

# REZNOR®

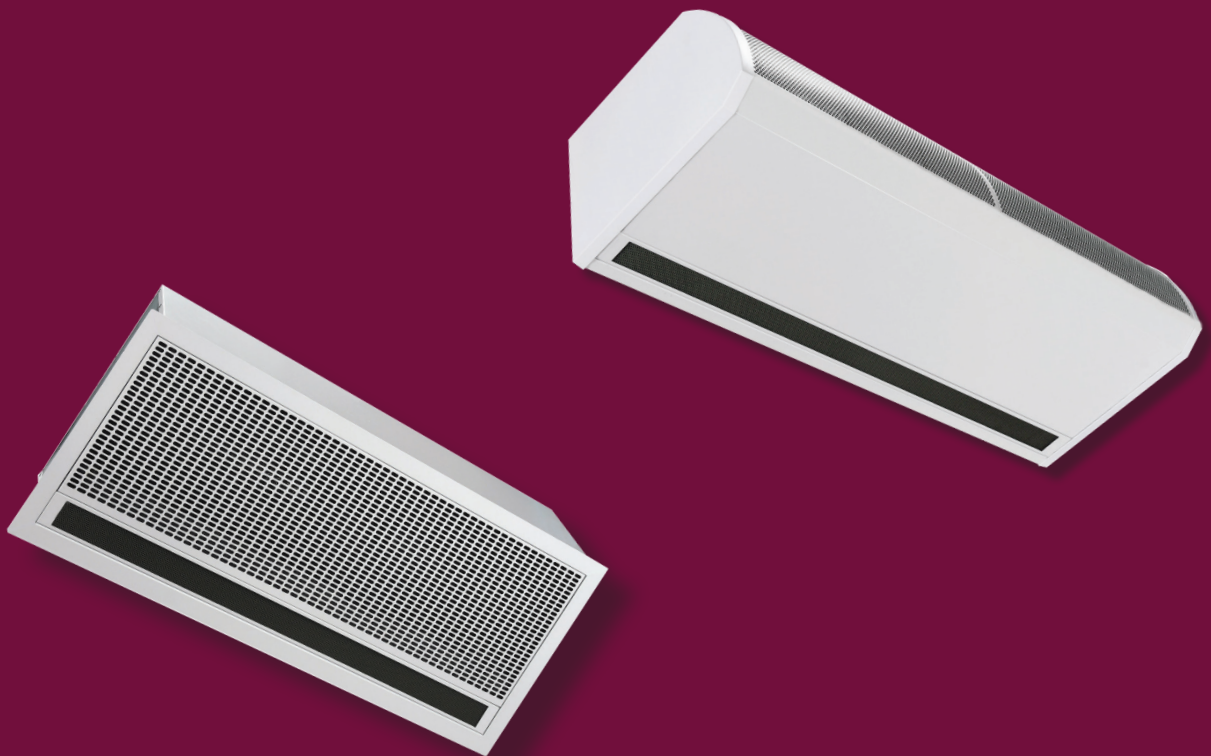
Trusted Heating Solutions

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## Guardian

Commercial Air Curtains  
with Signal Pro Controller

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# Guardian Series

## Commercial / Retail Air Curtains

The Guardian Series is a range of commercial/retail air curtains, designed to be effective, efficient and aesthetically pleasing when wall mounted, recessed within a false ceiling, fitted in a bulkhead or on drop rods in front of glass fronted entrances.

The surface mount model offers an illuminated emergency exit sign as an option.

### Model Range

The Guardian range consists of three models GS (surface mounted), GR (recessed) & GB (bulkhead) each available in 1.0m, 1.5m & 2.0m lengths. A vertical version (GV) in 2.0m and 2.5m heights is also available.

Each model is available as:

- Ambient (non-heated)
- Electric heating
- Low temperature hot water heating

Each model is fitted, as standard, with a three speed fan. Electric heating models include energy saving features. A Signal Pro remote control panel is supplied allowing full control of the air curtain including setting the required temperature (LPHW & Electric heating models) and three pre-selected fan speeds.

Electric heated versions require a three phase (415v) electrical supply, whilst all other versions use a single phase (230v) supply.

Standard colour is white (RAL9003). Alternative colours are available, at an additional cost, to order.

### Options

- Illuminated emergency exit sign (GS)
- Wall mounting bracket (GB/GS)
- Surface mounting casing (GR)
- Outside air sensor (GB/GR/GS)
- Door switch magnet set (GB/GR/GS)

### Applications

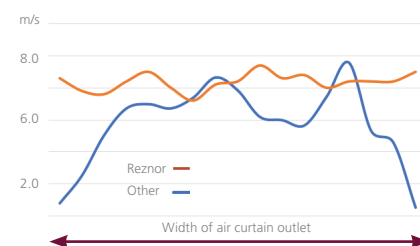
- Bars
- Hotels
- Offices
- Restaurants
- Shops
- Malls

### Superior Performance

Guardian air curtains are fitted with a Honeycomb outlet, as opposed to a conventional outlet grille. The Honeycomb outlet provides superior performance by ensuring a uniform distribution of air, across the whole width of the outlet.



The graph below, shows the uniform velocity experienced across the outlet of a 1.5m wide Guardian air curtain, versus a competitors model using a conventional outlet grille.



(Measurements are taken with air curtain fan speed set to standard performance)

## Features & Benefits

- Reduces heat loss around open doors by up to 80%
- Suitable for mounting heights of three or four metres depending upon application
- Energy saving controller fitted to all electric heat versions
- Good aesthetic appearance
- Honeycomb outlet
- Easily serviced
- Standard or high capacity performance from single model
- Rapid response electric heating coils
- CE approved
- Cost-effective heating solution
- Units can be placed side by side to form a continuous unit

### Control

All models are supplied with a Signal Pro loose controller and 10m length of RJ45 communication cable.

### Features

- Simple installation - wiring via a plug and play cable and connections are direct to the controller so no intermediary terminal blocks are required
- Easy programming - users merely select whether they require the heat on or off (not ambient models), the required fan setting (1,2 or 3 speed), and the outlet temperature setting
- BMS compatible via Modbus communication
- Maintains constant outlet temperature at required room setting with tolerance for countering air curtain velocity (not ambient models)
- Air outlet sensor mounted within the air curtain to enable accurate room set temperatures (not ambient models)

- Can be linked to optional external thermostat for proportional control in various set temperatures

### Benefits

- Energy saving - intelligent controller monitors set temperatures to ensure that once reached the unit merely modulates to maintain temperature
- Cost savings - no specialist commissioning required
- Reduced payback period on investment thanks to the significant energy savings generated
- Easier installation between air curtain and control panel - via plug and play 24V Belden 8132 cabling (various lengths available)
- Centralised control - units can be mounted up to 100m from the air curtain
- Network control of up to 16 air curtains from one control panel

- Discrete appearance - the moulded plastic, slimline touch pad compliments most modern interiors and can be fitted into a standard (recessed) 2 gang electrical wall socket housing
- Enhanced security - all units can be security coded to prevent unauthorised access

Signal Pro Controller (supplied loose)



Optional external sensor



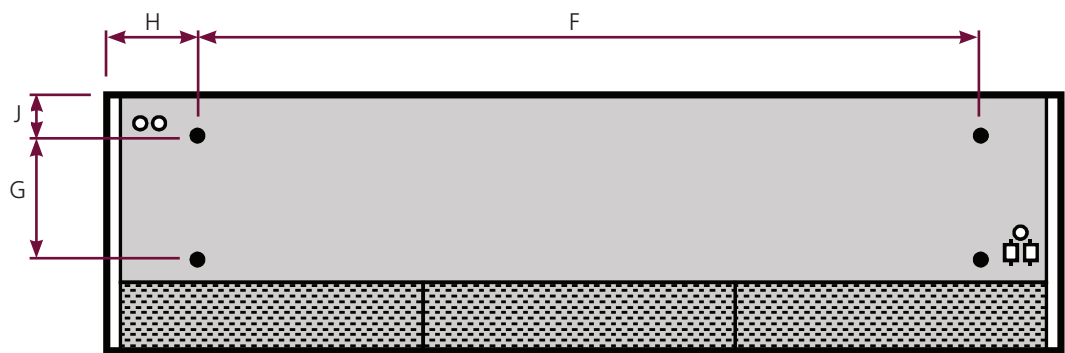
### Technical Data

		Low Speed			Medium Speed			High Speed		
All Models		1000	1500	2000	1000	1500	2000	1000	1500	2000
Maximum door width	m	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.5	2.0
Maximum mounting height	m	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0
Maximum air volume	m³/h	1,150	1,730	2,300	1,440	2,268	2,880	1,800	2,700	3,600
Maximum velocity	m/s	6.4	6.4	6.4	8	8.4	8	10	10	10
Motor power	W	365	530	730	365	530	730	365	530	730
Noise level @ 3m free field	dB(A)	52	52	52	55	55	55	59	59	59
<b>Ambient Models (Unheated)</b>										
Electrical supply		230V 1ph 50Hz								
Total electrical load	A	1.17	1.52	2.32	1.29	1.74	2.65	1.36	1.97	2.80
Weight	kg	32	48.5	60	32	48.5	60	32	48.5	60
<b>Electric Heated Models</b>										
Heating capacity - std/max¹	kW	9/12	12/18	18/24	9/12	12/18	18/24	9/12	12/18	18/24
Electrical supply		415V 3ph 50Hz								
Total electrical load -per phase										
Standard - as supplied	A	13.7	18.3	27.4	13.8	18.4	27.7	13.8	18.5	27.8
Maximum - selectable by installer	A	17.9	26.6	35.7	18.0	26.8	36.0	18	27	36.2
Weight	kg	34.5	52	64.5	34.5	52	64.5	34.5	52	64.5
<b>LTHW Heated Models</b>										
Maximum heating capacity²	kW	12	18	24	12	18	24	12	18	24
Electrical supply		230V 1ph 50Hz								
Total electrical load	A	1.17	1.52	2.32	1.29	1.74	2.65	1.36	1.97	2.80
Weight (incl water)	kg	38.5	58	72	38.5	58	72	38.5	58	72

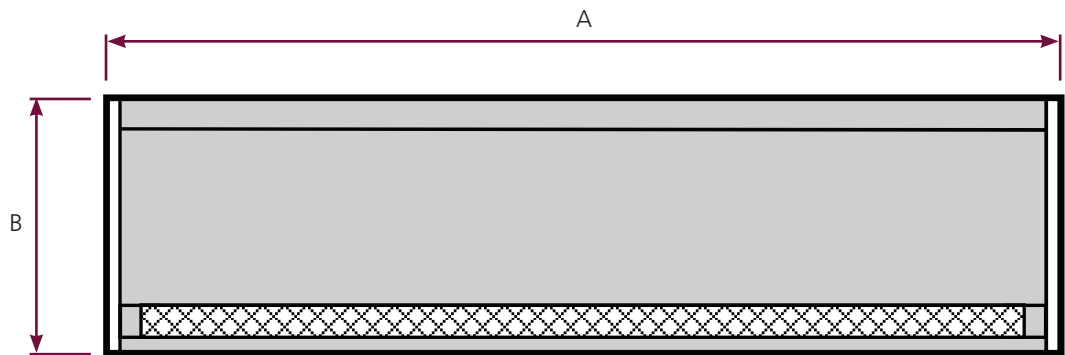
¹Std = default heating capacity, Max = jumper selectable by installer

²kW ratings based upon a flow & return water temperature of 82/72°C

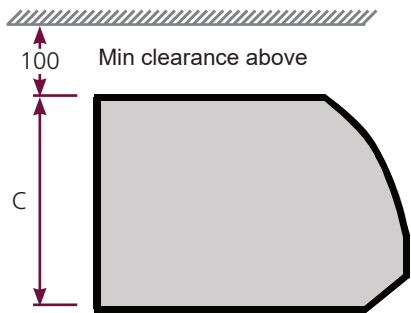
### Dimensional Data - Surface Mounted Models (GS)



Top view



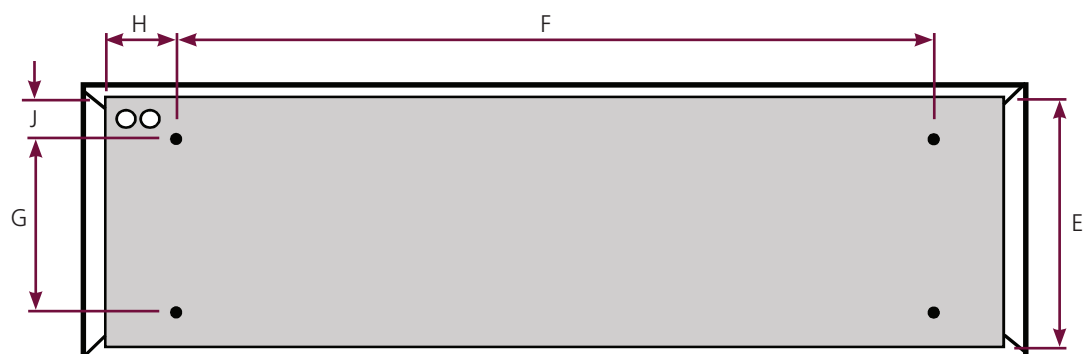
Bottom view



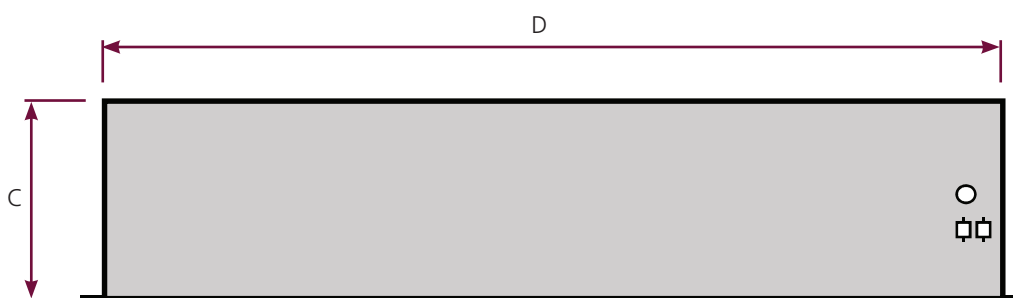
Side view

Dimensions				
Model		GS1000	GS1500	GS2000
A - Overall width	mm	1,094	1,620	2,148
B - Overall depth	mm	440	440	440
C - Height	mm	306	306	306
F - Suspension centres	mm	830	1,360	1,884
G - Suspension centres	mm	227	227	227
H - Suspension point location	mm	132	130	132
J - Suspension point location	mm	70	70	70

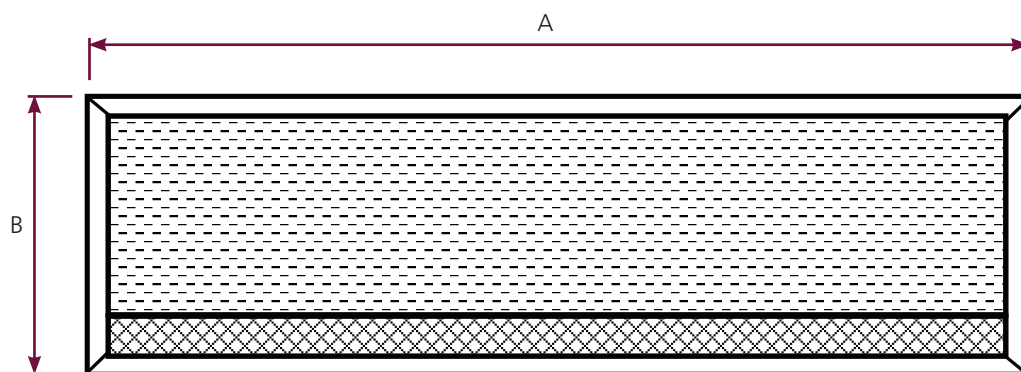
## Dimensional Data - Recessed Models (GR)



Top view



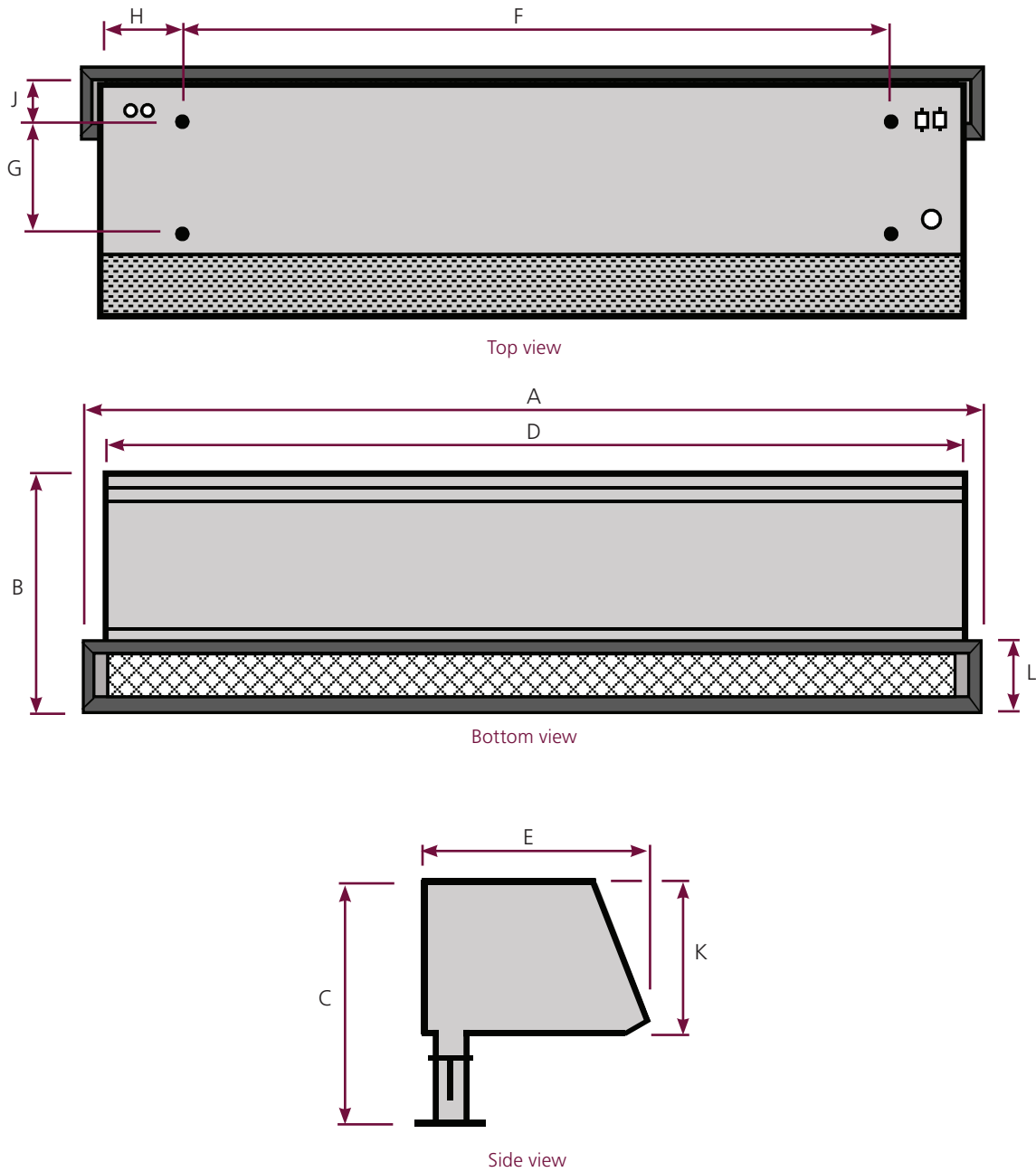
Front view



Bottom view

Dimensions				
Model		GR1000	GR1500	GR2000
A - Overall width	mm	1,125	1,650	2,177
B - Overall depth	mm	457	457	457
C - Height	mm	273	273	273
D - Casing width	mm	1,060	1584	2,111
E - Casing depth	mm	438	438	438
F - Suspension centres	mm	830	1360	1,884
G - Suspension centres	mm	298	298	298
H - Suspension point location	mm	114	112	114
J - Suspension point location	mm	70	70	70

Dimensional Data - Bulkhead Mounted Models (GB)



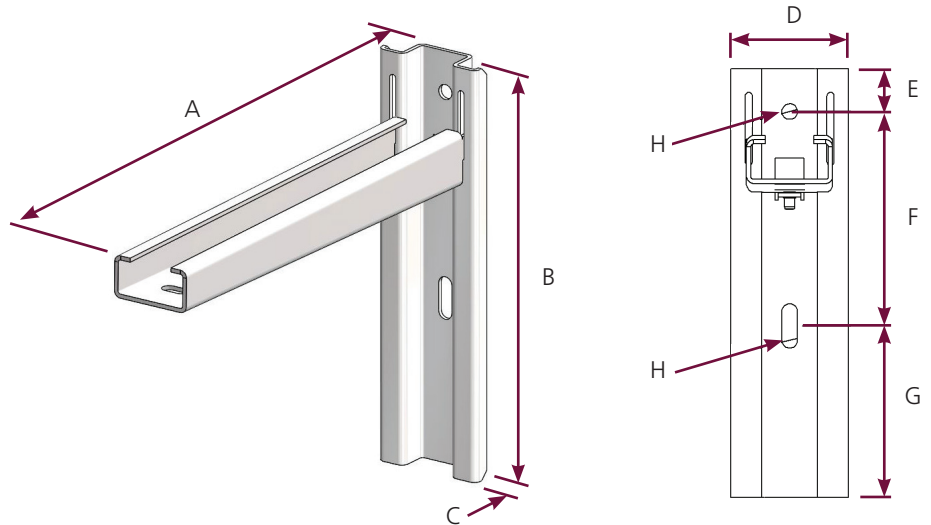
Dimensions				
Model		GB1000	GB1500	GB2000
A - Overall width	mm	1,125	1,650	2,177
B - Overall depth	mm	448	448	448
C - Height (min/max)	mm	427/487	427/487	427/487
D - Casing width	mm	1,060	1,584	2,111
E - Casing depth	mm	436	436	436
F - Suspension centres	mm	830	1,360	1,884
G - Suspension centres	mm	226	226	226
H - Suspension point location	mm	114	112	114
J - Suspension point location	mm	70	70	70
K - Casing height	mm	300	300	300
L - Outlet width	mm	137	137	137

## Optional Equipment

### Wall suspension bracket

(For use with GS & GB models)

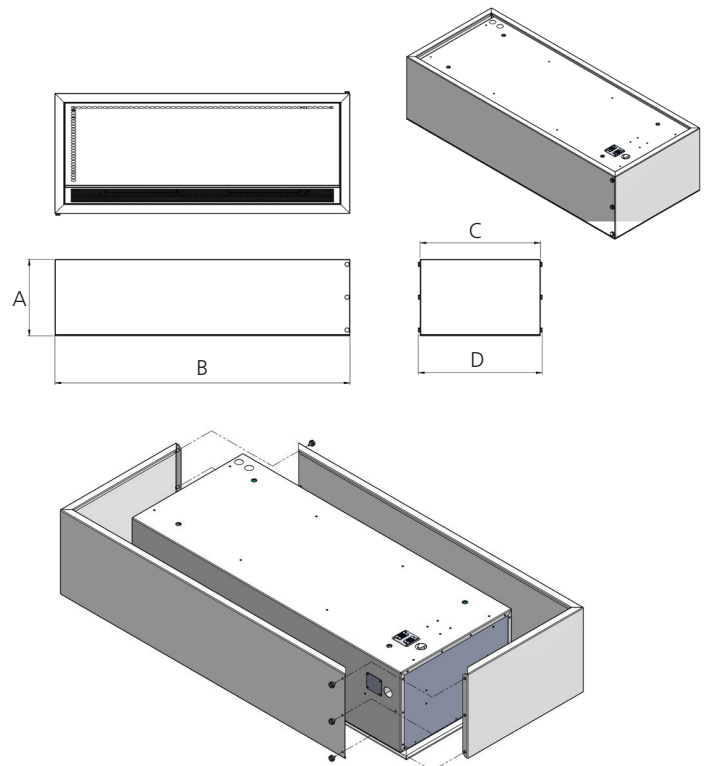
Dimensions		
A - Length	mm	355
B - Height	mm	300
C - Thickness	mm	25
D - Width	mm	82
E - Wall fixing location	mm	30
F - Wall fixing centres	mm	150
G - Wall fixing centres	mm	120
H - Fixing diameter	mm	11



### Surface mounting conversion skirt

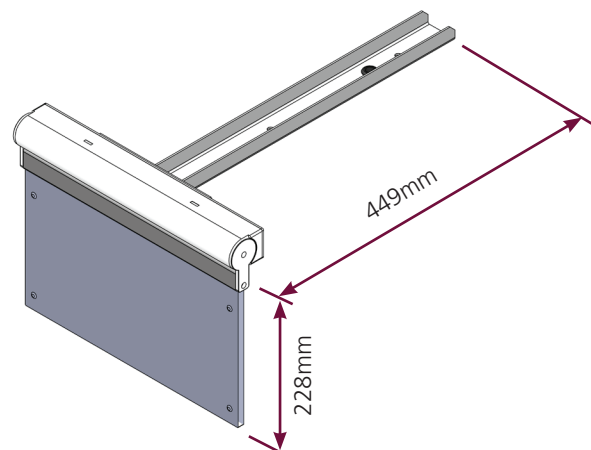
(For use with GR models only)

Dimensions (mm)	GR1000	GR1500	GR2000
A - Height	292	292	292
B - Length	1124	1648	2176
C - Width	458	458	458
D - Overall Width	472	472	472



### Emergency exit sign

(For use with GS models only)



## Other products in the Reznor range:-

- Warm air heaters
- Radiant heating
- Destratification fans
- Heating & ventilation units
- Packaged rooftop units
- Air induction systems
- Gas fired heater modules
- Evaporative cooling

GB/REZ/GUAR/002/0821



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