

# Thermoscreens Controls.

Discover the power of EcoPower.™



Weather Compensation



Seven-day Timer



Auto Mode



Multi-unit Control



BMS

## Control at your fingertips

An effective control strategy minimizes ownership and operating costs and ensures that heated air curtains maintain a consistent, comfortable temperature at all times. Controlling the fan speed is particularly important. If the velocity is too low, the air stream will be too weak to stop cool air entering the building. If it is too high, turbulence at floor level may result in heat loss.

## Ambient air curtain controls

Unheated air curtains are supplied with a remote EcoPower controller that allows the user to turn them on or off and select the fan speed.

## Heated air curtain controls

Thermoscreens heated air curtains are supplied with the latest generation of EcoPower™ controls, EcoPower v9, which are proven to minimise heat loss and maximise energy savings. EcoPower v9 controls are fully compatible with previous versions and can be used to update the functionality of older air curtains.

## EcoPower remote control and monitoring.

### Ecobus software

Ecobus software allows air curtains to be connected to the Building Management System (BMS) and controlled remotely from a supervisory computer using the Modbus communications protocol.

### Modbus communication

Modbus functionality enables users to switch units on or off, control the heat and fan speed, carry out remote diagnostics, view fault codes, set point adjustments, and monitor trends.

### Seven-day timer

The Ecobus seven-day timer allows users to schedule the time they want their air curtain to come on, and go off, and set fan overrun times.

### EEPROM integrated circuit

The plug-in EEPROM integrated circuit provides even greater flexibility, allowing control strategies to be created for different doorways. An EEPROM programming service is available on request.

### Master-slave configurations

As with previous versions of EcoPower controls, air curtains can be operated in master-slave mode. A single control unit can operate up to eight air curtains.

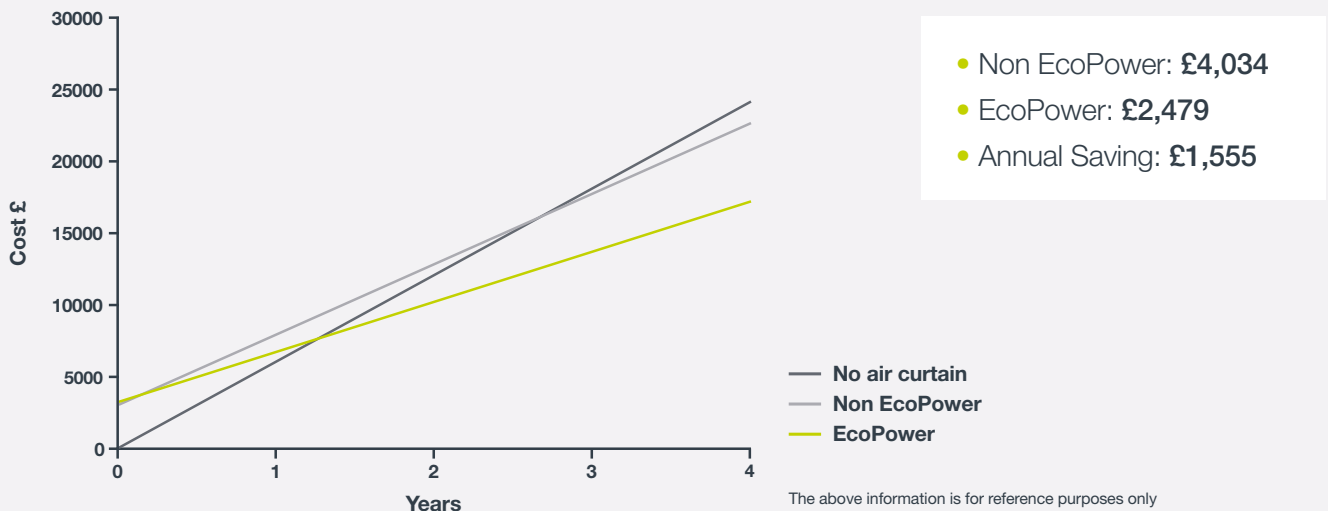




## EcoPower energy savings.

### Take control of your energy

The latest generation of EcoPower controls give users greater control and keeps energy consumption to a minimum.



## EcoPower functionality and settings.

### Basic configuration

The temperature setting can be controlled by the sensor fitted in the air inlet of the air curtain or by the temperature sensor in the EcoPower remote control.

### Auto mode

In auto mode, consistent comfort levels are maintained by the built-in Thermistor thermostat, which constantly monitors the room temperature or inlet air temperature.

### Simple weather compensation

The EcoPower controller can be easily configured to work with an external thermostat. Simple weather compensation provides winter and summer settings. In winter mode, the controller regulates the heat output. In summer mode, heating is automatically disabled. The remote control is used to adjust fan speeds.

When used with an external thermostat, the controller automatically turns the air curtain on and off when the outside temperature falls below or rises above the selected setting.

### Advanced weather compensation (HX series only)

Advanced weather compensation automatically adjusts the leaving air temperature based on the outside air temperature giving considerable energy savings. The EcoPower controller can also be configured to modulate the control of the heating elements or water control valve. This provides even greater control of the heat output and increases energy savings compared to traditional Hi/Low output control.

### Door switch control

EcoPower controls can be used with a door limit switch for lightly trafficked doorways to maximise energy efficiency. When the door is opened the fan speed increases. When the door is closed the speed is reduced, or the unit is turned off completely.

### User memory settings

New controllers are set to retain user settings as standard, so settings are automatically restored if there is a loss of power.



## EcoPower safety and convenience.

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### Electronic Thermal Cut-Out

This will automatically cut the power supply to the heating elements in the event of low, or no airflow, reducing this risk of overheating. All electrically heated air curtains manufactured from 2015 onwards are fitted with an electronic Thermal Cut-Out (TCO). The TCO can be reset remotely using the EcoPower controller without having to access the air curtain.

### Auto reset

If the TCO should trip the LEDs on the EcoPower remote control flash on and off. To reset the TCO all you have to do is switch off the electrical supply to the air curtain and allow 10 minutes for it to cool down. Then turn the power back on and press the Auto button on the EcoPower remote control four times.

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## Spares and accessories.

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The following EcoPower spares and accessories are available

- Modulating control Kit: HX water
- Modulating control Kit: HX Electric
- Outdoor temperature sensor
- Modbus BMS board
- Ecobus Modbus software
- Water valve modulating control board
- Modulating water valve
- Door switch

## Your environment is our expertise.

Thermoscreens were one of the pioneers of modern air curtain technology, and we remain at the forefront of its evolution today. Our sales team work hand-in-hand with an international network of distributors, providing solutions to customers of all types and sizes, in more than 50 countries. Across the globe, our name is synonymous with the highest quality standards; our products renowned for their energy efficiency, reliability and ease of use.

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