



PARTNER  
IN VENTILATION  
2VV.CZ

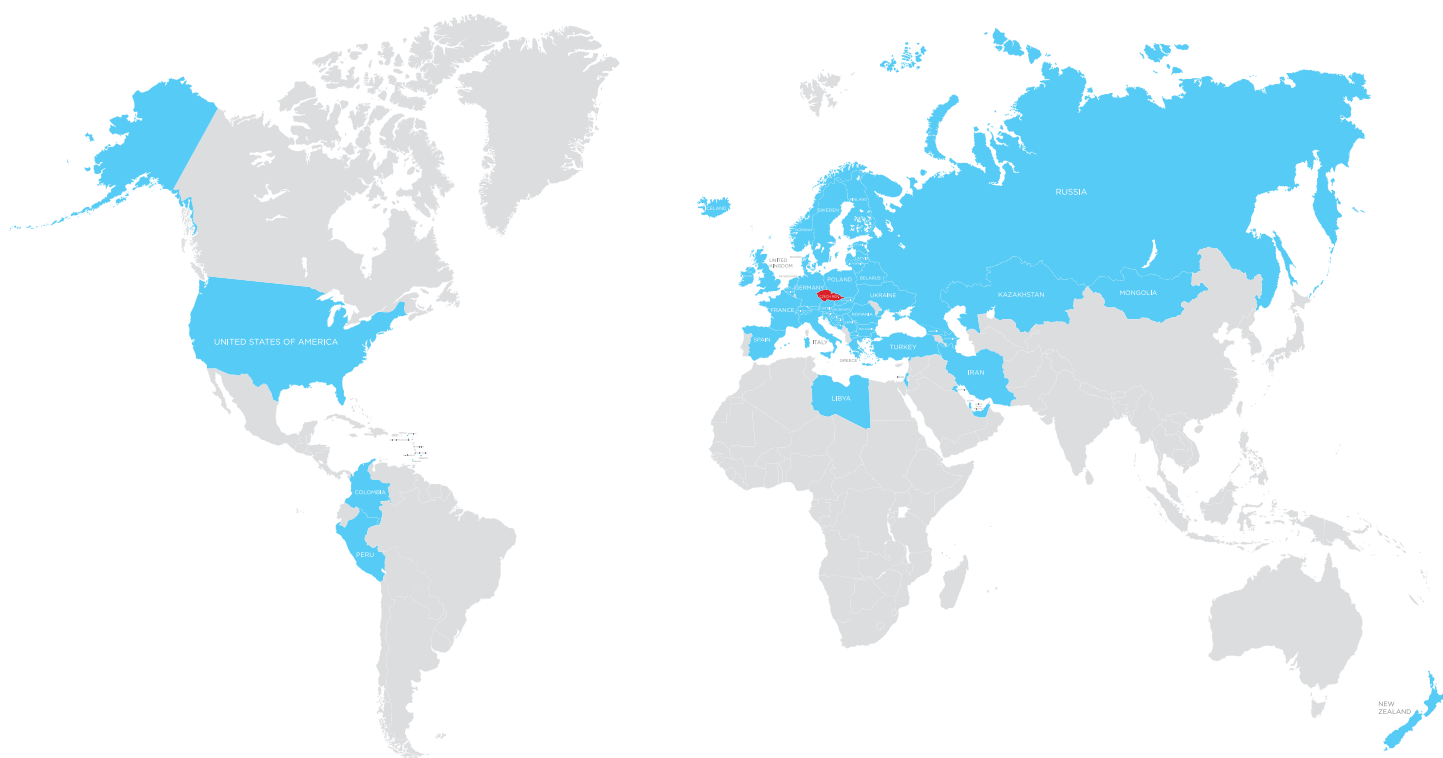
# AIR CURTAINS

Since 1997

COMFORT AND SAVINGS



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2VV.CZ



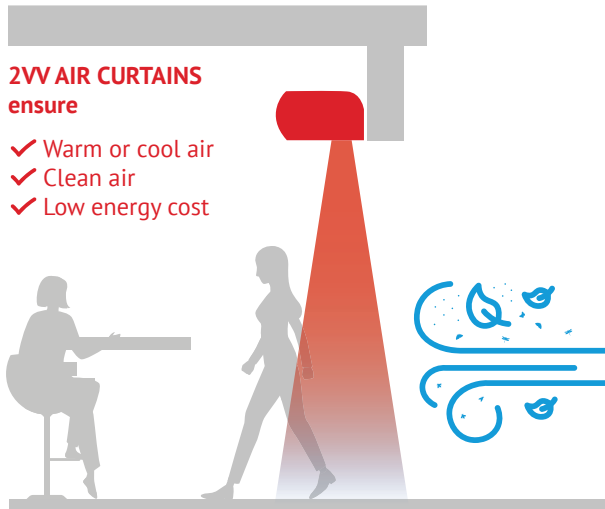
## DISTRIBUTORS IN 45 COUNTRIES AROUND THE WORLD

- 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**

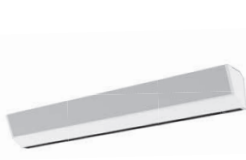
- Non-heated and water heated airstream both with the same air velocity
- Limited heat losses and reduced heating demand
- Excellent comfort in screened area

**DUAL  
AIRSTREAM**

# 2VV AIR CURTAINS



**BASIC**



**ENTRESSE**
















































**ESSENSSE  
NEO**

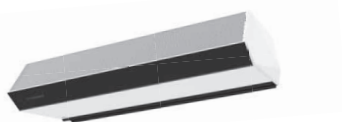


**STANDESSE**



**FINESSE**

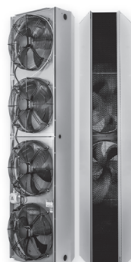
Applications	Fast-food facilities, drive-thru restaurants, petrol stations, receptions	Shops, restaurants, cafes, bars, petrol stations	Shops, shopping centres, restaurants, administrative buildings	Banks, luxury shops, shopping centres, administrative buildings, airports	Banks, administrative buildings, shopping centres, airports
Airflow	<b>up to 345 m<sup>3</sup>/h</b>	<b>1,250–2,640 m<sup>3</sup>/h</b>	<b>1,500–6,150 m<sup>3</sup>/h</b>	<b>1,550–6,400 m<sup>3</sup>/h</b>	<b>1,700–6,600 m<sup>3</sup>/h</b>
Fan type			 	 	 
Installation	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal Recessed
Door height / width	Recommended height up to <b>1.5 m</b>	Recommended height up to <b>2.5 m</b>	Recommended height up to <b>4 m</b>	Recommended height up to <b>5 m</b>	Recommended height up to <b>5 m</b>
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



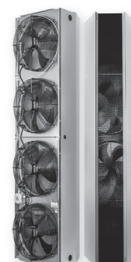
**VENESSE**



**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 <sup>3</sup> /h	up to 4,700 m <sup>3</sup> /h	10,300–19,000 m <sup>3</sup> /h	10,300–19,000 m <sup>3</sup> /h	10,500–17,500 m <sup>3</sup> /h
		 	 	
Horizontal	Vertical	Horizontal / Vertical	Horizontal / Vertical	Horizontal / Vertical
Recommended height up to <b>6 m</b>	Recommended width up to <b>4 m</b>	Recommended height/width up to <b>8 m</b>	Recommended height/width up to <b>8 m</b>	Recommended height/width up to <b>7.5 m</b>
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
 	 	 	 	 

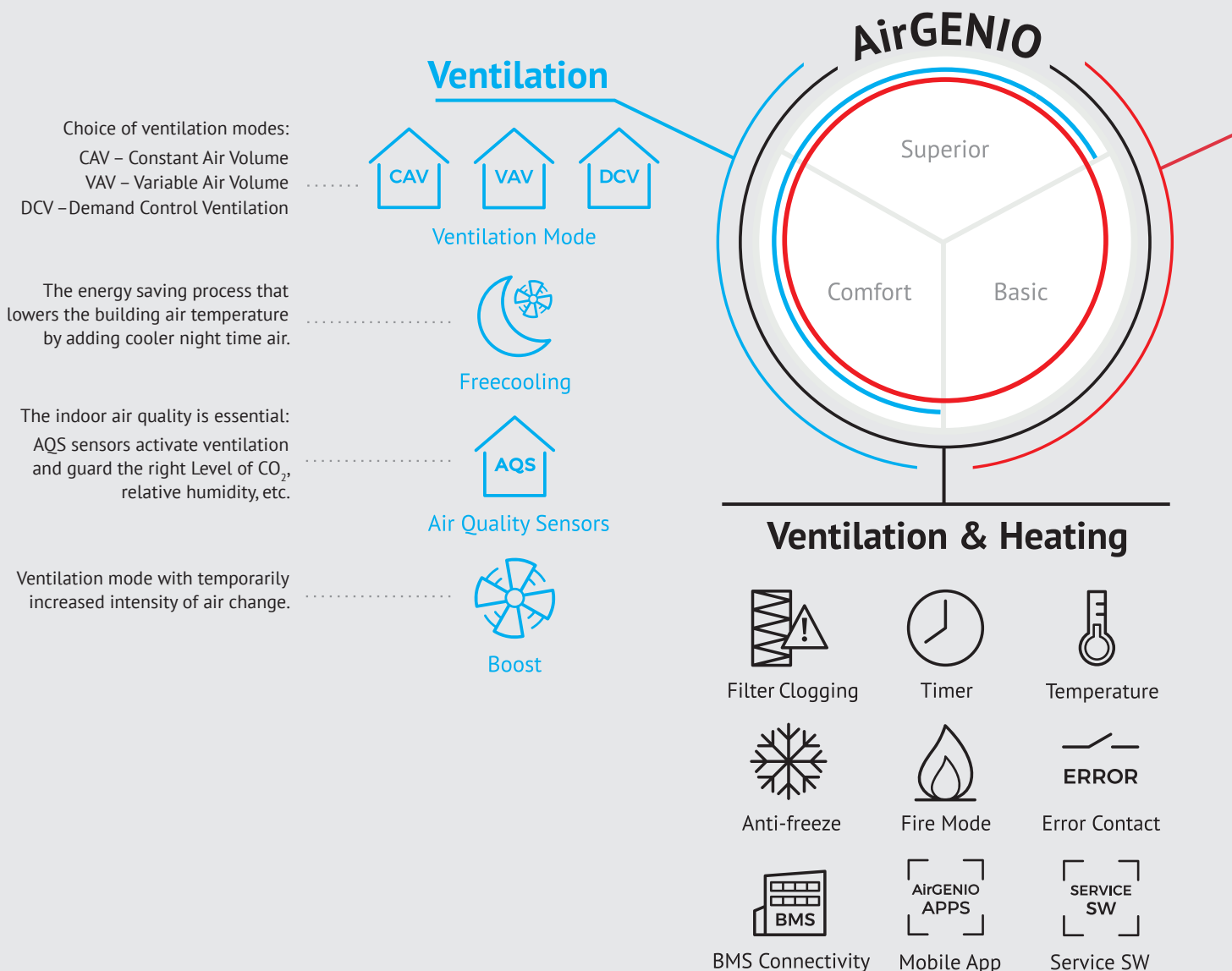
# AirGENIO CONTROL SYSTEM



## 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.

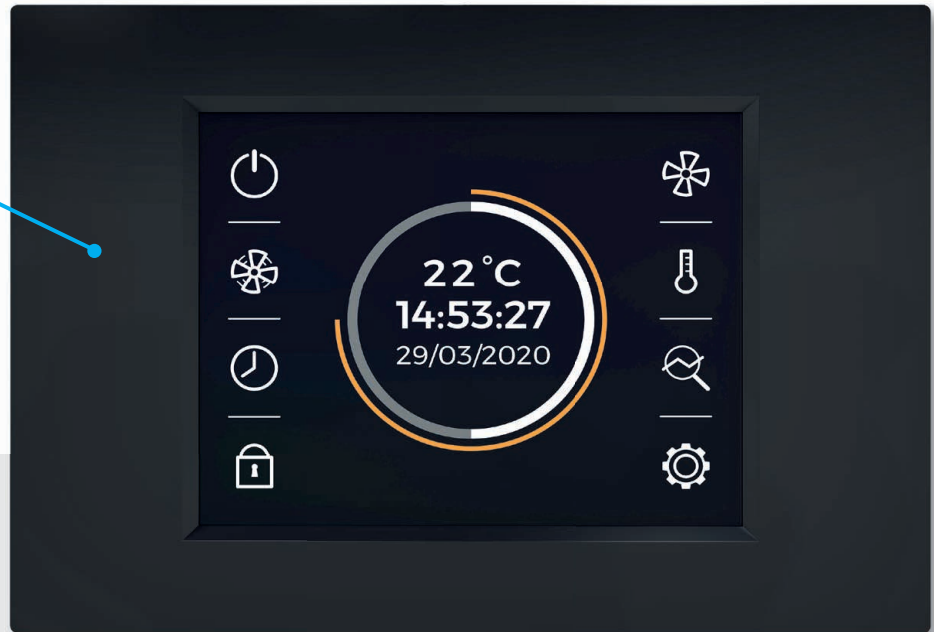
### AirGENIO control system





## 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

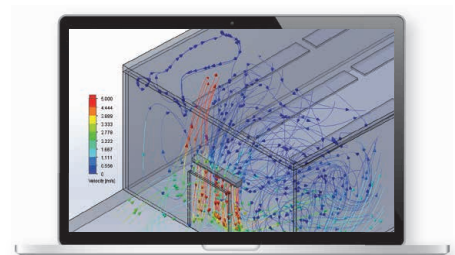
MagiCAD offers designers, engineers and architects access to over 1 million intelligent 3D product models including **the complete 2V's range of Air Curtains and Air Heaters**. MagiCAD can be used with either AutoCAD or Revit.



## 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...)

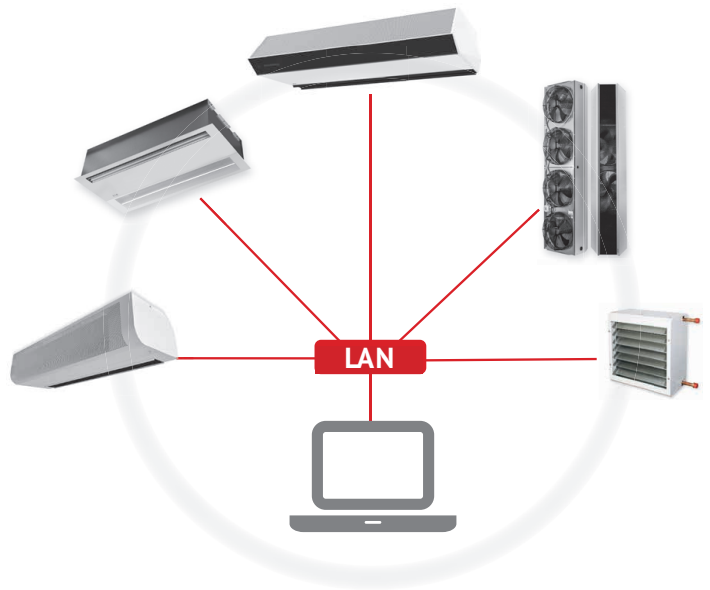
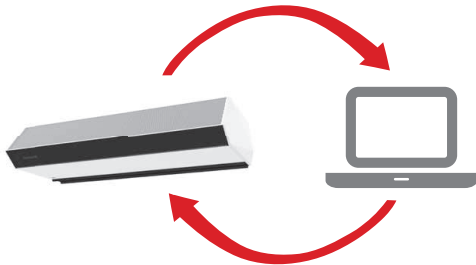


## 2VV SERVICE SOFTWARE

### 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

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### 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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