

# Sonniger Guard Commercial Air Curtain



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# Sonniger Guard - Commercial Air Curtain



## PRODUCT DESCRIPTION

High quality at competitive prices. Designed to minimise heat loss and establish a protective barrier at entrances, these air curtains are perfect for shops, hotels, commercial offices, reception areas, and sports centres.

The 'Guard' range offers three distinct models, each available in lengths of 1m, 1.5m, and 2m: the Guard 'W' for those seeking a hot water-fed (LPHW) solution, the Guard 'E' for a reliable electric option, and the Guard 'C' for an ambient air/fan only choice where no extra comfort heat is needed.

Each unit includes brackets for straightforward installation, ensuring your building remains welcoming and energy-efficient.

## FEATURES

- Modern Design & High Performance Parameters
- Models delivering 7kW-35kW heat output
- Models delivering airflow from 2000-4,800 m<sup>3</sup>/hr
- 3 fan speed settings
- Up to 4m mounting height & air throw for ambient air models
- Up to 3.5m mounting height & air throw for LPHW & electric models
- Mounting brackets for horizontal installation included
- Brackets available for vertical mounting
- Units can be used in tandem for larger openings
- Flexible Control Options
- BMS module available
- Failure rate of only 0.39%
- Noise levels found below in technical specifications

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## TECHNICAL PARAMETERS

Model	Unit Length (m)	Heat Output (kW)	Max Air Flow (m <sup>3</sup> /hr)	Fan Consump (A) on 230V single phase supply	Fan Motor Power (kW)	Electrical Element Consump (A) on 400V 3-phase supply	Max Noise Level (db(A))	Max install height (m)	Protection Class (IP)
Guard 100W water fed (LPHW)	1	10-16 *	2,000	1.95 A	0.22	-	59	4	IP21
Guard 150W Water-fed (LPHW)	1.5	20-29 *	3,600	2.6 A	0.32	-	61	4	IP21
Guard 200W Water-fed (LPHW)	2	25-40 *	4,800	2.6 A	0.32	-	62	4	IP21
Guard 100E Electric	1	4-7	2,000	1.95 A	0.22	11 A	59	4	IP21
Guard 150E Electric	1.5	6.5-11	3,600	2.6 A	0.32	16.6 A	61	4	IP21
Guard 200E Electric	2	8.5-14	4,800	2.6 A	0.32	22.4 A	62	4	IP21
Guard 100C Ambient-air	1	-	2,000	1.95 A	0.22	-	59	4	IP21
Guard 150C Ambient-air	1.5	-	3,600	2.6 A	0.32	-	61	4	IP21
Guard 200C Ambient-air	2	-	4,800	2.6 A	0.32	-	62	4	IP21

## ASSEMBLY & INSTALLATION

Before mounting the unit, take into consideration the following:

- accessibility/easy access for any servicing and maintenance works
- access to water and electrical installation
- possibility to mount the curtain directly at the entrance

It is advisable to mount the device to the wall or the ceiling above the doorway on supporting mount pins or supporting constructions ( shapes and dimensions of the supporting construction may be individually designed in compliance with durability and strength requirements).

Pay special attention to proper leveling of the device. If the device is not placed in a horizontal or vertical position, it may result in damage to the fan and consequently malfunction of the device. The airinlet and outlet must not be blocked by any objects. While installing the unit, remember to provide easy access to the control panel. A few curtains of the same type may be installed in case of a bigger doorway. They must be assembled side-by-side to make an uninterrupted stream of air. The curtain is mounted horizontally or vertically for permanent (on the left/right side of the doorway). The GUARD PRO air curtain is advised to be wider (in case of horizontal mounting) or higher (in case of vertical mounting) than the gate way.

If you decide on ACTIVE PROTECTION system, which is the assembly of curtains with water exchanger and without one, you have to mount air curtains with water exchangers on the bottom. When connecting the curtain, make sure that maintenance work is possible to be conducted. On both connection nozzles manual shut-off valves should be installed in case of the necessity of disconnecting the unit. The hot water medium supply must be connected in accordance with the marking on the casing (inlet/outlet). When pipes being screwed to the heat exchanger make sure you secure the inlet connection of the heater to protect it against the torque (that may cause leakage in the heat exchanger). The connections of heating medium with the threaded nozzles DIN 3/4" should be based on the project carried out by an authorized designer. In case of connecting the curtain to the heating network with no mixing module, a water filter must be installed.



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