# GUARDIAN EC™



## COMMERCIAL AIR CURTAINS

### PRODUCT GUIDE – RECESSED

REZNOR®

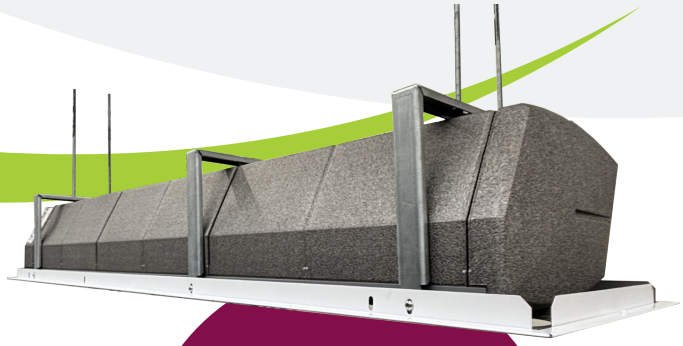
REZNOR®

GUARDIAN EC
**AIR CURTAINS**

# KEEP COMFORT IN.
# KEEP ENERGY COSTS DOWN.

## Smart efficiency, quieter performance, seamless control.

The GUARDIAN EC™ Air Curtain is a smart, high-performance air curtain designed for modern commercial buildings, combining advanced EC fan technology with intelligent airflow and heating to maintain indoor comfort and cut energy use. Suitable for mounting heights up to 4m, it delivers quiet operation and precise control via touchscreen or smartphone app, providing a barrier that prevents the ingress of outdoor air even at the busiest entrances while meeting the latest European Ecodesign standards.



experience up to
**30% less**
energy use
than AC fans

## Model Range

**STANDARD:**
Recessed

**LENGTHS:**
1m, 1.5m, 2m

## Types

- Electric heated (3-phase to heater)
- Ambient (non-heated)
- Low-temperature hot water

**Finish:** RAL colours available upon request.

## Features & Benefits

- Airflow: 2,000–4,800 m³/hr
- WiFi touchscreen & smartphone app
- Quiet, lightweight, low maintenance
- Easy assembled recessed kit with integrated inlet and outlet sections
- Alternative to gas technology
- Made from recyclable materials*

## Installation

- Designed for flush ceiling integration
- Can be surface mounted temporarily and recessed later
- Supporting fixtures must be sized for full operating weight for safe and reliable installation.

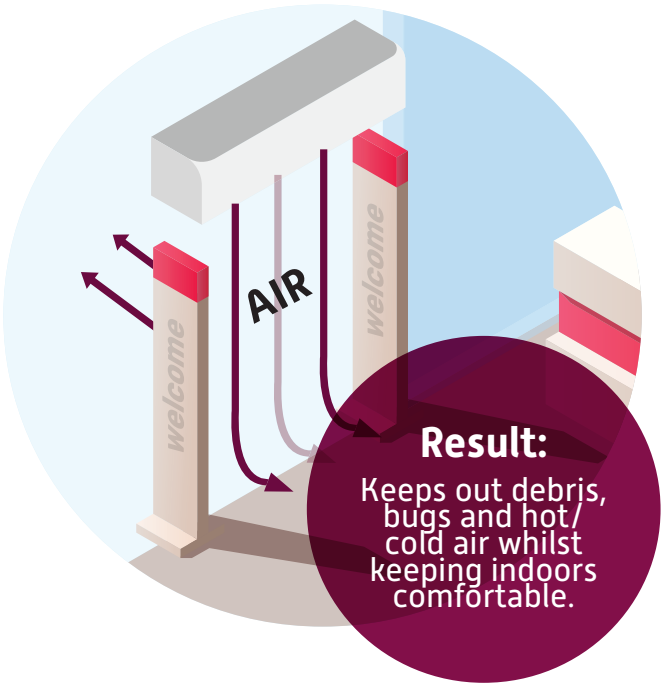
## Options & Accessories

- Magnetic door switch
- LTHW water control valve
- Splitter box allowing control of up to 10 units

**ADVANCED HEATING TECHNOLOGY**

- 3-phase PTC ceramic heating element
- Self-regulating heat output
- Improved energy efficiency
- Fast, responsive warm-up
- Enhanced safety and extended service life.

**Safe, efficient heating** optimised for peak and off-peak use.







## Intelligent WiFi Controller

Smart automation maintains consistent comfort and optimises energy use:

- Controls up to 3 units
- Touchscreen
- Built-in temperature sensor with frost protection
- Heating, free cooling & ventilation modes
- Weekly time operation (5/1/1 days)
- Auto/Manual multi-speed fan
- BMS-MODBUS compatible
- Full monitoring via TUYA SMART app

## Applications

- Supermarkets & large retail spaces
- Car showrooms & service stations

## Operation

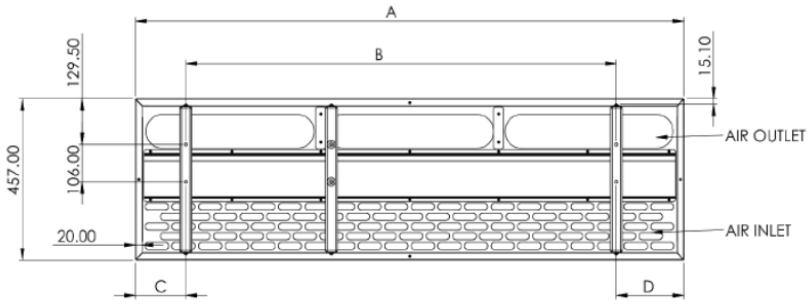
Adjust fan speed, valves and actuators (LTHW versions only) based on indoor temperature, increasing airflow when rooms are cold and reducing it as the setpoint is reached.

# Technical Data

| TYPE | AIR CURTAINS WITH WATER HEATER | | | AIR CURTAINS WITH ELECTRIC HEATER | | | AIR CURTAINS WITHOUT HEATER | | |
|---|---|---|---|---|---|---|---|---|---|
| | GREC1000W | GREC1500W | GREC2000W | GREC1000E | GREC1500E | GREC2000E | GREC1000A | GREC1500A | GREC1500A |
| Unit Length | 1m | 1.5m | 2m | 1m | 1.5m | 2m | 1m | 1.5m | 2m |
| Effective Range | 4m | 4m | 4m | 4m | 4m | 4m | 4m | 4m | 4m |
| Heat Output Range | 10-16 kW | 20-29 kW | 25-40 kw | 4-7 kW | 6.5-11 kW | 8.5-14 kW | - | - | - |
| Max. Air Output | 2000 $m^3/h$ | 3600 $m^3/h$ | 4800 $m^3/h$ | 2000 $m^3/h$ | 3600 $m^3/h$ | 4800 $m^3/h$ | 2100 $m^3/h$ | 3700 $m^3/h$ | 5000 $m^3/h$ |
| Diameter of Connection Nozzles | 1/2" | 1/2" | 1/2" | - | - | - | - | - | - |
| Supply Voltage (V/Hz/A) | 230/50 1.4 A | 230/50 1.8A | 230/50 2.4A | 3x400/50 14A | 3x400/50 21A | 3x400/50 27.5A | 230/50 1.4 A | 230/50 1.8A | 230/50 2.4A |

Additional technical data can be found in the product manual.

# Dimensions




| ITEM | DESCRIPTION | AIR CURTAINS LENGTH | A | B | C | D |
|---|---|---|---|---|---|---|
| GREC1000* | Guardian EC Air Curtain with Recessed Kit and Controller | 1000 | 1125 | 857 | 93.20 | 174.90 |
| GREC1500* | Guardian EC 1500 Air Curtain with Recessed Kit and Controller | 1500 | 1650 | 1295 | 151.50 | 203.50 |
| GREC2000* | Guardian EC 2000 Air Curtain with Recessed Kit and Controller | 2000 | 2177 | 1712 | 226.90 | 235.60 |

*Electric, ambient and LPHW options available.
All measurements are given in mm.

Fan speed performance is impacted by clearance distances, refer to installation manual for further details.

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