

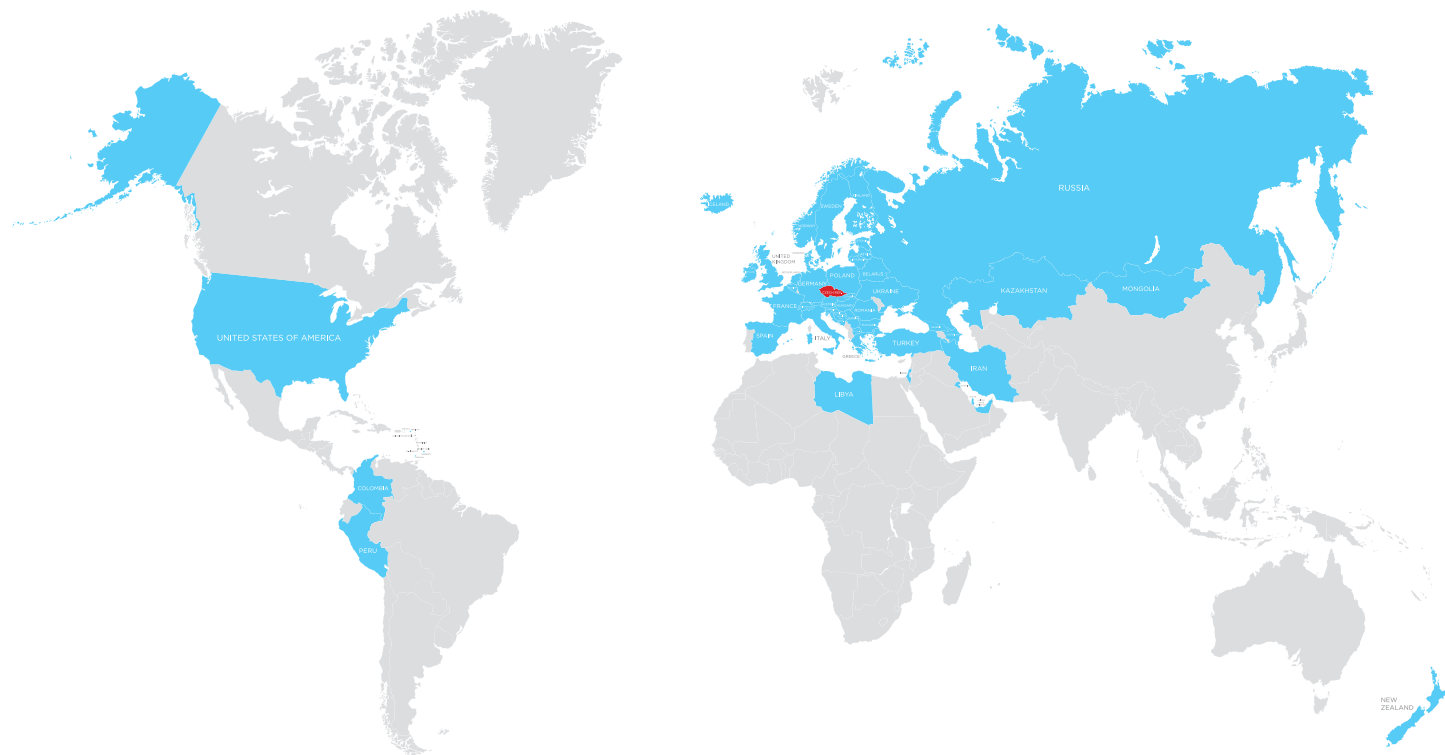


PARTNER  
IN VENTILATION  
2VV.CZ

# AIR CURTAINS

Since 1997

COMFORT AND SAVINGS



## DISTRIBUTORS IN 45 COUNTRIES AROUND THE WORLD

- A leading European manufacturer of Air Curtains, Air Handling and Heat Recovery Units and wide range of HVAC products
- Creating efficient solutions since 1995
- Innovative, specialized, focused
- In-house R&D
- European quality
- Worldwide presence



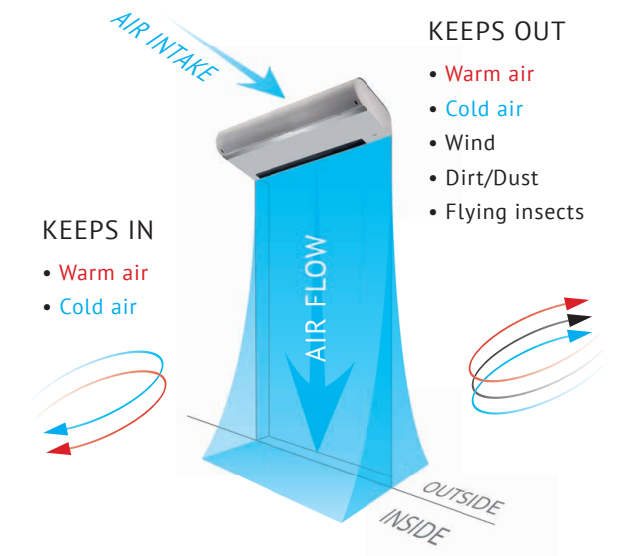
## 2VV AIR CURTAINS – COMFORT AND SAVINGS

Air Curtains keep the inside conditions in and the outside conditions out so you can keep your door open...

### AIR CURTAINS EFFECTS

- Comfortable indoor environment
- Limit heat losses in winter
- Limit conditioned air leakage in summer
- Significant energy saving

**2VV Air Curtains** are suitable for many environments such as **restaurants, administrative and commercial centers, airports, manufacturing facilities, warehouses and logistic centers.**



## DATA MEASUREMENT STANDARDS

**Key parameters of 2VV Air Curtains** – air volume, air flow reach and sound power level are measured exclusively according to **ISO 27327**.

The data measured according to ISO 27327 are included in the 2VV technical leaflets and are available to download in the Product Catalog section.

## STRAW SYSTEM TECHNOLOGY

**Special nozzle system providing the best performance...**

- Laminar and compact airflow
- Steady and even airstream
- Low noise level

**STRAW  
SYSTEM**

## EC TECHNOLOGY

**2VV Air Curtains continuously innovative and focused...**

- Low energy consumption
- High level of controllability
- Maximized efficiency, minimized operating cost

**EC  
FANS**

## ZIG-ZAG TECHNOLOGY

**Effective electric heating solution with higher safety**

- Special wire heaters
- Instant start-up / instant stop of heating
- Increased safety – each with its own working thermostat

**WIRE  
HEATER**

## DUAL AIRSTREAM SYSTEM

**Interior comfort, minimized heat losses, reduced heating demand...**

- Non-heated and water heated airstream both with the same air velocity
- Limited heat losses and reduced heating demand
- Excellent comfort in screened area

**DUAL  
AIRSTREAM**

2VV AIR CURTAINS



Applications	Fast-food facilities, drive-thru restaurants, petrol stations, receptions	Shops, restaurants, cafes, bars, petrol stations	Shops, shopping centres, restaurants, administrative buildings	Banks, luxury shops, shopping centres, administrative buildings, airports	Banks, administrative buildings, shopping centres, airports	Airports, shopping centres, administrative buildings, other public premises	Banks, offices, restaurants, hotels, shopping centres	Manufacturing facilities, warehouses, distribution centres	Manufacturing facilities, warehouses, distribution centres	Manufacturing facilities, warehouses, distribution centres
Airflow	up to 345 m³/h	1,250–2,640 m³/h	1,500–6,100 m³/h	1,550–6,400 m³/h	1,700–6,600 m³/h	6,000–12,000 m³/h	up to 4,700 m³/h	10,300–19,000 m³/h	10,300–19,000 m³/h	10,500–17,500 m³/h
Fan type	AC FANS	AC FANS	AC FANS EC FANS	AC FANS EC FANS	AC FANS EC FANS	EC FANS	AC FANS	AC FANS EC FANS	AC FANS EC FANS	EC FANS
Installation	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal Recessed	Horizontal	Vertical	Horizontal / Vertical	Horizontal / Vertical	Horizontal / Vertical
Door height / width	Recommended height up to 0,8 m	Recommended height up to 2,5 m	Recommended height up to 4 m	Recommended height up to 5 m	Recommended height up to 5 m	Recommended height up to 6 m	Recommended width up to 4 m	Recommended height/width up to 8 m	Recommended height/width up to 8 m	Recommended height/width up to 7,5 m
Length	0.6 and 0.9 m	1 m; 1.5 m; 2 m	1 m; 1.5 m; 2 m; 2.5 m	1 m; 1.5 m; 2 m; 2.5 m	1 m; 1.5 m; 2 m; 2.5 m	1,5 m; 2 m; 2,5 m; 3 m	Height 2.5 m	1.65 m; 2.20 m; 2.75 m	1.65 m; 2.20 m; 2.75 m	1.65 m; 2.20 m; 2.75 m
Heating										
Control	 RF control	 IR control	 AirGENIO control	 AirGENIO control	 AirGENIO control	 AirGENIO SUPERIOR control	 AirGENIO control	 AirGENIO Basic AirGENIO IC-C control	 AirGENIO Basic AirGENIO IC-C control	 AirGENIO Basic AirGENIO IC-C control
Technologies	FACE 2in1 WIRE HEATER	STRAW SYSTEM WIRE HEATER	STRAW SYSTEM WIRE HEATER MODULAR CONTROL	FACE 2in1 WIRE HEATER MODULAR CONTROL	FACE 2in1 WIRE HEATER MODULAR CONTROL	STRAW SYSTEM LOW NOISE	STRAW SYSTEM LOW NOISE	STRAW SYSTEM WIRE HEATER	STRAW SYSTEM C4 CLASS	STRAW SYSTEM DUAL AIRSTREAM

# AirGENIO CONTROL SYSTEM



2VV AirGENIO is the exceptional control system loaded with smart features that minimize energy consumption while providing maximal comfort in the interior.

INTUITIVE

INNOVATIVE

INTELLIGENT



AirGENIO control system

## INTUITIVE

Instructive and easy to understand menu together with the modern look of the control panel makes the AirGENIO intuitive and easy-to-operate control system. This starts with a clear icons in User's menu and well-organized and clearly set up Service menu.

- Clear icons
- Coloured touch-screen display
- Systematic Service Menu

## INNOVATIVE

Commission, control and service the 2VV device remotely with the AirGENIO control system. Choose your way for remote control:

- Building Management System (network protocols Modbus RTU/TCP, BACnet)
- AirGENIO application
- Service Software



## INTELLIGENT

Complex and refined algorithms, smart functionalities and supplementary modes work together to make AirGENIO highly intelligent control system.

In the automatic mode it continuously senses and evaluates measured data and subsequently, thanks to the programmed logic, operates the air curtain in the best possible way. With the help of smart functionalities designed particularly for heating equipment it keeps maximal comfort in the interior and prolongs the equipment longevity.

### Smart functionalities:

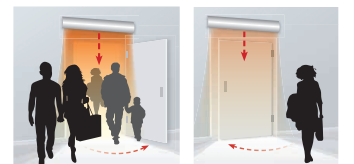
#### Auto-speed control

AirGENIO control together with integrated temperature sensors ensures the air curtain operation at maximum comfort and the lowest operating cost



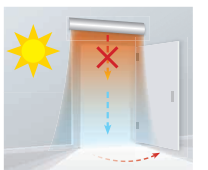
#### Self-learning mode

Eliminates useless start-ups at frequent door openings – saves operating cost and prolongs air curtain lifetime



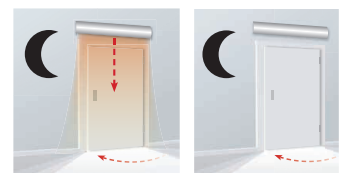
#### Summer heating

During pre-set (summer) time period the air curtain heats up only if the outside/inside temperature difference exceeds the pre-set scale



#### Nigh mode

For pre-set time period the air curtain is automatically switched OFF or heats up for minimal requested room temperature



Furthermore the control system takes into account the geographical differentiation and various advance settings can be done.





## AirGENIO control system SOLUTIONS

AirGENIO control provides various solutions from high-tech to basic level allowing the client to customize their controls. Thanks to one platform of the control system you will intuitively know how to set it up and control it.



AirGENIO  
BASIC



AirGENIO  
COMFORT



AirGENIO  
SUPERIOR



AirGENIO  
IC-C

Control panel	Manual	Touch-screen	Touch-screen	Touch-screen
Mode	Manual	Auto / Manual	Auto / Manual	Auto / Manual
Airflow control	3 speeds	3 speeds	3 speeds (AC) 15-100% (EC)	5 speeds (AC) 15-100% (EC)
Electric heater control	2 steps	2 steps	Fluent (PWM)	Fluent (PWM) or 2 steps
Water heater control	ON/OFF	ON/OFF (AC) 0-10V or ON/OFF (EC)	0-10V	0-10V or ON/OFF
Anti-freeze protection	✗	✓	✓	✓
Timer	✗	✓	✓	✓
Door contact	✓ (230V)	✓ (12V, 230V)	✓ (12V, 230V)	✓ (12V, 230V)
Room thermostat	✓ (230V)	✓	✓	✓
External control	✗	✓	✓	✓
Error contact	✗	✓	✓	✓
Temperature measurement	✗	✓ (NTC)	✓ (NTC)	✓ (NTC)
Chaining	✗	✓ – max 10+1 pcs	✓ – max 10+1 pcs	✓ – max 10+1 pcs
BMS connection	✗	✓ – Modbus RTU	✓ – Modbus RTU/TCP or BACnet	✓ – Modbus RTU/TCP or BACnet
Service Software	✗	✗	✓	✓
Auto-speed control	✗	✓	✓	✓
Self-learning mode	✗	✓	✓	✓
Summer heating	✗	✓	✓	✓
Night mode	✗	✓	✓	✓

## MagiCAD - 3D MODELS

Building design with 2VW has never been easier...

### 2VW BIM DATABASE

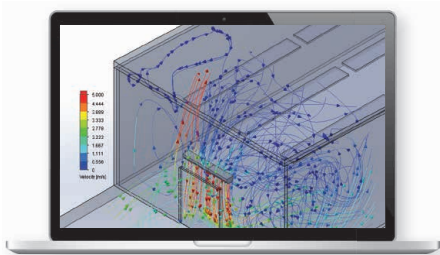
MagiCAD offers designers, engineers and architects access to over 1 million intelligent 3D product models including **the complete 2VW's range of Air Curtains and Air Heaters**. MagiCAD can be used with either AutoCAD or Revit.



## CFD Simulations

A picture is worth a 1000 words and a CFD is worth so much more...

- CFD (Computational Fluid Dynamics) simulates behaviour of air movement in specific conditions
- Get CFD simulation for 2VW air curtains and let the pictures tell the story
- Erase client doubts by CFD



CFD simulation could be the difference between winning the project or not.

## 2VW SELECTION SOFTWARE ChooseGO

Essential product selecting tool for project design...

- Precise and reliable data
- Right product selection from 2VW wide range
- Final result and one-click into PDF
- Supplementary documents available (technical catalogue, 2D drawings, schemes...)



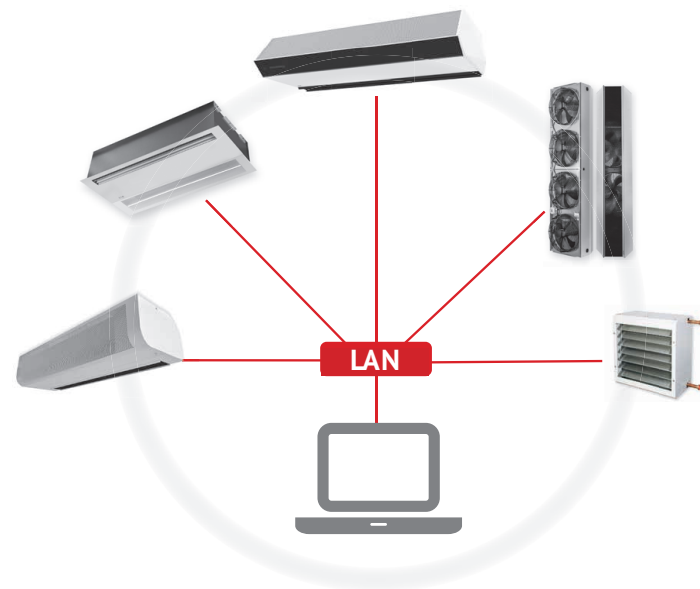
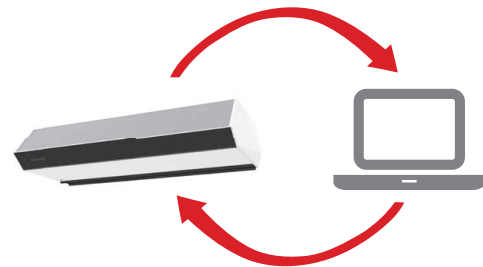


## 2VV SERVICE SOFTWARE

### Commissioning has never been easier...

Do the 2VV device settings and testing comfortably on your computer.

- Easy and quick commissioning
- Error log – error display and identification
- Easy service (device status loading/ reset to backup setting)
- Fast FW update
- OFFLINE version



### It is that easy...

- Connect your PC and the 2VV device
- Open the 2VV Service software
- ...and start the setting up process

## 2VV AirGENIO APPLICATION

### 2VV product fully under your control and right at your hands...

- Product control on your smartphone
- Info about operation status
- Notifications – request for service, filter exchange, error status, etc.

Download the **2VV AirGENIO application** and have it under your control!



## REFERENCES

### INDESSE

Manufacturing facility ŠKODA  
Mladá Boleslav, Czech Republic



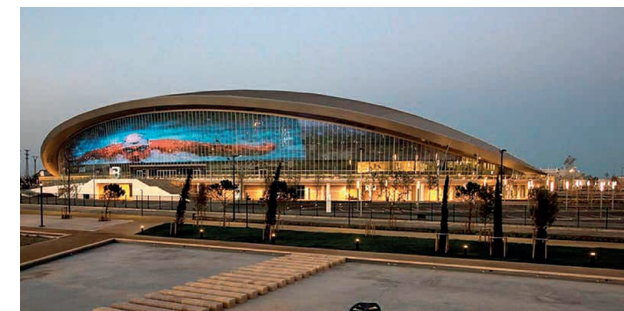
### INDESSE

Living hall – LIKO-Vo  
Slavkov u Brna, Czech Republic



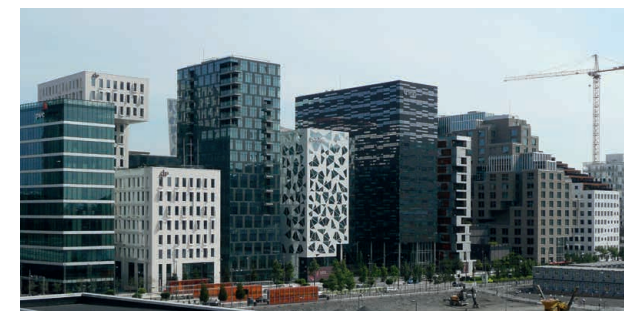
### STANDESSE

Swimming arena BAKU  
Baku, Azerbaijan



### FINESSE, STANDESSE

Administrative and residential complex BARCODE  
Oslo, Norway



### VENESSE

Shopping centre PALÁC PARDUBICE  
Pardubice, Czech Republic



### VENESSE

Shopping centre AVIAPARK  
Moscow, Russia



### ESSENSE

Shopping centre SCALO MILANO  
Milan, Italy



### INDESSE

University hospital NEW KAROLINSKA SOLNA  
Stockholm, Sweden





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