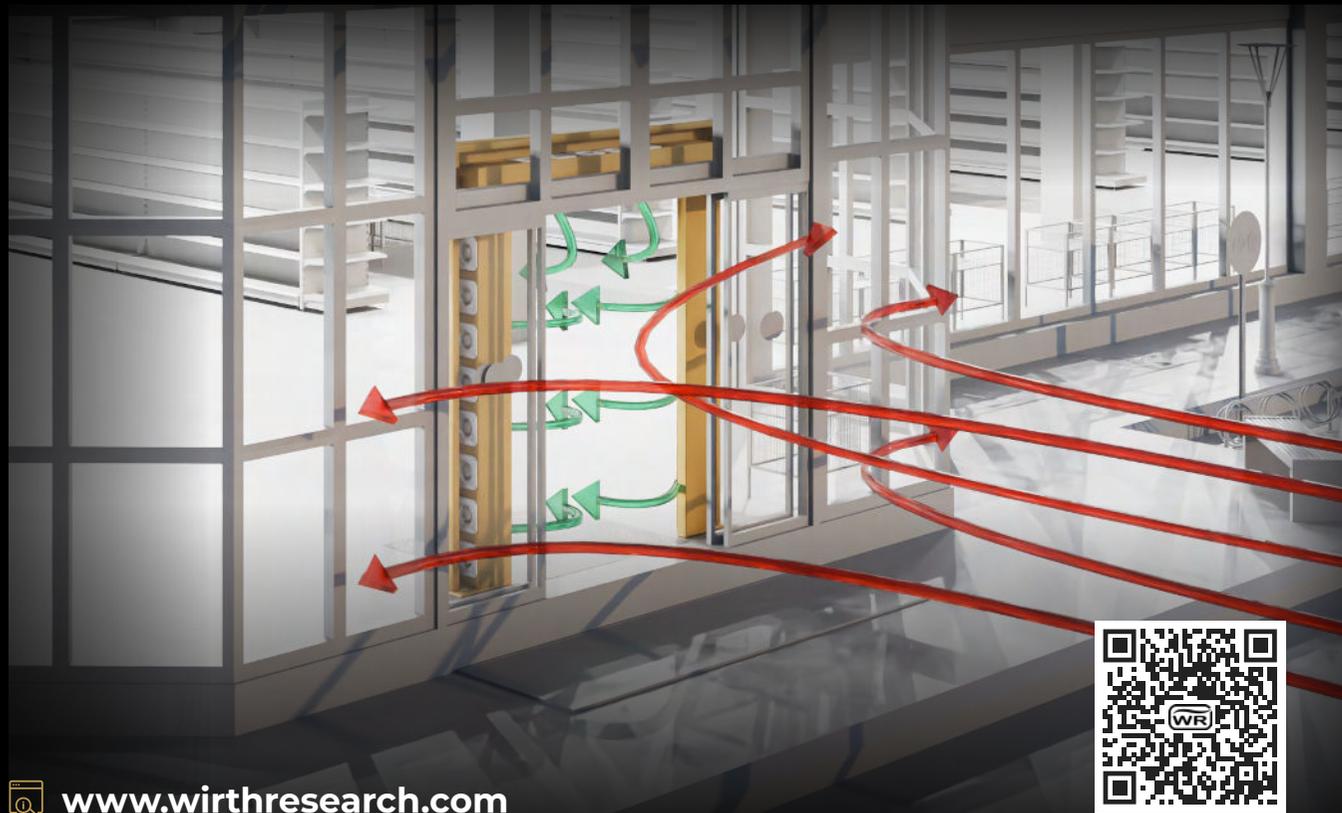


AIRDOOR™

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



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.

“

Wirth Research has reinvented the over-door air curtain, and addressed challenges in a sector where innovation to reduce energy consumption and temperature loss is 'long overdue'.

– CIBSE Awards judging panel, 2023




wirthresearch

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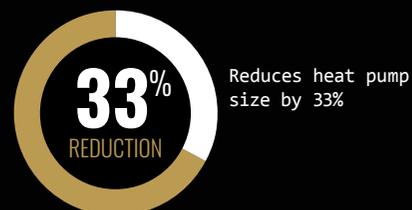
HOW IT WORKS

- 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 hot air and weather (including humidity, rain, pollution, dust and insects) 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 hot and humid air infiltration whilst keeping out rain, dust and insects
- ✓ Extremely low running costs with payback in less than 3 years
- ✓ Saves on HVAC and refrigeration costs with no need for draught lobbies or power-hungry chilled air curtains
- ✓ Improved interior climate and comfort
- ✓ Enhanced ESG credentials

PERFORMANCE



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 CUTAINS

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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