


ECOBLADE & TRUECHILL

REVOLUTIONISING REFRIGERATION TECHNOLOGY

Dual-blade technology for open-refrigeration cabinets that can be retrofitted to reduce energy consumption.

Fully optimised open cabinet refrigeration technology saving energy costs.



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A significant and compelling sustainability initiative that creates positive social, environmental, and/or economic outcomes that produce lasting value for customers, employees, and the industry

– NACS Awards judging panel, 2024

25%
REDUCTION

EcoBlade:
up to 25% reduction in
refrigeration energy

40%
SAVINGS

TrueChill:
40% energy savings

Drawing on our successful motorsport heritage, our **EcoBlade technology** is based on mini wings that maintain temperature and airflow in an open-fronted refrigerator —generating energy savings of up to 20% and reducing food wastage.

Our **TrueChill technology** unlocks the full potential of your chiller cabinets, removing the maintenance cost of doors, providing energy savings of up to 40% and reducing food waste.




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ECOBLADE™ & TRUECHILL™

REVOLUTIONISING REFRIGERATION TECHNOLOGY

HOW IT WORKS

- 1 Chillers blow cold air down from the top of the cabinet. This mixes with the ambient air causing unwanted cold air and energy loss
- 2 Patented, retrofittable EcoBlade attaches to the outer edge of a chiller cabinet shelf
- 3 With an aerodynamic design developed using pinnacle motorsport technology, EcoBlade eliminates cold air spillage

CORE BENEFITS

- ✓ Keeps food fresher for longer, reducing shrinkage (wastage)
- ✓ Immediately measurable energy savings with payback in 1-2 years (EcoBlade) or day 1 (TrueChill)
- ✓ Designed to suit electronic, flat or sloping shelves across dairy, meat, product and beverage
- ✓ Improved customer and associate comfort with no door or barrier costs
- ✓ Enhanced ESG credentials

PERFORMANCE

1m⁺

FEET OF ECOBLADE
installed
worldwide

332m

KWH (777K CO2T)
energy saved
worldwide

7,796

LINEAR METRES
of EcoBlade fitted to
date (Dec 2024)

35,114,630

KWH SAVED
in total to date
(Dec 24)

ECOBLADE VS REFRIGERATION DOORS

Virtually eliminating cold air spill, TrueChill delivers performance in line with a doored cabinet but without the customer barrier or hardware & maintenance costs.

TECHNICAL & INSTALL SPECIFICATIONS

- Simple installation process completed in 1-2 nights
- Can be fitted on a wide variety of shelf types
- Can be refitted for a return on investment of 1 year
- Factory fit option offers even more efficient roll-out process
- Bolt-on and clamp-on options available

USES

- Supermarkets
- Convenience Stores
- Cafes & Restaurants



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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