

Your way into easy  
energy savings

 **Dimplex**commercial<sup>®</sup>

A world of expertise

MARCH 2014



# Energy savings up to 30%

The need to save energy and preserve our planet is all around us. From our personal responsibility to conserve energy to our collective energies to lower our carbon footprint, the need to save energy has never been more compelling.

Dimplex air curtains have been designed with this in mind, delivering real energy savings with low levels of investment, they can and do contribute to lower running costs, greater energy efficiency and a more comfortable environment, attributes appreciated in just about all commercial situations.

## Savings all year round

### Keeping HOT air in

By fitting a Dimplex air curtain over frequently opening entrances, whole building heating costs can be reduced by up to 30% as a result of lower heat levels escaping the building.

### Keeping COOLED air in

In summertime when air conditioning is used to cool the building, a Dimplex air curtain used in ambient\* mode helps to maintain the cool interior climate from escaping the building cutting running costs and improving comfort levels.

\*without heat

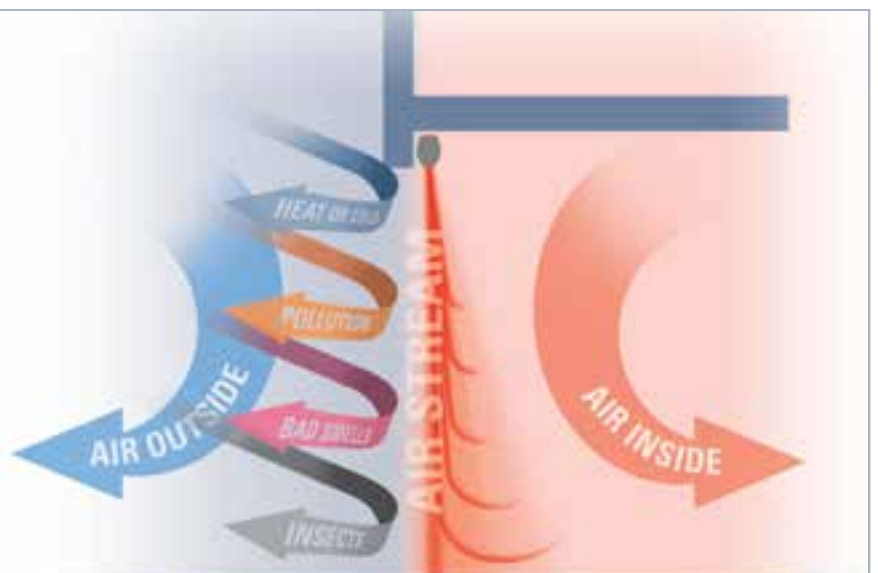
### Freedom of design

Reducing our energy use can often mean the need to change the way we live and work. Air curtains facilitate the way we already work, allowing unhindered access just with added energy savings.

In retail situations, the open door is a welcome to potential customers, in industrial situations frequently opening doors facilitate fast turn rounds for speedy deliveries, and in all buildings open doors can help accessibility for all.

## Air Curtains in action

- Protects against costly heating or air conditioning escaping the building
- Maintaining comfort levels for staff and customers alike
- Safeguarding clear access in and out of the building





# Carbon Reduction Commitment

## What it means to you

The CRC EES scheme is a mandatory carbon reduction programme designed to lower carbon emissions from companies using more than 6000MWh per year through the trading of carbon credits to match output levels.

By lowering energy use and, as a result, carbon emissions, the business lowers its tax burden. The air curtain is one technology able to help with this goal.

In many commercial environments the mass movement of people and goods causes considerable energy losses through opening and closing doors, and it is here that effective air curtains can bring a significant reduction in carbon emissions by boosting the building's energy efficiency. As the building retains more energy, its carbon emissions drop along with the requirement to buy carbon credits, helping to save running cost as well as the planet.

## Six ways to improve your business efficiency



1

### Increased Building Efficiency

Air curtains help cut carbon emissions by reducing energy loss from opening doors, increasing the whole building efficiency.

2

### Reduced CRC Tax Burden

With efficient air curtain systems in place, carbon emissions reduce and the tax burden on the business lowers as a result, helping ease the financial burden.

3

### Reduced Demand for Carbon Credits

With the air curtain contributing to a better carbon footprint, there is less demand to buy carbon credits, saving money.

4

### Increased User Comfort

By protecting occupants from cold draughts, a more comfortable environment will be provided with less reliance on occasional heaters, also cutting heating costs.

5

### Reduced Energy Bills

As the air curtain reduces building heat losses, a corresponding reduction in building HVAC running costs can be enjoyed, year after year.

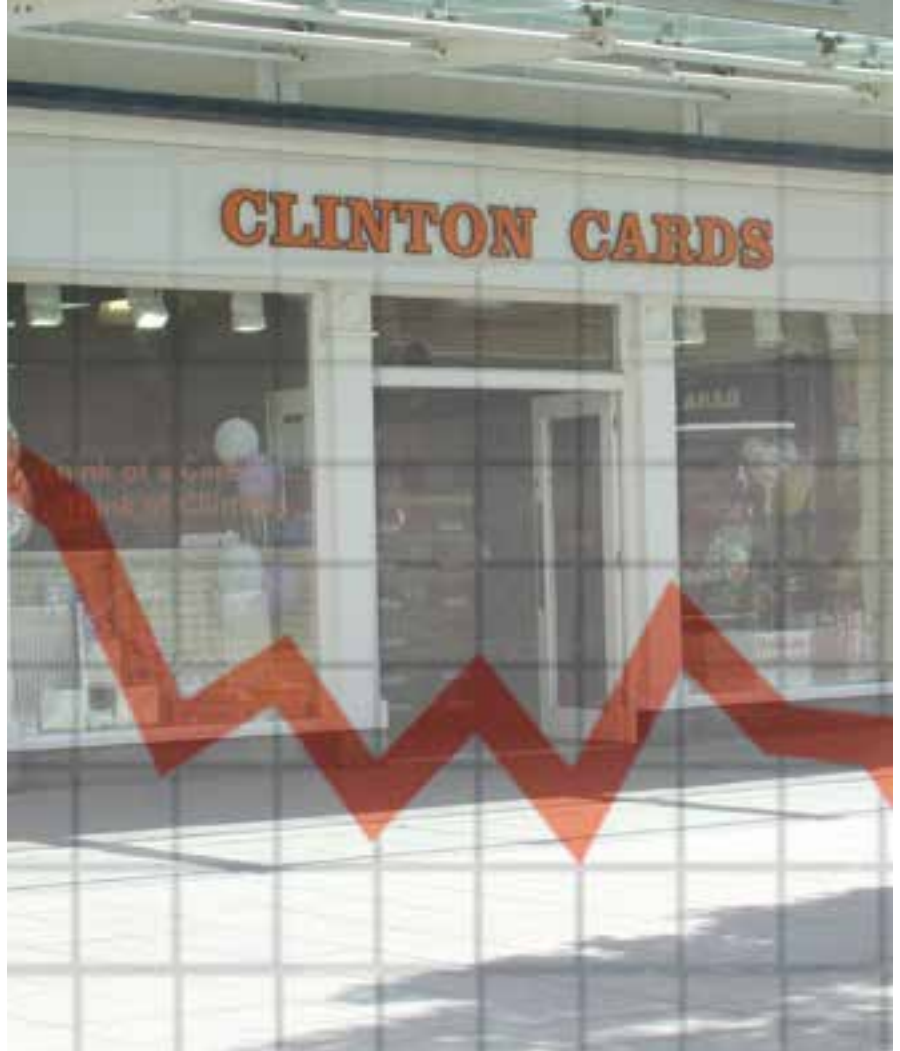
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### Optimised Operations

Air curtains can help busy entrances to work at optimum efficiency by avoiding the need to constantly open and close doors, speeding up critical operations.

# Energy Savings – test proves it

Many traditional air curtains in use today were installed when energy conservation was not a priority and do not have any 'eco' functionality. There is an increasing responsibility on the building owner/tenant to ensure the product used maximises carbon efficiency and minimises running costs. Dimplex air curtains are designed to meet this criteria and the results of a test held in association with Clinton Cards shown below prove this.

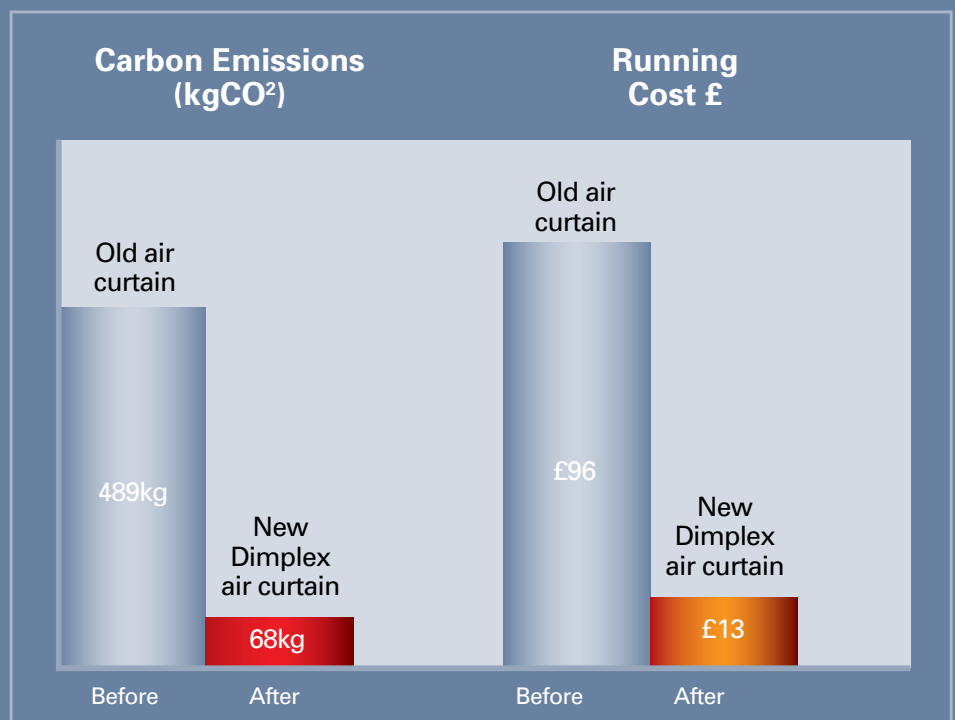


## Saving Energy

By careful installation of the air curtain to fit the open entrance width and height together with using the product's thermostatic regulation to control its eco mode, this test proves how much energy can be saved in operation compared with a typical installation found on the retail high street.

## Cutting Costs

As equipment running costs fall, so do the carbon emissions from the building as a whole. This test shows what is possible by selecting and fitting the correct air curtains. If you would like more details on this test, please contact [marketing@dimplex.co.uk](mailto:marketing@dimplex.co.uk)



By controlling the operation of the air curtain automatically according to the surrounding temperatures, the 'eco' air curtain makes a significant running cost saving over just a short ten day test period. In time, these savings would make an important contribution to the carbon savings from the building.

# Every product gives you energy savings as standard



## Eco installation mode



Where appropriate Dimplex air curtains can be set to permanently consume up to 50% less energy for reduced running costs.

## Thermostat regulation mode



No need for PWM systems that cost the earth. Thermostatic regulation fitted as standard\*\* is the most cost effective way to save energy. Switching heat in and out as conditions dictate without limiting performance.

\*\* model specific

## Dual door control



On double doors where one door remains closed the Dimplex 2m unit can switch off half the air curtain airstream over the closed door for further energy savings.

## Passive infra-red sensor mode



Control the air curtain using a PIR sensor and save energy whenever the air curtain is not needed. Another inexpensive solution from Dimplex.

## Interlocked installation mode



Connect to a compatible HVAC system and save up to 50% running costs as the air curtain modulates according to the HVAC system.

## Interlocked & eco mode



Run the air curtain in eco mode and link to the HVAC system to save up to 97% of running costs.

## Auto door sensor mode



Fitting a door contact to the air curtain electronics will bring auto operation and savings whenever the doors are closed.

## BMS



Connect to a full function BMS system and control according to overall building energy management settings for greater savings.

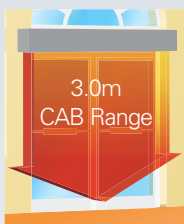
# The Dimplex Range

- Full range for different applications
- Electric, LPHW and Ambient
- Surface and Recess mounting
- Electronic control system
- Wall mounted controls included
- Easy installation features
- Colour coding available



Over door heaters

Provides multi-directional powerful heating above the entrance to shops and small doorways. These units operate up to 2.3m from the floor.



3.0m CAB Range

Offers a curtain of air across entrances up to 3m from the floor. Recess mounted versions available.

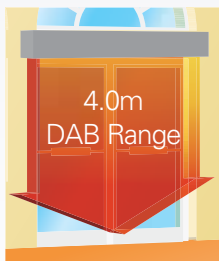


3m and 4m ARC Ranges

Designed for prestigious entrances where style and finish are paramount. Horizontal models are available in a range of appealing finishes for maximum mounting heights of up to 3m and 4m. Additionally, vertical units beside the entrance are also available.

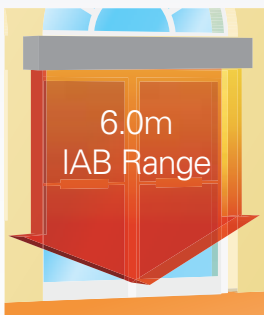


Vertical ARC Range



4.0m DAB Range

Engineered for high output performance over doors up to 4m. These air curtains can also be supplied for recess installations.



6.0m IAB Range

Powerful industrial air curtains for large doors up to 6m high.



Electric



Water



Ambient



Colour customisation available

# Tried and tested solutions

With 60 years' experience, Dimplex has provided heating, air movement and hot water solutions for commercial installations, large and small, across the country. And as you would expect from the market leader we are experienced in working with architects, developers, contractors and builders to provide solutions to suit each installation. Here is a brief overview of a few installations we have completed.



## The Outlet

*Perfect for retail environments, the Outlet shopping village, close to Belfast saw Dimplex CAB & DAB air curtains fitted in Jaeger, Pilot, Julian Graves and Regatta stores, all benefiting from increased customer comfort and energy saving as a result.*



## Staveley Healthy Living Centre

*Heralded locally as a flagship demonstration of how green technologies can be used to benefit of the whole community, the new Healthy Living Centre opted to fit Dimplex ARC architectural air curtains as part of an extensive list of energy saving measures.*



## Giraffe Restaurants

*It takes more than just great food to make a great restaurant, the atmosphere has to be right too! Here, a Dimplex colour coded air curtain was selected to protect the opening entrance from cold draughts while preserving the atmosphere for customers.*



## Complementary Products

Dimplex also offers many other energy saving products to help offset carbon emissions and can also offer the very latest technologies including:

### Heat Pumps

Able to extract freely available heat energy from air, water or ground, these units can provide useable heat even when conditions are as low as  $-25^{\circ}\text{C}$ , returning typical efficiencies of between 300-400%. Models for commercial installations are available.

## Specifications

Dimplex policy is one of continuous improvement; the Company therefore reserves the right to alter specifications without notice. The information contained in this brochure is correct at the time of printing. You are advised to consult your dealer before purchasing.

## Installation Guidance

This brochure is designed to assist you with your choice of Dimplex products and it is not intended as an installation guide.

For safety, products should only be installed by a competent person, in accordance with current regulations and the manufacturers instructions.

## The Dimplex Range

Dimplex offers the widest range of electric space and water heating products in the world – over 400 – to meet almost any heating need. In addition to this publication, we have a wide range of brochures for both domestic and commercial applications. Please visit our website [www.dimplex.co.uk](http://www.dimplex.co.uk) for more information.



Commercial brochure



SmartRad® brochure



Heat pumps brochure



Solar thermal brochure



Quantum® brochure



Hot water cylinders



Towel rail brochure



Electric fires brochure



Designer heating brochure



Solid fuel fires brochure



Range brochure

For more information, please visit [www.dimplex.co.uk/commercial](http://www.dimplex.co.uk/commercial)  
email: [marketing@dimplex.co.uk](mailto:marketing@dimplex.co.uk)  
or call **0844 879 3587**

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A division of the GDC Group Ltd., Millbrook House, Grange Drive, Hedge End, Southampton, SO30 2DF.  
For Northern Ireland please contact – Glen Dimplex NI Limited, Unit No 24, Seagoe Industrial Estate, Portadown, Craigavon, Co. Armagh BT63 5TH

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