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AIR CURTAINS

Since 1997

COMFORT AND SAVINGS

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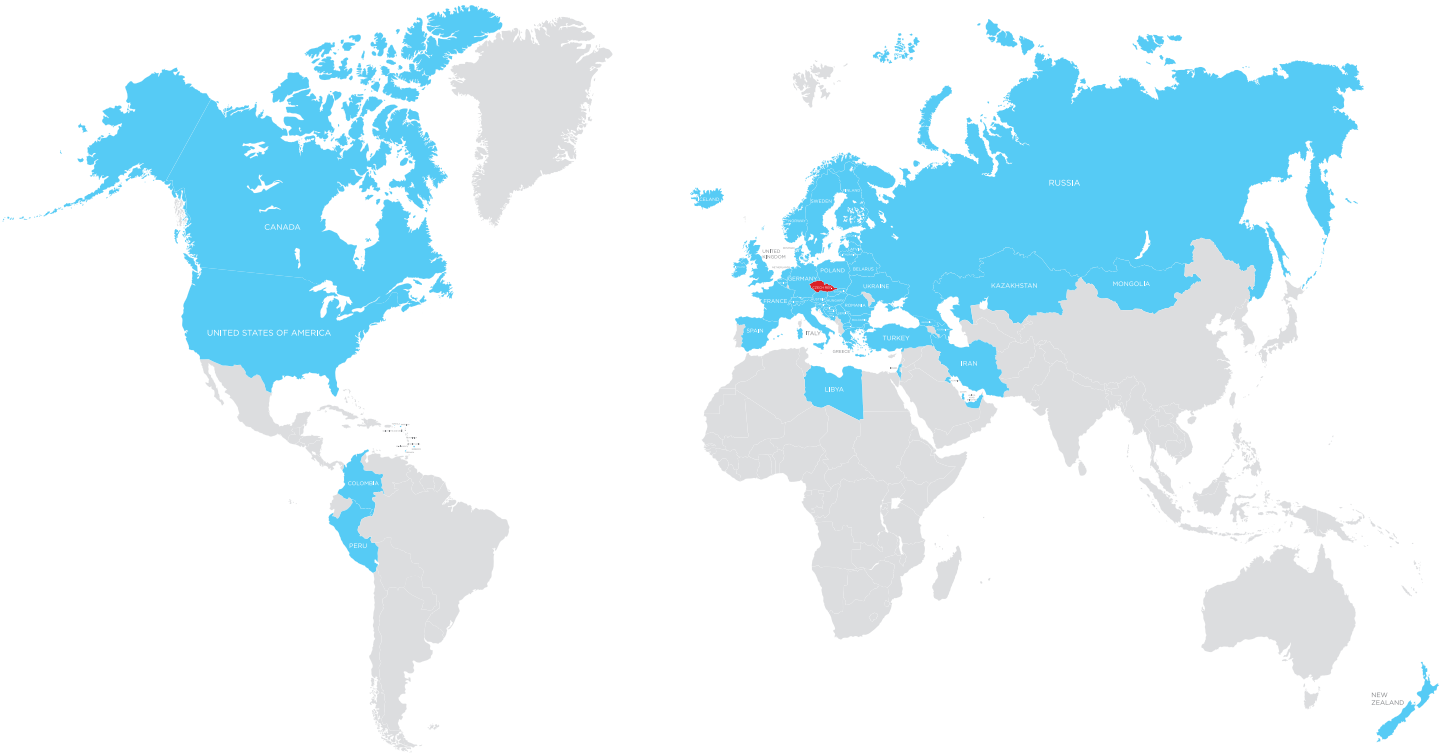


DISTRIBUTORS IN 45 COUNTRIES AROUND THE WORLD

- 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

U.S. GREEN BUILDING COUNCIL MEMBER

CORRESPONDING MEMBER EUROVENT

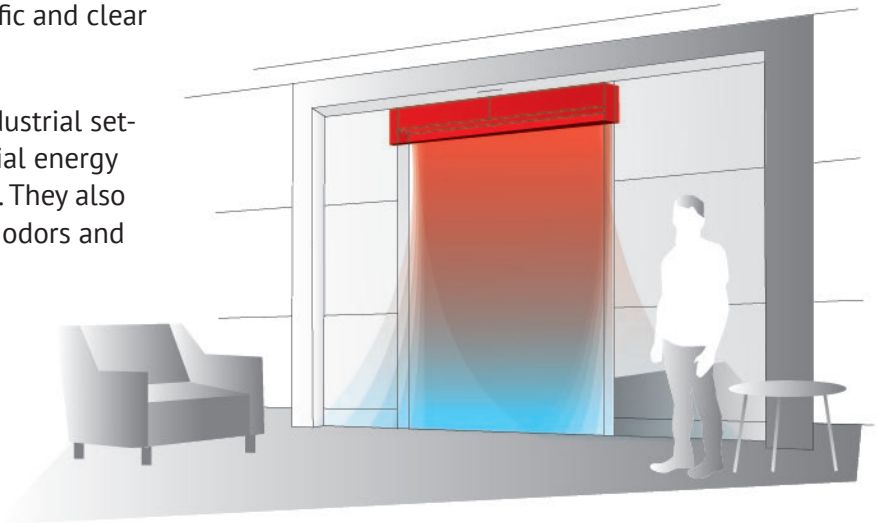
CE

AIR CURTAINS: PRIORITIZING ENERGY SAVINGS

An air curtain is a device that blows a variably controlled airstream across a door opening, creating an air seal while allowing continuous traffic and clear visibility through the door.

Whether installed in commercial or industrial settings, the air curtains provide substantial energy savings and enhance personal comfort. They also help to prevent the infiltration of dust, odors and flying insects.

2VV Air Curtains are suitable for small shops and cafes, commercial and public buildings, hotel and restaurants, warehouses and other industrial premises.



KEY TO SUCCESS: RIGHT SELECTION & PROPER INSTALLATION

Achieving optimal performance and efficiency with air curtains relies on the air curtain selection and its installation.

CORRECT SIZING
The air curtain's width, height and airflow capacity must match the door dimensions, undersized unit can lead to inefficiency or reduced effectiveness.

BALANCED AIRFLOW
The air velocity should be strong enough to reach the floor; speed and airflow direction should be adjusted to optimise the performance.

PROPER POSITIONING
Air curtain must be mounted directly above the doorway ensuring full coverage of the opening.

SEAMLESS INTEGRATION WITH DOOR OPERATION
The air curtain's control system should be synchronized with a door sensor to activate only when needed, ensuring energy efficiency.

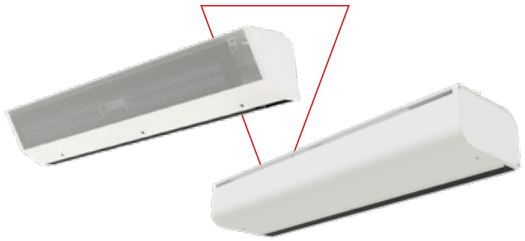
The project design should always be developed and implemented by a qualified HVAC specialist to ensure optimal performance, energy efficiency, and compliance with industry standards.

2VV AIR CURTAINS

Versatile climate control for any doorway

SMALL shops

Recommended installation height **up to 3 m**



Designed for compact entrances, it provides an effective barrier against outdoor air while maintaining indoor comfort. Its energy-efficient operation helps reduce heating and cooling costs, making it ideal for small retail spaces.

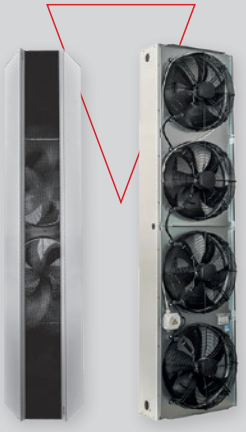
COMMERCIAL buildings

Recommended installation height **up to 6 m**

Perfect for shopping malls, offices, and restaurants, it ensures a comfortable indoor climate by preventing drafts and dust infiltration. With a powerful airflow and stylish design, it enhances energy efficiency while maintaining an open-door policy.

INDUSTRIAL premises

Recommended installation height **up to 8 m**



Built for warehouses, factories, and any industrial settings, this high-performance air curtain effectively separates indoor and outdoor environments. Its robust construction and strong airflow prevent heat loss and protect against contaminants, ensuring a stable working atmosphere.

AirGENIO control system

Discover the unified and integrated control in 2VV air curtains.

AirGENIO PRIME

This control type is an advanced, yet user-friendly solution designed to optimize climate separation with cutting-edge technology. With minimal maintenance needs, AirGENIO PRIME provides a smart, reliable, and energy-efficient approach to air curtain control, enhancing both performance and convenience.

COMPLEXITY IN DESIGN

- Advanced Features
- Energy Optimization Algorithms
- Integration with BMS
- Cloud Capabilities

Wifi
connection

SIMPLICITY IN OPERATION

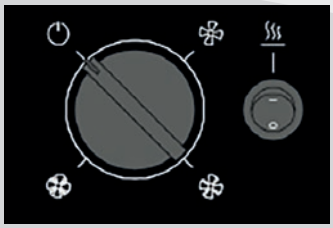
- Intuitive Interface
- Automated control
- Preset Modes
- Minimal Maintenance Needs

AirGENIO PRIME APPLICATION

- Controller extended functionalities
- Advanced settings
- User-friendly interface
- Wifi communication

AirGENIO BASIC

Straightforward and reliable control for managing air curtains with ease. Ideal for users who need basic functionality with minimal effort.

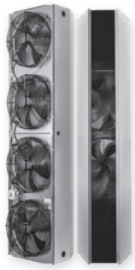


EASY CONTROL MADE SIMPLE

- Manual fan speed control
- On/Off switch for heat control
- External switch connection

2VV AIR CURTAINS

ENTRESSE	ESSENSSE NEO	STANDESSE	FINESSE	STANDESSE XP standesse.com
Shops, restaurants, cafes, bars, petrol stations	Shops, shopping centres, restaurants, administrative buildings	Banks, hotels, administrative buildings, shopping centres, airports	Banks, luxury shops, shopping centres, administrative buildings, airports	Airports, shopping centres, administrative buildings, other public premises
1.330–2.450 m³/h	**1.300–4.800 m³/h**	**1.550–6.400 m³/h**	**1.700–6.600 m³/h**	**6.000–12.000 m³/h**
Recommended height up to **2.5 m**	Recommended height up to **3 m**	Recommended height up to **5 m**	Recommended height up to **5 m**	Recommended height up to **6 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
AC FANS STRAW SYSTEM WIRE HEATER	AC FANS EC FANS STRAW SYSTEM WIRE HEATER 2W AirGENIO PRIME	AC FANS EC FANS LOW NOISE WIRE HEATER 2W AirGENIO PRIME	AC FANS EC FANS LOW NOISE WIRE HEATER 2W AirGENIO PRIME	EC FANS STRAW SYSTEM LOW NOISE
IR control (integrated) 	**AirGENIO control** (integrated) PRIME BASIC	**AirGENIO control** (integrated) PRIME BASIC	**AirGENIO control** (integrated) PRIME BASIC	**AirGENIO control** (integrated) SUPERIOR

VENESSE	INDESSE	INDESSE INOX	INDESSE GP
			
Banks, offices, restaurants, hotels, shopping centres	Manufacturing facilities, warehouses, distribution centres	Manufacturing facilities, warehouses, distribution centres	Manufacturing facilities, warehouses, distribution centres
up to 4.700 m³/h	**10.300–19.000 m³/h**	**10.300–19.000 m³/h**	**10.500–17.500 m³/h**
Recommended height up to **4 m**	Recommended height up to do **8 m**	Recommended height up to do **8 m**	Recommended height up to do **7.5 m**
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
AC FANS WIRE HEATER LOW NOISE	AC FANS EC FANS STRAW SYSTEM WIRE HEATER 2W AirGENIO PRIME	AC FANS EC FANS STRAW SYSTEM C4 CLASS 2W AirGENIO PRIME	EC FANS STRAW SYSTEM DUAL AIRSTREAM 2W AirGENIO PRIME
AirGENIO control (integrated)	**AirGENIO control** (external control unit)	**AirGENIO control** (external control unit)	**AirGENIO control** (external control unit)
SUPERIOR COMFORT	IC-PRIME BASIC EC	IC-PRIME BASIC EC	IC-PRIME BASIC EC

AirGENIO control system

AirGENIO control provides various solutions from high-tech to basic level allowing the client to customize their controls.

	PRIME	IC-PRIME	BASIC	COMFORT	SUPERIOR
Control type	Display & capacity buttons	Display & capacity buttons	Manual	Touchscreen	Touchscreen
Mode	Manual / Auto	Manual / Auto	Manual	Manual / Auto	Manual / Auto
AC Fan control	3 steps	5 steps	3 steps	3 steps	3 steps
EC Fan control	PWM/0-10V	PWM/0-10V	PWM/0-10V	PWM/0-10V	PWM/0-10V
Electric heater control	PWM	PWM	0 / 50% / 100%	0 / 50% / 100%	PWM
Water heater control	ON-OFF or 0-10V	ON-OFF or 0-10V	ON-OFF	ON-OFF or 0-10V	0-10V
Status indication	✓	✓	×	✓	✓
AirGENIO PRIME application	✓	✓	×	×	×
Auto-speed control	✓	✓	×	✓	✓
Timer	✓	✓	×	✓	✓
Temperature control	✓ In control panel	✓ In control panel	×	✓ (NTC)	✓ (NTC)
DOOR contact connection	✓ (12V, 230V)	✓ (12V, 230V)	✓ (230V only)	✓ (12V, 230V)	✓ (12V, 230V)
Summer mode	✓	✓	×	✓	✓
Night mode	✓ timer to be used	✓ timer to be used	×	✓	✓
Antifreeze protection (LPHW)	✓	✓	×	✓	✓
Chaining	✓ (max. 10 pcs)	✓ (max. 10 pcs)	×	✓ (max. 1+10 pcs)	✓ (max. 1+10 pcs)
Clean intervals	✓	✓	×	✓	✓
ERROR contact	✓	✓	×	✓	✓
External control	✓	✓	×	✓	✓
BMS connection	Modbus RTU, TCP BACnet	Modbus RTU, TCP BACnet	×	Modbus RTU	Modbus RTU, TCP BACnet
CLOUD connection	✓	✓	×	×	✓

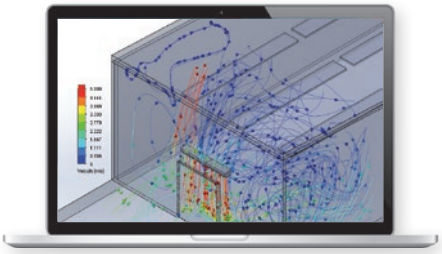
DATA MEASUREMENT STANDARDS

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.

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 2VV 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.

MagiCAD - 3D MODELS

Building design with 2VV has never been easier

2VV BIM DATABASE

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

2VV SELECTION SOFTWARE Choose&Go

Essential product selecting tool for project design

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

REFERENCES

FINESSE | STANDESSE
Airport Pardubice | Czech Republic

The FINESSE and STANDESSE air curtains welcome passengers at Pardubice Airport. As soon as you enter the new terminal, you will be greeted by FINESSE air curtains equipped with electric heating. Two 1.5-meter long units have been installed at each entrance, providing full coverage of the entire door opening with their performance. The FINESSE air curtains were specifically designed for ceiling-mounted installations in spaces such as airport halls, banks, and other prestigious areas.

INDESSE
LIKO-Vo living building | Czech Republic

INDESSE air curtains save energy at the vibrant LIKO-Vo building.
We delivered INDESSE air curtains to the LIKO-s production facility in Slavkov u Brna, a living building focused on natural thermal stabilization with green roofs, facades, and retention ponds. Six 6-meter modular units were installed vertically, controlled by the AirGENIO system (MASTER/SLAVE), and connected to the central BMS. The air curtains maintain a comfortable indoor environment, save energy, and support an eco-friendly approach.

VENESSE
PALAC PARDUBICE | Czech Republic

VENESSE air curtains at Palac Pardubice – welcoming comfort and efficiency at every entrance.
Palac Pardubice is the central shopping mall and a popular gathering spot for many locals. At every entrance, they are welcomed by VENESSE air curtains, providing a year-round comfort barrier. By the way, Pardubice is also the home of 2VV.

STANDESSE
VIENNA AIRPORT | Austria

STANDESSE air curtains at Vienna Airport – welcoming passengers while enhancing comfort and energy efficiency
We supplied STANDESSE air curtains to Vienna Airport, enhancing passenger comfort while maintaining energy efficiency. The air curtains are installed at key entrances, providing an effective barrier against temperature fluctuations. Controlled by an intelligent system, they ensure optimal performance and are integrated with the airport's central BMS. The STANDESSE air curtains help create a comfortable indoor environment, reduce energy consumption, and contribute to a sustainable approach in the airport's operations.

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BUILT TO DELIVER

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