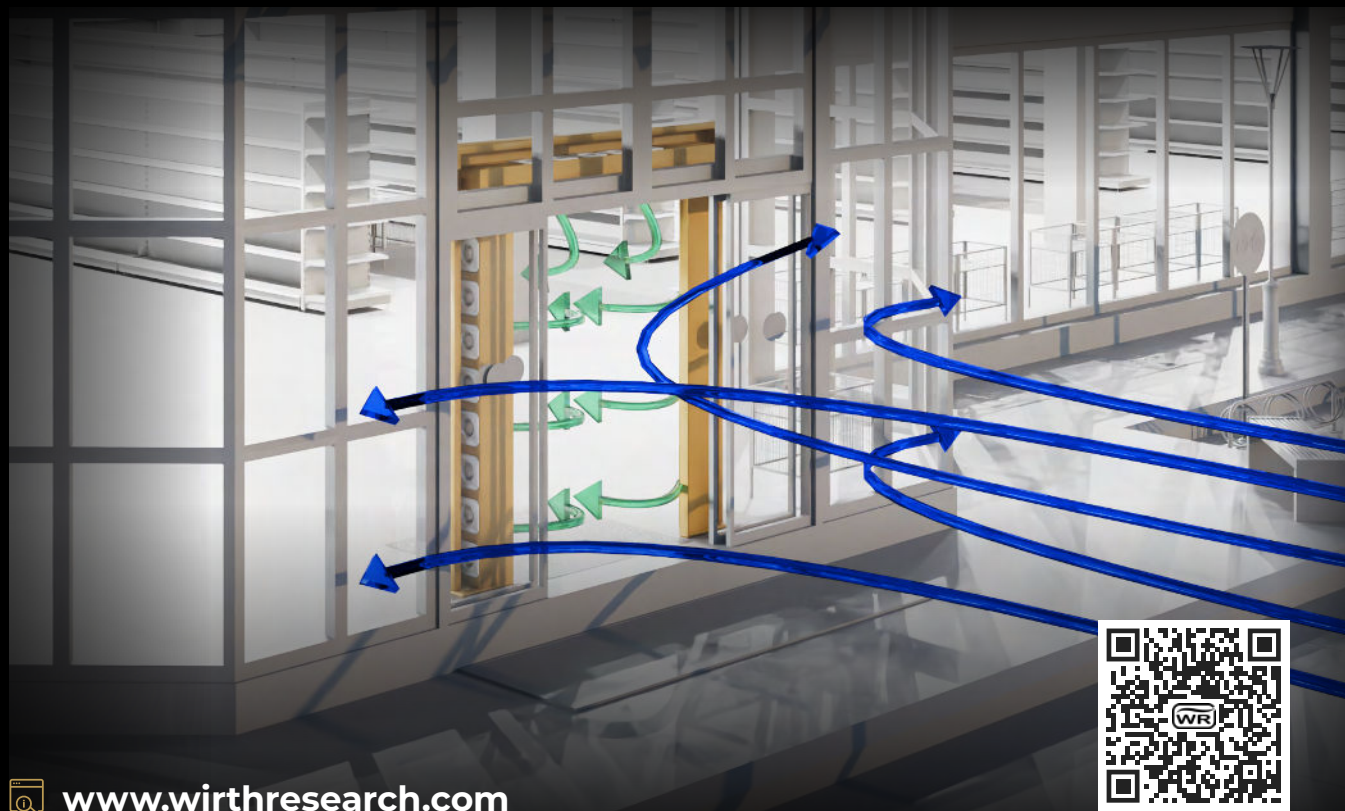


AIRDOOR™

MAXIMISING ENTRANCE EFFICIENCY AND COMFORT

Active air curtain technology increasing protection against wind and weather infiltration to maximise energy efficiency and comfort.



 www.wirthresearch.com



CIBSE BUILDING
PERFORMANCE
AWARD 2023



QUEEN'S AWARD
FOR ENTERPRISE
2022

H&M news

COMMERCIAL
HVAC PRODUCT
OF THE YEAR

the
business
magazine

SUSTAINABLE
TECH COMPANY
OF THE YEAR 2023

30%
SAVINGS

Save up to 30% on
annual gas consumption in
medium-sized supermarkets

95%
LESS ELECTRICITY

95% less electricity
than air curtains

Our award-winning smart AirDoor and AirDoor Pillar technology

improves indoor comfort and safety by minimising wind and weather infiltration — all while consuming up to 95% less electricity compared to traditional air curtains.

“

The store has traditionally suffered from excessive heat loss during the winter due to large door openings and physical location... the savings on energy and the associated carbon emissions have reduced considerably. This is combined with a significant improvement in the indoor temperatures and conditions within the store.

— John Lewis, February 2024



wirthresearch

AIRDOOR™

MAXIMISING ENTRANCE EFFICIENCY AND COMFORT

HOW IT WORKS

- 1 Energy efficient, variable speed fans built into the AirDoor respond to different wind speeds and airflow into the building
- 2 AirDoor creates a protective air barrier stopping outside cold air and weather (including snow, leaves and rain) from entering the building
- 3 Unwanted outside air is directed away from the entrance, improving building comfort and saving energy costs for the building

CORE BENEFITS

- ✓ Reduces cold air infiltration whilst keeping out rain, snow and leaves
- ✓ Extremely low running costs with payback in less than 3 years
- ✓ Saves on HVAC costs with no need for draught lobbies or power-hungry hot air curtains
- ✓ Improved interior climate and comfort
- ✓ Enhanced ESG credentials

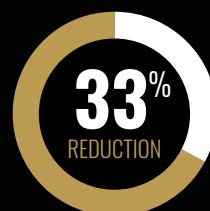
PERFORMANCE



Save up to 30% on annual gas consumption in medium-sized supermarkets



54% electricity savings in small boutique stores



Reduces heat pump size by 33%

TECHNICAL & INSTALL SPECIFICATIONS

- Easy install process that suits all door widths
- Single phase supply
- Pre-install, hardware install, and commissioning works scheduled to suit requirements
- Manufactured in the UK by our partner, VES
- Installation via recommended third parties or working with your incumbent suppliers
- Communication: GSM remote datalink or BMS BACnet IP connection

AIRDOOR VS AIR CURTAINS

Virtually eliminating indoor air escaping and outdoor climate entering, AirDoor delivers performance far above a traditional air curtain and without the power-hungry energy costs or high install costs of a draught lobby

USES

- Supermarkets
- Convenience Stores
- Airports
- Shopping Centres
- Distribution Centres
- Hospitals
- & many more



ABOUT WIRTH RESEARCH

Evolving from a successful history in motorsport, Wirth Research now uses its leading technology in Computational Fluid Dynamics (CFD) and engineering expertise to design energy and cost saving products.

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