# Air curtains

## SchwankAir

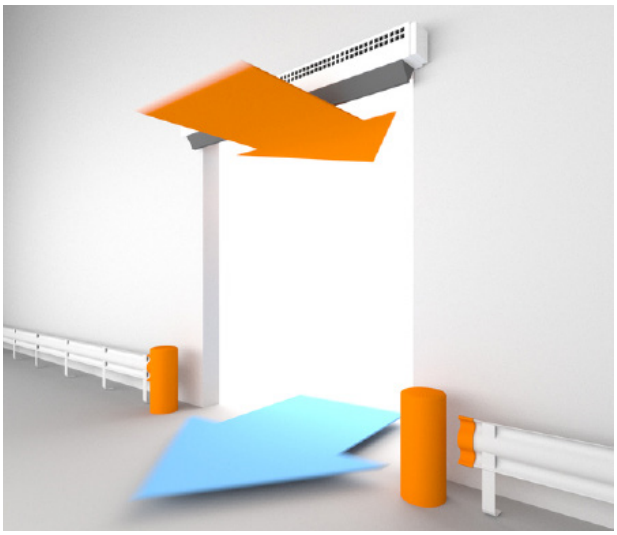

SchwankAir

# Hall gates -
# Energetic weakness of every building

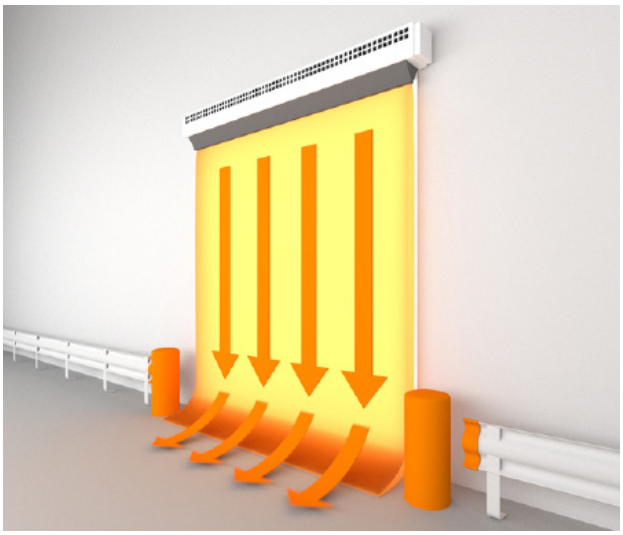
## Often hall gates are energy intensive building

Roll gates are opened regularly and for longer periodes of time. Thereby they cause a rapid exchange between cold external and heated internal air. This increased exchange of air leads to a high level level of energy costs and uncomfortable draught.

SchwankAir curtains avoid these uncomfortable effects. Schwank - the expert for innovative climate solutions - provides indivdual solutions, even for existing heating systems



*Open gate with turned-off air curtain.*

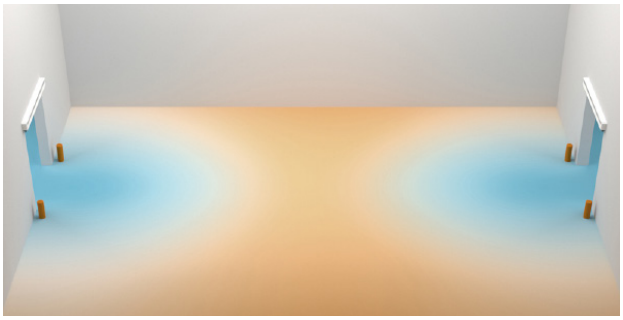


*Open gate with turned-on air curtain.*

## Air curtains - The end to uncontrolled air exchange.

Air curtains blow ambient or heated air directly alongside the hall gates. Like an invisible wall this air curtains separates internal from external air.

Thereby unconvenient draughts from the outside can be avoided, which increases employee satisfaction sustainably. Considering energy prices also important: Facility operators save energy costs and operating hours of their heating systems decrease remarkably.



*Cold air flow without air curtain.*

*Cold air flow with air curtain.*

# SchwankAir - Know-How and efficiency from the industriy specialist

## Air curtains are a smart addition to your existing heating and cooling system.

With air curtains you meaningfully complete your heating and cooling system and avoid unnecessary energy loss and draught through hall gates.
Therefor Schwank offers a broad variety of solutions for nearly any application.

SchwankAir curtains are suitable for new buildings as well as for retrofits.


*Air curtains by Schwank: SchwankAir*

**Your advantages at a glance:**

- Reduction of energy costs by decreasing air intake trough open gates.
- Higher comfort by avoiding arm- and cold air intake in summer and winter.
- Reduction of employee absence by avoiding draughts.

## Example:

| | |
|---|---|
| Facility size: | 50m x 40m x 6m [12.000 m³] |
| Gates: | Two gates a 4,5x4,0m |
| Opening times per gate: | 2,5 Min / hour |
| Air intake velocity: | 0,5 m/s [Corresponds almost to calm] |
| Air intake: | 2.700 m³/h |

**That means: Within 4 hours the ambient air is entirely replaced by cold external air!**

# Technical Data

| Ambient air curtain SchwankAir A-Series | | | | |
|---|---|---|---|---|
| **Type** | | **A-1000** | **A-1500** | **A-2000** |
| Air flow | $m^3/h$ | 3.340 | 5.000 | 6.680 |
| Quantity of fans | | 1 | 2 | 2 |
| Rotation speed | $min^{-1}$ | 1.150 | 1.150 | 1.350 |
| Supply voltage | | Single-phase 230V AC IP42 | | |
| Nominal current | A | 2 | 4 | 4,2 |
| Electric power | W | 425 | 620 | 850 |
| Size | L | 984mm | 1.472mm | 2.002mm |
| | D | 650mm | | |
| | H | 867mm | | |
| Weight | kg | 38 | 65 | 77 |

| Heated air curtain SchwankAir H-Series | | | |
|---|---|---|---|
| **Type** | | **H-3500** | **H-4500** |
| Nominal power | kW | 38 | 44 |
| Utile power | kW | 34,6 | 40,5 |
| Efficiency | % | 91 | 91 |
| Gas flow G20 bei 15°C | $m^3/h$ | 4,02 | 4,63 |
| Quantity of fans | | 3x380 | 3x450 |
| Rotation speed [double stage] | T/min | 1.350 / 1.200 | 1.350 / 1.050 |
| Air flow at 15°C, high speed | $m^3/h$ | 6.500 | 10.500 |
| Δ t of air | °C | 16 / 21 | 12 / 15 |
| Diameter of gas connection | mm | 100 / 100 | 100 / 100 |
| Supply voltage | | monophased 230V | |
| Electric power [fans] | kW | 0,55 | 1,35 |
| Size | L | 1.960mm | |
| | D | 610mm | |
| | H | 1.050mm | |
| Weight | kg | 151 | 173 |



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