

# GUARDIAN EC™



## COMMERCIAL AIR CURTAINS

PRODUCT GUIDE

**REZNOR®**



View in 3D

# 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.



**30%**  
**less**  
energy use  
than AC fans

## Model Range

### STANDARD:

Surface-mounted

### LENGTHS:

1m, 1.5m, 2m (also vertical mountable)

## Types

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

**Finish:** RAL 9006

## Features

- Airflow: 2,000–4,800 m<sup>3</sup>/hr
- WiFi touchscreen & smartphone app
- Quiet, lightweight, low maintenance
- Simple installation
- Alternative to gas technology

## Applications

- Supermarkets & large retail spaces
- Car showrooms & service stations
- Sports and show halls
- Exhibition venues

## Options & Accessories

- Horizontal and vertical mounting brackets
- 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.

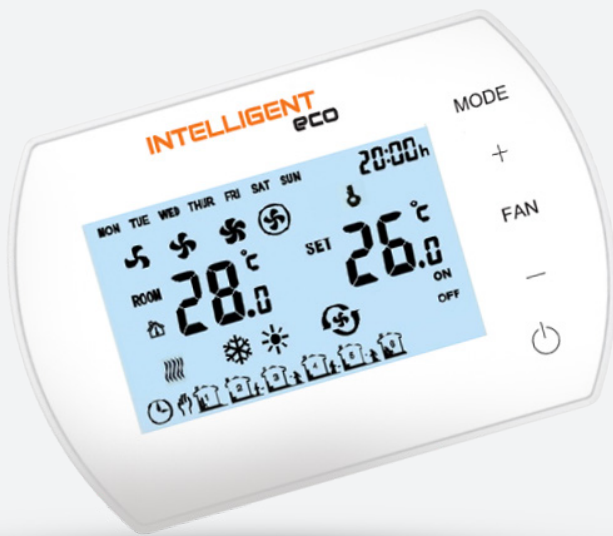


**Safe, efficient heating**  
optimised for peak and  
off-peak use.



### **Result:**

Energy-efficient,  
quiet performance  
in commercial  
spaces.



## Intelligent WiFi Controller

Smart automation maintains consistent comfort and optimises energy use:

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

## Operation

Adjusts fan speed, valves (LTHW models only), and actuators based on indoor temperature, increasing airflow when rooms are cold and reducing it as comfort is reached.

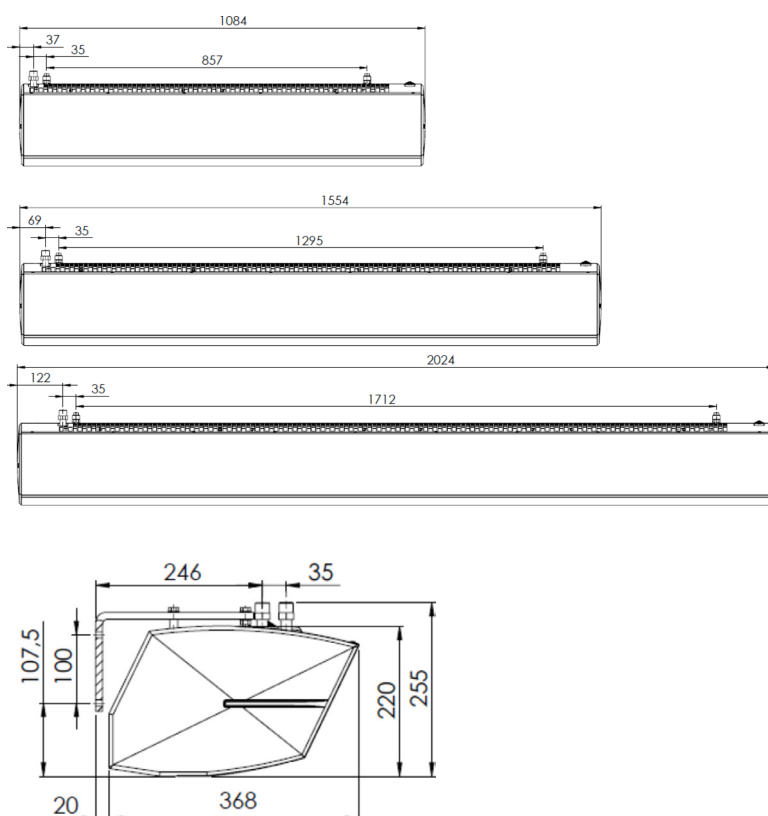
# Technical Data

TYPE	AIR CURTAINS WITH WATER HEATER			AIR CURTAINS WITH ELECTRIC HEATER			AIR CURTAINS WITHOUT HEATER		
	GSEC1000W	GSEC1500W	GSEC2000W	GSEC1000E	GSEC1000E	GSEC2000E	GSEC1000A	GSEC1500A	GSEC1500A
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 m³/h	3600 m³/h	4800 m³/h	2000 m³/h	3600 m³/h	4800 m³/h	2100 m³/h	3700 m³/h	5000 m³/h
Diameter of Connection Nozzles	1/2"	1/2"	1/2"	-	-	-	-	-	-
Supply Voltage (V/Hz A)	230/50 1.4 A	230/50 1.8 A	230/50 2.4 A	3x400/50 14 A	3x400/50 21 A	3x400/50 27.5 A	230/50 1.4 A	230/50 1.8 A	230/50 2.4 A

Additional technical data can be found in the product manual.

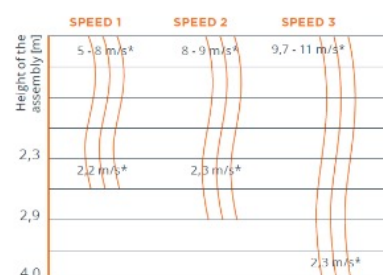
## Dimensions

GUARDIAN EC 1000-1500-2000 W,E, A CURTAINS

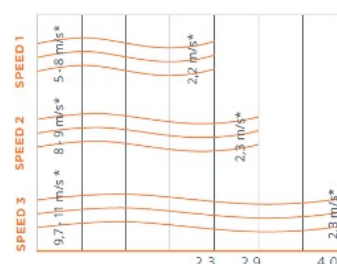


## Technical Performance

HORIZONTAL AIRFLOW RANGE  
(max range for horizontal installation)



VERTICAL AIRFLOW RANGE  
(max range for vertical installation)  
+ air flow speed



**REZNOR®**

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