

# Thermoscreens Controls.

Discover the power of EcoPower.™

## Control at your fingertips

An effective control strategy minimises 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. The Thermoscreens touch controller is available as standard with all air curtains.

## Touch control.



### Clear Visibility

The LCD screen allows for clear visibility of the air curtains current settings. The flush, back-lit buttons allow for easy access to the menu, change of fan speed and desired indoor room temperature.

### Keypad Lock

The controller can be locked to prevent any unwanted changes being made to the unit settings. Ideal for installations in public places such as coffee shops or restaurants.

### Seven-day timer

The 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. The 5+2 day timer allows the use of a week and weekend setting to change the set temperature for those days. The 24hr timer will allow the user to change the temperature set point for a 24hr cycle.

### Leader-Follower configurations

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

### Companion App

Remote connectivity is available through a mobile device application which can be downloaded for Android™ and Apple® devices through Google Play™ or App Store® at no additional cost. Once connected to the network the controller can then simply be linked to the App. From here the user can remotely update the settings on the air curtain and be alerted to any faults.

### Even smarter than you think

Smart devices such as Amazon Alexa and Google's home hub can be linked to the App, allowing for voice commands to be used and routines to be established.





## Infrared Controller.

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### Fan Speed

The Thermoscreens IR controller can control the fan speed, allowing the user to choose from low, medium or high fan speed.

### Controls

Using the IR remote you can switch the unit on and off and change the fan speed and heat setting from up to 10m away.

### Auto Button

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

### 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.

### Easy Installation

Installation is easy, with an IR eye to receive the commands on a flexible 1.5m lead that can be positioned to suit your installation.

## BMS Connectivity.

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### 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 or BacNet communications protocol.

With the purchase of our BacNet/Modbus connectivity boards, our air curtains can be seamlessly integrated into the building management systems on site. This connectivity will allow you to enable or disable the units, change fan or heat settings and allow you to remotely see if the unit has gone into fault mode.



## 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.

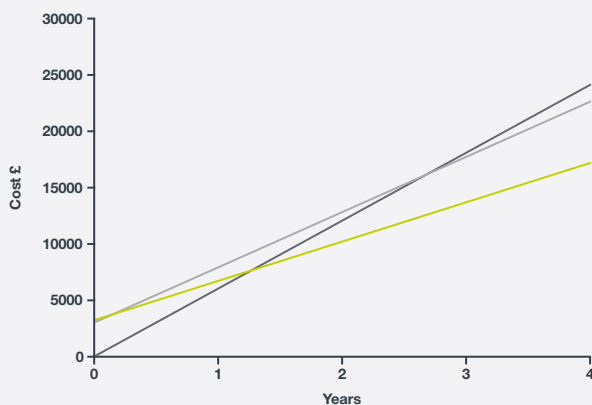
### User memory settings

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

## EcoPower Auto energy savings.

### Take control of your energy

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



- No air curtain
- Non EcoPower
- EcoPower

The above information is for reference purposes only

- Non EcoPower: **£4,034**
- EcoPower: **£2,479**
- Annual Saving: **£1,555**

## EcoPower safety and convenience.

### 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.



Thermoscreens Controllers - Comparison		
Features	Touch Controller	Infrared Controller
Variable Fan speed controls	X	X
Heat output controls (Water & Electric units only)	X	X
Auto/Manual Modes	X	X
Easy Installation	X	X
ModBus/BacNet connectivity	X	X
7 day timer	X	X
5+2 Day Timer	X	
24-Hour Timer	X	
Companion App for easy control	X	
Clear LCD Touch Screen	X	
Keypad lock	X	
Multi-unit control	X	
Can be used with smart devices	X	
Can remotely control the unit from up to 10m away	X	X

Air Curtain Compatibility			
Air Curtain	Touch Controller	Infrared Controller	Door Switch
C Series	X		
C Series Designer	X		
Compact 2 Series	X		
T Series	X		
PHV Series	X		
PHV Series Vertical	X		
PHV Series Designer	X		
HP Series	X		
IP2 Series	X		
CS			X
RA			X
HE			X
T600/800	X		
HX2	X		

## Spares and accessories.

The following EcoPower spares and accessories are available

- Modulating control Kit: HX water - T7263628
- Modulating control Kit: HX Electric - T7263628
- Outdoor temperature sensor - T7263670
- Modbus BMS board - T7263627
- BacNet/Modbus software - thermoscreens.innovodesign.co.uk
- Water valve modulating control board - T7263628
- Modulating water valve - T7263628
- Door switch - T7260210
- Touch Controller - T7263639
- Infrared Controller - T7264060

## 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.

