

Sonniger GuardPro Industrial Air Curtain



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Sonniger GuardPro - Industrial Air curtain



PRODUCT DESCRIPTION

GuardPro Industrial Air Curtains are designed to minimise heat loss in high traffic areas by maintaining a protective barrier at the entrance to the building or between two areas of different temperatures.

Powerful fans deliver airflow up to 7.5m. A modular design approach enables coverage of wide openings based on 1m & 2m lengths. Vertical or horizontal installation.

This 'GuardPro' Range comes in 3 types each with length options of 1.5m & 2m. The GuardPro 'W' is the hot water-fed (LPHW) range. The Guard Pro 'E' is the electric range and the GuardPro 'C' is the ambient air/fan only range for entrances where no additional comfort heat is required.

Suited to installation at entrances to large retail centres & shops, building reception halls, sports halls, loading/unloading bays in supermarkets, hotels, factories & warehouses etc. with lots traffic coming and going.

Modular design concept – two or more units can be used side by side to cover large entrances, in both vertical or horizontal orientation.

The Air curtains use a set of high-performance fans with a diameter of 450mm, which in combination with the appropriate and optimally selected shape of the air flow ducts has allowed a long range of air stream up to 7.5m. The universal design of the device allows the use of the same modules both vertically and horizontally.

FEATURES

- Electric, LPHW & no heat 'ambient air' options
- Electric models – PTC electric heating elements
- Modern & innovative modular design approach
- Combine 1.5m & 2m lengths for wide openings
- Horizontal or vertical orientation
- High performance fans – throw up to 7.5m
- Aluminium Grey powder coated as standard
- Flexible Control options

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PURPOSE OF GUARDPRO AIR CURTAINS

The industrial air curtain range is intended to be used in areas with a moderate to cold climate, in spaces where temperature ranges from -15 to +40°C and with relative humidity up to 80% (at the temperature of +25°C), in conditions free from external factors such as pollens, hydrometeor (horizontal precipitation) and chemical vapors.

The GUARD PRO industrial air curtains are designed to protect against heat losses in the gateways of buildings of medium and high capacity especially such as the following:

- Warehouse and production areas,
- Loading/unloading sections in supermarkets and large commercial premises,
- Car showrooms and service stations,
- Exhibition centres

TECHNICAL PARAMETERS

		Water-fed (LPHW)	Water-fed (LPHW)	Electric	Electric	Ambient Air	Ambient Air
		GuardPro 150W	GuardPro 200W	GuardPro 150E	GuardPro 200E	GuardPro 150C	GuardPro 200C
Length	(m)	1.5	2.0	1.5	2	1.5	2.0
Heat Output*	(kW)	24*	34*	14	21	-	-
Max Airflow	(m ³ /h)	6,500	9,000	6,700	9,100	5,800	9,200
Fan Input/Consump	(V/Hz & A)	230/50 2.4A	230/50 3.6A	230/50 2.4A	230/50 3.6A	230/50 2.4A	230/50 3.6A
Fan Motor Power	(kW)	0.50	0.75	0.5	0.75	0.50	0.75
Electrical Element Consump	(V/Hz & A)	-	-	400/50 17A	400/50 29A	-	-
Noise level	dB (A)	59	61	59	61	59	61
Weight with/out water	(kg)	46/44	62/60			n/a/37	n/a/51
Protection class	IP	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54

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 air inlet 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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