

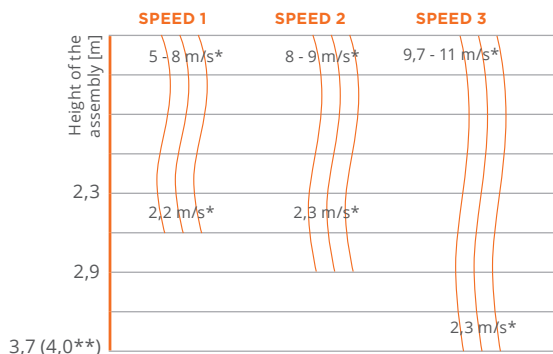
The new **GUARD** comes with modern design, high performance parameters and full range of accessories. GUARD is synonymous to modernity, superior and advanced technology



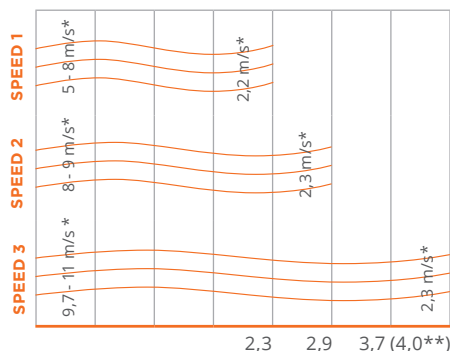
## ADVANTAGES

- Modern design
- High performance parameters, air output 4800 m³/h, air throw up to 4 m
- PTC electric heaters technology
- Low noise level, reduced weight

### HORIZONTAL AIR FLOW RANGE (max installation height)



### VERTICAL AIR FLOW RANGE (max range by vertical installation)



\* air flow speed \*\* ambient air curtain

## AUTOMATIC CONTROL



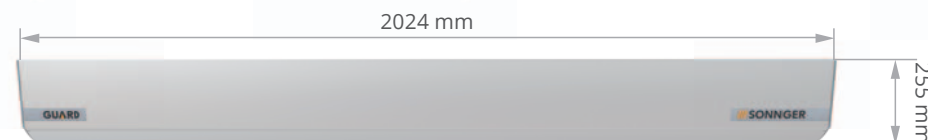
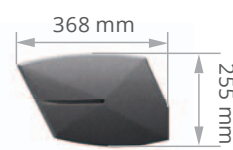
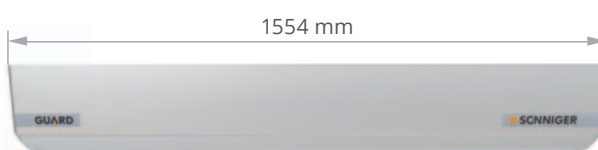
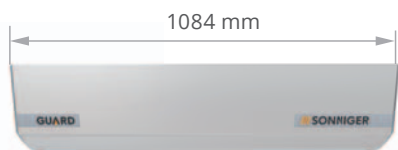
- Panel COMFORT**
- Manual temperature regulation
  - Fan speed change
  - Control up to 2 pcs of GUARD air curtains



- MAGNETIC doorswitch**
- Allows to activate/deactivate air curtain depending on opening of entrance doors



- BMS**
- Delivery of basic signals to Building Management System)



| TECHNICAL DATA                 |                   | AIR CURTAIN WITH WATER HEATER |               |               | AIR CURTAIN WITH ELECTRIC HEATER |                |                | AIR CURTAIN WITHOUT HEATER |               |               |
|--------------------------------|-------------------|-------------------------------|---------------|---------------|----------------------------------|----------------|----------------|----------------------------|---------------|---------------|
|                                |                   | GUARD 100W                    | GUARD 150W    | GUARD 200W    | GUARD 100E                       | GUARD 150E     | GUARD 200E     | GUARD 100C                 | GUARD 150C    | GUARD 200C    |
| length of unit                 | m                 | 1                             | 1.5           | 2             | 1                                | 1.5            | 2              | 1                          | 1.5           | 2             |
| max installation height        | m                 | 4                             | 4             | 4             | 4                                | 4              | 4              | 4                          | 4             | 4             |
| max air output                 | m <sup>3</sup> /h | 2000                          | 3600          | 4800          | 2000                             | 3600           | 4800           | 2100                       | 3700          | 5000          |
| heat output *                  | kW                | 10-16                         | 20-29         | 25-40         | 4 - 7                            | 6,5 - 11       | 8,5 - 14       | -                          | -             | -             |
| max working pressure           | MPa               | 1,6                           | 1,6           | 1,6           | -                                | -              | -              | -                          | -             | -             |
| diameter of connection nozzles | inches            | 1/2"                          | 1/2"          | 1/2"          | -                                | -              | -              | -                          | -             | -             |
| power supply                   | V/Hz<br>A         | 230/50<br>1,95                | 230/50<br>2,6 | 230/50<br>2,6 | 230/50<br>1,95                   | 230/50<br>2,6  | 230/50<br>2,6  | 230/50<br>1,95             | 230/50<br>2,6 | 230/50<br>2,6 |
| motor power                    | W                 | 220                           | 320           | 320           | 220                              | 320            | 320            | 220                        | 320           | 320           |
| power consumption              | V/Hz<br>A         | -                             | -             | -             | 400/50<br>11                     | 400/50<br>16,6 | 400/50<br>22,4 | -                          | -             | -             |
| weight                         | kg                | 16,5                          | 20,5          | 28            | 17                               | 21,5           | 29             | 15                         | 18,5          | 25            |
| noise level                    | dB (A)            | 59                            | 61            | 62            | 59                               | 61             | 62             | 60                         | 61            | 62            |
| protection class IP            | -                 | IP21                          | IP21          | IP21          | IP21                             | IP21           | IP21           | IP21                       | IP21          | IP21          |

\* heat output range for parameters of water 90/70°C and temperature of inlet air +10°C

### GUARD 100W

#### AIR CURTAIN air flow - 2000 m<sup>3</sup>/h

| inlet/outlet water temperature |                   | water 60/40 °C |      |      |      |      | water 70/50 °C |      |      |      |      | water 90/70 °C |      |      |      |      |
|--------------------------------|-------------------|----------------|------|------|------|------|----------------|------|------|------|------|----------------|------|------|------|------|
| inlet air temperature          | °C                | 0              | 5    | 10   | 15   | 20   | 0              | 5    | 10   | 15   | 20   | 0              | 5    | 10   | 15   | 20   |
| heat output                    | kW                | 9              | 7,9  | 6,9  | 5,8  | 4,8  | 11,3           | 10,3 | 9,2  | 8,1  | 7,1  | 16             | 14,9 | 13,9 | 12,8 | 11,7 |
| outlet air temperature         | °C                | 14,9           | 18,3 | 21,8 | 25,2 | 28,7 | 18,4           | 21,8 | 25,2 | 28,7 | 32,1 | 25,4           | 28,8 | 32,2 | 35,6 | 39   |
| water flow                     | m <sup>3</sup> /h | 0,4            | 0,3  | 0,3  | 0,2  | 0,2  | 0,5            | 0,4  | 0,4  | 0,3  | 0,3  | 0,7            | 0,6  | 0,6  | 0,5  | 0,5  |
| pressure drop                  | kPa               | 2              | 2    | 1    | 1    | 1    | 4              | 3    | 2    | 2    | 1    | 7              | 6    | 5    | 5    | 4    |

### GUARD 150W

#### AIR CURTAIN air flow - 3600 m<sup>3</sup>/h

| inlet/outlet water temperature |                   | water 60/40 °C |      |      |      |      | water 70/50 °C |      |      |      |      | water 90/70 °C |      |      |      |      |
|--------------------------------|-------------------|----------------|------|------|------|------|----------------|------|------|------|------|----------------|------|------|------|------|
| inlet air temperature          | °C                | 0              | 5    | 10   | 15   | 20   | 0              | 5    | 10   | 15   | 20   | 0              | 5    | 10   | 15   | 20   |
| heat output                    | kW                | 17,4           | 15,6 | 13,8 | 12,1 | 10,3 | 21,3           | 19,5 | 17,7 | 15,9 | 14,1 | 29,0           | 27,2 | 25,4 | 23,6 | 21,8 |
| outlet air temperature         | °C                | 15,1           | 18,6 | 22,1 | 25,7 | 29,2 | 18,3           | 21,8 | 25,3 | 28,9 | 32,4 | 24,7           | 28,2 | 31,7 | 35,2 | 38,7 |
| water flow                     | m <sup>3</sup> /h | 0,6            | 0,6  | 0,5  | 0,4  | 0,3  | 0,8            | 0,7  | 0,7  | 0,6  | 0,5  | 1,2            | 1,1  | 1    | 0,9  | 0,8  |
| pressure drop                  | kPa               | 8              | 6    | 4    | 3    | 2    | 12             | 10   | 8    | 6    | 5    | 22             | 19   | 17   | 14   | 12   |

### GUARD 200W

#### AIR CURTAIN air flow - 4800 m<sup>3</sup>/h

| inlet/outlet water temperature |                   | water 60/40 °C |      |      |      |      | water 70/50 °C |      |      |      |      | water 90/70 °C |      |      |      |      |
|--------------------------------|-------------------|----------------|------|------|------|------|----------------|------|------|------|------|----------------|------|------|------|------|
| inlet air temperature          | °C                | 0              | 5    | 10   | 15   | 20   | 0              | 5    | 10   | 15   | 20   | 0              | 5    | 10   | 15   | 20   |
| heat output                    | kW                | 24,7           | 22,3 | 19,9 | 17,5 | 15,1 | 29,8           | 27,4 | 25,0 | 22,6 | 20,2 | 40,0           | 37,6 | 35,2 | 32,8 | 30,4 |
| outlet air temperature         | °C                | 15,7           | 19,2 | 22,7 | 26,2 | 29,7 | 18,9           | 22,4 | 25,9 | 29,4 | 32,9 | 25,2           | 28,7 | 32,2 | 35,7 | 39,2 |
| water flow                     | m <sup>3</sup> /h | 0,9            | 0,8  | 0,7  | 0,6  | 0,5  | 1,1            | 1    | 0,9  | 0,8  | 0,7  | 1,6            | 1,5  | 1,4  | 1,3  | 1,2  |
| pressure drop                  | kPa               | 15             | 12   | 9    | 7    | 5    | 22             | 19   | 15   | 12   | 9    | 42             | 37   | 32   | 27   | 23   |

### GUARD 100E, 150E, 200E

#### AIR CURTAINS

| inlet/outlet water temperature |    | GUARD 100E |    |    |    |    | GUARD 150E |    |    |    |    | GUARD 200E |    |    |    |    |
|--------------------------------|----|------------|----|----|----|----|------------|----|----|----|----|------------|----|----|----|----|
| inlet air temperature          | °C | 0          | 5  | 10 | 15 | 20 | 0          | 5  | 10 | 15 | 20 | 0          | 5  | 10 | 15 | 20 |
| heat output                    | kW | 7          | 7  | 7  | 7  | 7  | 11         | 11 | 11 | 11 | 11 | 14         | 14 | 14 | 14 | 14 |
| outlet air temperature         | °C | 12         | 17 | 22 | 27 | 32 | 13         | 18 | 23 | 28 | 33 | 14         | 19 | 24 | 29 | 34 |