



ENERGYNET
U krugu dobre energije



PARTNER
IN VENTILATION
2VV.CZ

AIR CURTAINS

Since 1997

COMFORT AND SAVINGS



PARTNER
IN VENTILATION
2VV.CZ



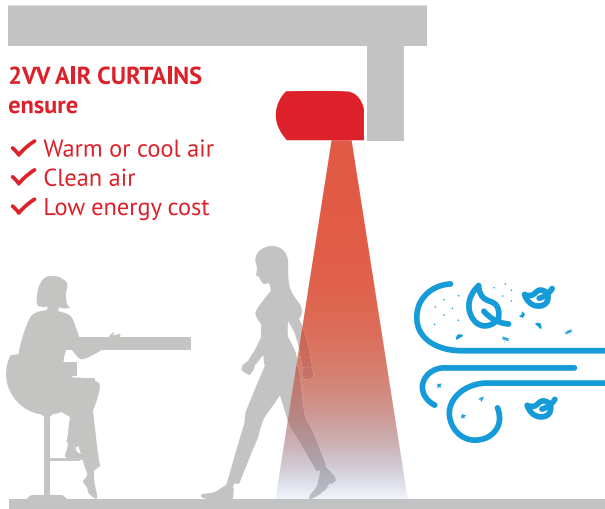
DISTRIBUTORS IN 45 COUNTRIES AROUND THE WORLD

- 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 and focused approach
- In-house R&D
- European quality
- Worldwide presence





2VV AIR CURTAINS – COMFORT AND SAVINGS



2VV AIR CURTAINS ensure

- ✓ Warm or cool air
- ✓ Clean air
- ✓ Low energy cost

2VV Air Curtains are suitable for restaurants, public buildings, warehouses and many more applications.

An air curtain, known as an air barrier, is a device that blows a variably **controlled stream of air** across one side of an opening to the other side to create an air seal.

This seal **separates different environments** while allowing a regular and continuous flow of traffic and clear vision through the opening.

By helping to contain heated or conditioned air, they provide substantial **energy savings** and increased **personal comfort** when installed in industrial or commercial settings.

They also help to **stop the infiltration of dust, odors and flying insects**.

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



BASIC



ENTRESSE



**ESSENSSE
NEO**

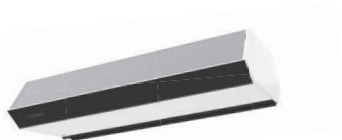


STANDESSE



FINESSE

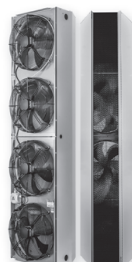
	BASIC	ENTRESSE	ESSENSSE NEO	STANDESSE	FINESSE
Applications	Fast-food facilities, drive-thru restaurants, petrol stations, receptions	Shops, restaurants, cafes, bars, petrol stations	Shops, shopping centres, restaurants, administrative buildings	Banks, luxury shops, shopping centres, administrative buildings, airports	Banks, administrative buildings, shopping centres, airports
Airflow	up to 345 m³/h	1,250–2,640 m³/h	1,500–6,150 m³/h	1,550–6,400 m³/h	1,700–6,600 m³/h
Fan type			 	 	 
Installation	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal Recessed
Door height / width	Recommended height up to 1.5 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
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
Heating		  	  	  	  
Control	 RF control	 IR control	   AirGENIO control	   AirGENIO control	   AirGENIO control
Technologies	 	 	  	  	  



STANDESSE XP
standesse.com



VENESSE



INDESSE



**INDESSE
INOX**



**INDESSE
GP**

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
6,000–12,000 m ³ /h	up to 4,700 m ³ /h	10,300–19,000 m ³ /h	10,300–19,000 m ³ /h	10,500–17,500 m ³ /h
		 	 	
Horizontal	Vertical	Horizontal / Vertical	Horizontal / Vertical	Horizontal / Vertical
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
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
				
 AirGENIO SUPERIOR control	 SUPERIOR  COMFORT AirGENIO control	 AirGENIO Basic EC  AirGENIO IC-C control	 AirGENIO Basic EC  AirGENIO IC-C control	 AirGENIO Basic EC  AirGENIO IC-C control
 	 	 	 	 

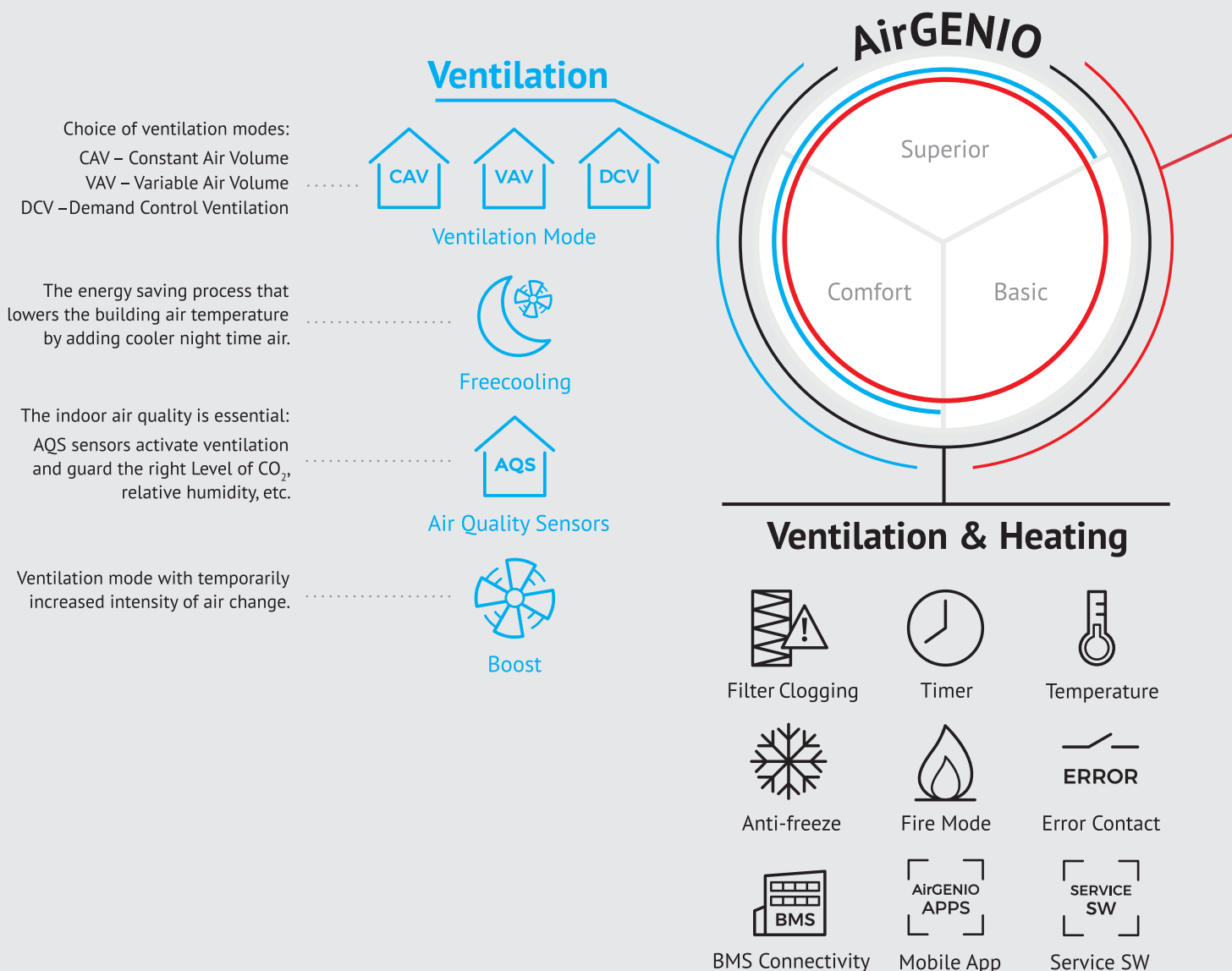
AirGENIO CONTROL SYSTEM



AirGENIO control system

2W AirGENIO control system ensures easy and smart operation of 2W devices. It is full of smart features, which operate the device with a clear focus on minimizing energy consumption and providing maximum comfort to the interior. Each client has a different demand for the technical level of control therefore AirGENIO control provides various solutions from high-tech to basic level, allowing the client to customize their controls to deliver the temperature and ventilation they desire. In addition, the control panel with its colour touch-screen display is an integral part of the system.

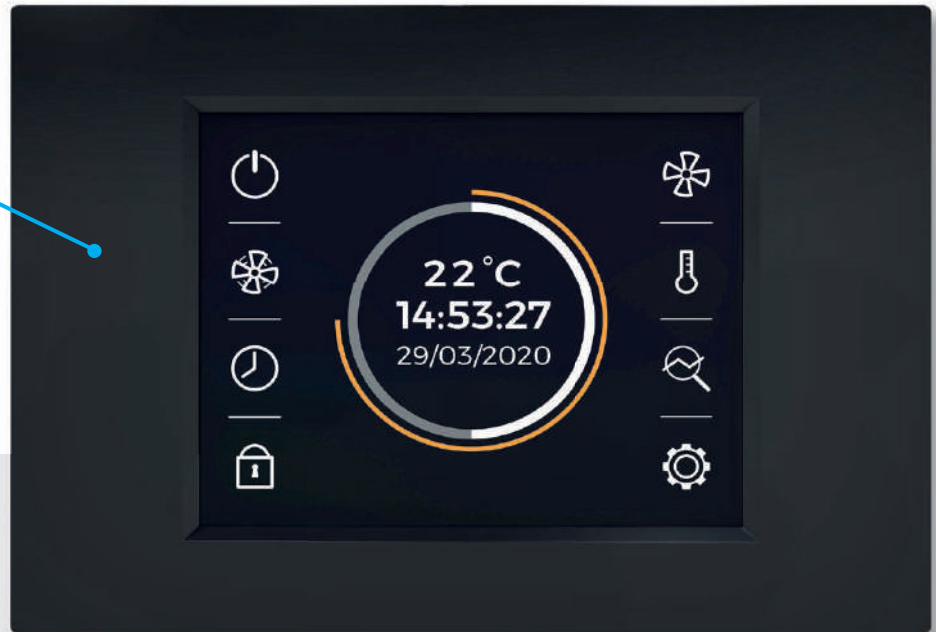
AirGENIO control system





Intelligent • Intuitive • Innovative

2V AirGENIO control system



Heating



Auto-speed

Control based on sophisticated algorithms and temperature data measurements, it operates the device to provide maximum comfort at minimal operating cost.



Self-learning

Eliminates useless start-ups at frequent door openings and thus saves operating cost and increases the device longevity.



Summer Heating

During summer time heating is allowed only if the outside/inside temperature difference exceeds the pre-set scale.



Night Mode

To pre-set time the device would be switched OFF or heat up for pre-set minimal requested room temperature.



Chaining

Possibility to chain 1 master device + 10 slave devices.

Three levels of AirGENIO control

1

AirGENIO Superior for ventilation & heating

Designed for **sophisticated** technical solutions loaded with excellent functionalities that fulfil all types of ventilation and heating requirements including connectivity to BMS, service software or mobile application.

2

AirGENIO Comfort for ventilation & heating

Control system ideal for **standard** technical solutions where wide range of functionalities is insisted on but slight compromises accepted.

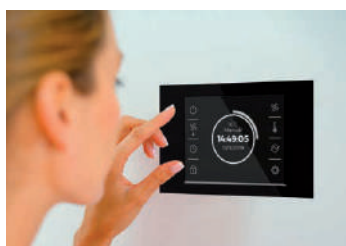
3

AirGENIO Basic for heating only

Mechanical control system with essential functionalities fully covering **basic** technical demands.

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
Fan control	3 speeds (AC) 15-100% (EC)	3 speeds (AC) 15-100% (EC)	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 2V has never been easier

2V BIM DATABASE

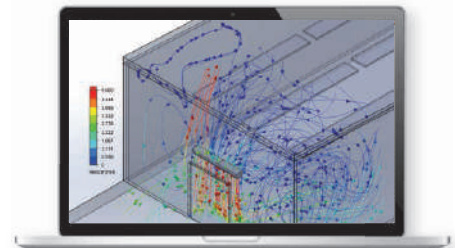
MagiCAD offers designers, engineers and architects access to over 1 million intelligent 3D product models including **the complete 2V's range of Air Curtains and Air Heaters**. MagiCAD can be used with either AutoCAD or Revit.



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 2V 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.

2V SELECTION SOFTWARE Choose&Go

Essential product selecting tool for project design

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

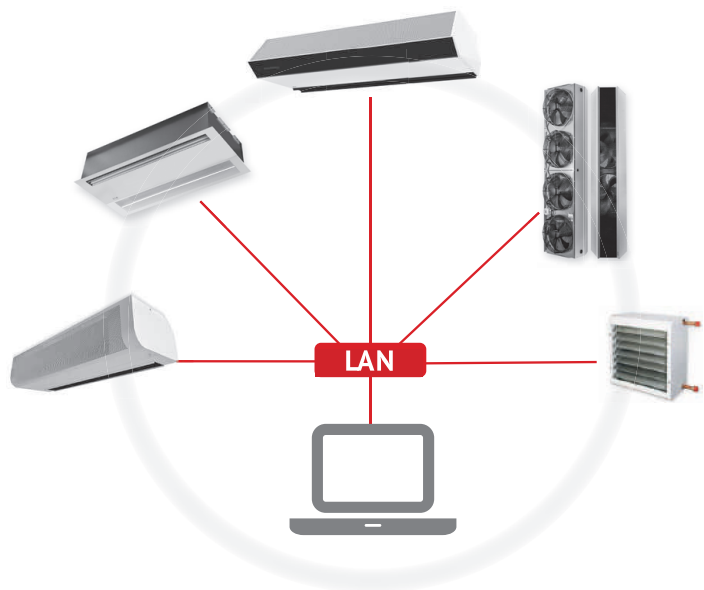
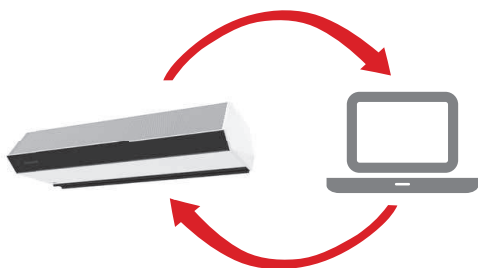


2VV SERVICE SOFTWARE

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 fingertips

- 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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