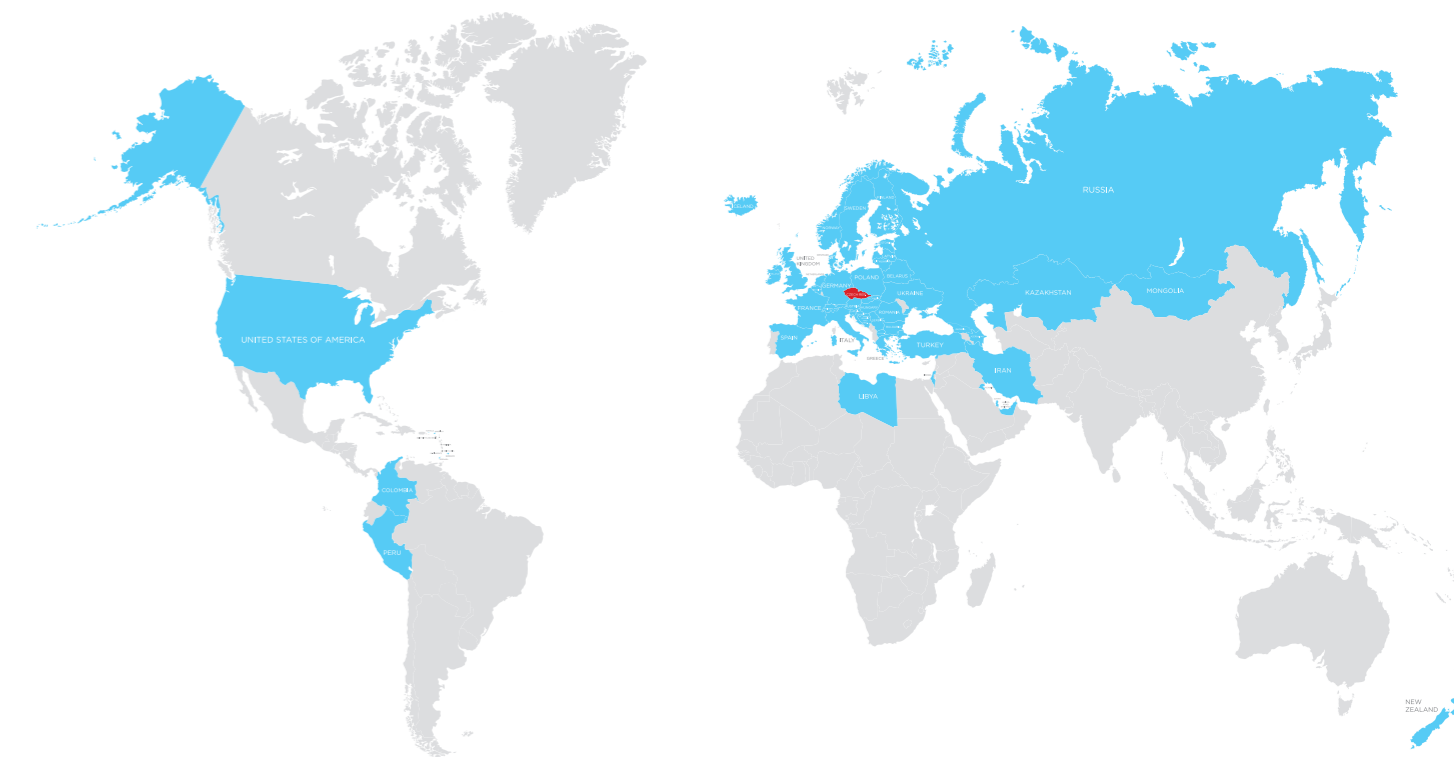# AIR
CURTAINS

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

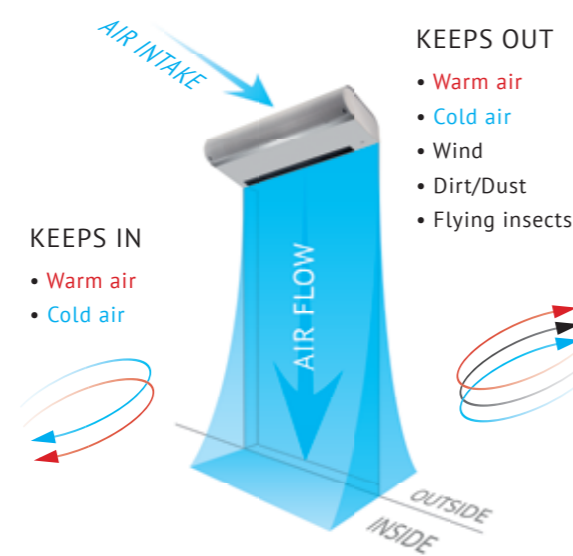CORRESPONDING MEMBER
EUROVENT
CE

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
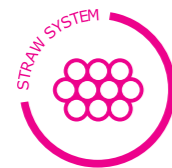- Significant energy saving

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

AIR INTAKE

KEEPS OUT
- Warm air
- Cold air
- Wind
- Dirt/Dust
- Flying insects

KEEPS IN
- Warm air
- Cold air

AIR FLOW

OUTSIDE
INSIDE

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 Curtians 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
- Limited heat losses and reduced heating demand
- Excellent comfort in screened area

DUAL AIRSTREAM

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.

BIM ready with
MagiCAD
magicad.com

2VV SELECTION SOFTWARE ChooseGO

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..)

2VV AirGENIO APP

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 APP** and have it under your control!

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.

Measurements
ISO 27327
according to

REFERENCES

INDESSE
Manufacturing facility ŠKODA
Mladá Boleslav, Czech Republic

INDESSE
International Airport ASHGABAT
Ashgabat, Turkmenistan

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

ESSENSSE
Shopping centre SCALO MILANO
Milan, Italy

INDESSE
University hospital NEW KAROLINSKA SOLNA
Stockholm, Sweden

2VV Air Curtains are equipped with modern and intuitive controls **AirGENIO** which are able to adjust efficiently the air curtains' performance to any application.

Fan speeds and heating output are controlled automatically according to the concrete conditions and the maximal air curtain's efficiency is reached with minimal costs.

- Possibility to control AC / EC motors
- Smart functions
- Anti-freeze protection

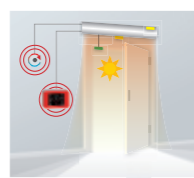|	AirGENIO BASIC	AirGENIO COMFORT	AirGENIO SUPERIOR	AirGENIO IC-C
TYPE OF CONTROLLER	manual dial	touch screen	touch screen	touch screen
MODE	manual	manual	auto / manual	auto / manual
AIRFLOW CONTROL	3 speeds	3 speeds	3 speeds (AC) 5 speeds (EC)	5 speeds (AC) 10 speeds (EC)
ELECTRIC HEATER CONTROL	OFF / level 1 / level 2	OFF / level 1 / level 2	✔ (PWM)	✔ (PWM)
WATER HEATER CONTROL	ON/OFF	ON/OFF	0-10V	0-10V
DOOR CONTACT	✔	✔ (12V, 230V)	✔ (12V, 230V)	✔
TEMPERATURE MEASUREMENT	✖	✔	✔ (NTC)	✔ (NTC)
CHAINING AIR CURTAINS	✖	✔ – max 10+1 pcs	✔ – max 10+1 pcs	✔ – max 10+1 pcs
BMS CONNECTION	✖	✔ – Modbus RTU/TCP or BACnet	✔ – Modbus RTU/TCP or BACnet	✔ – Modbus RTU/TCP or BACnet

AirGENIO SUPERIOR control, AirGENIO IC-C control
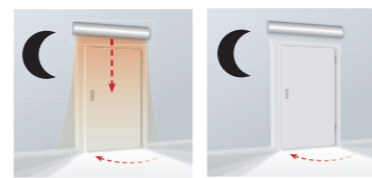
Smart functionality:

Auto-speed control
AirGENIO Superior control together with integrated temperature sensors ensures the air curtain operation at maximum comfort and the lowest operating cost
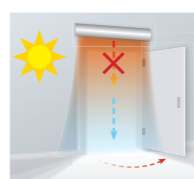
Summer heating
During pre-set (summer) time period the air curtain heats up only if the outside/inside temperature difference exceeds the pre-set scale

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

Nigh mode
For pre-set time period the air curtain is automatically switched OFF or heats up for minimal requested room temperature
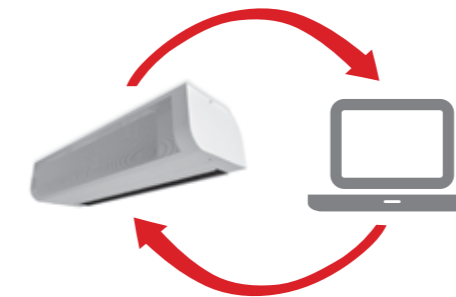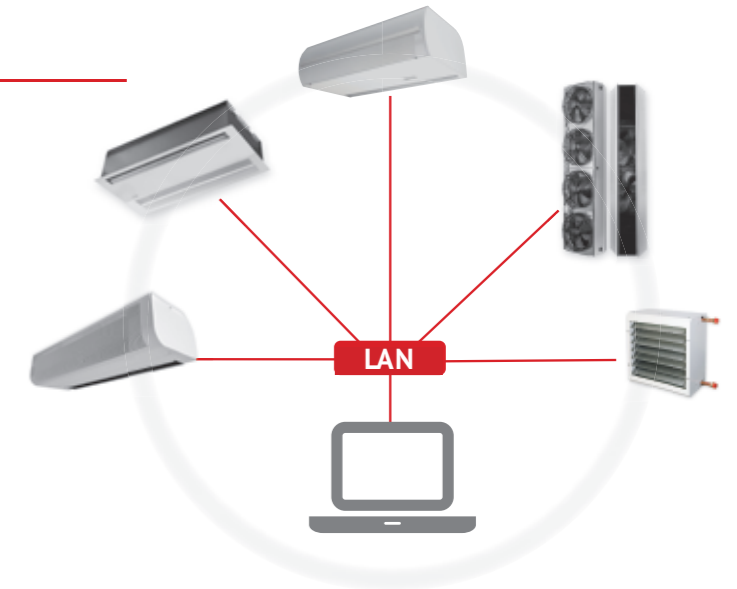
- **Other functions:**
  - Integrated timer (day/week/year)
  - Door switch functions
  - Heating boost
  - Control via SmartPhone App

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)
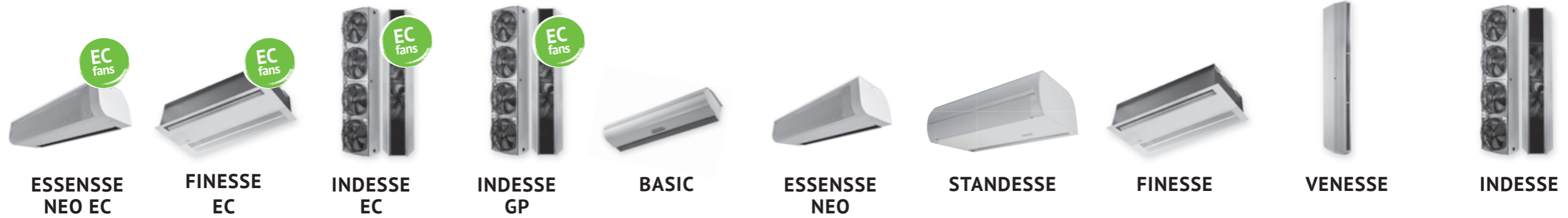- Fast FW update
- OFFLINE version

LAN

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

2VV AIR CURTAINS

	ESSENSSE NEO EC	FINESSE EC	INDESSE EC	INDESSE GP	BASIC	ESSENSSE NEO	STANDESSE	FINESSE	VENESSE	INDESSE
APPLICATION	Shops, shopping centres, restaurants, administrative buildings	Banks, administrative buildings, shopping centres, airports	Manufacturing facilities, warehouses, distribution centres	Manufacturing facilities, warehouses, distribution centres	Fast-food facilities, drive-thru restaurants, petrol stations, receptions	Shops, shopping centres, restaurants, administrative buildings	Banks, luxury shops, shopping centres, administrative buildings, airports	Banks, administrative buildings, shopping centres, airports	Banks, offices, restaurants, hotels, shopping centres	Manufacturing facilities, warehouses, distribution centres
AIR FLOW	1,850 - 5,600 m³/h	1,810 - 4,610 m³/h	10,500 - 19,000 m³/h	10,500 - 19,000 m³/h	Air flow up to 475 m³/h	1,500 - 5,700 m³/h	2,200 - 6,300 m³/h	2,140 - 6,100 m³/h	Air flow up to 5,500 m³/h	10,300 - 18,500 m³/h
RECOMMENDED INSTALLATION HEIGHT	Recommended installation height up to **4 m**	Recommended installation height up to **4 m.** Recessed installation into ceiling spaces	Recommended installation height/width up to **8 m**	Recommended installation height/width up to **8 m**	Recommended installation height up to **1.5 m**	Recommended installation height up to **4 m**	Recommended installation height up to **5 m**	Recommended installation height up to **5 m.** Recessed installation into ceiling spaces	Recommended width of the door opening **4 m** vertical installation	Recommended installation height/width up to **8 m**
TECHNOLOGY	STRAW SYSTEM TECHNOLOGY ZIG-ZAG TECHNOLOGY	FACE 2 IN 1 ZIG-ZAG TECHNOLOGY	STRAW SYSTEM TECHNOLOGY ZIG-ZAG TECHNOLOGY	STRAW SYSTEM TECHNOLOGY DUAL AIRSTREAM SYSTEM	FACE 2 IN 1 ZIG-ZAG TECHNOLOGY	STRAW SYSTEM TECHNOLOGY ZIG-ZAG TECHNOLOGY MODULAR CONTROL SYSTEM	FACE 2 IN 1 ZIG-ZAG TECHNOLOGY MODULAR CONTROL SYSTEM	FACE 2 IN 1 ZIG-ZAG TECHNOLOGY MODULAR CONTROL SYSTEM	ULTRA SILENT	STRAW SYSTEM TECHNOLOGY ZIG-ZAG TECHNOLOGY
LENGTHS	1 m; 1.5 m; 2 m; 2.5 m	1 m; 1.5 m; 2 m; 2.5 m	1.65 m; 2.20 m; 2.75 m	1.65 m; 2.20 m; 2.75 m	0.6 and 0.9 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	Height 2.5 m	1.65 m; 2.20 m; 2.75 m
TYPE	- electric heater - water heater - ambient	- electric heater - water heater - ambient	- electric heater - water heater - ambient	- water heater	- electric heater	- electric heater - water heater - ambient	- electric heater - water heater - ambient	- electric heater - water heater - ambient	- electric heater - water heater - ambient	- electric heater - water heater - ambient
CONTROLS	SUPERIOR AirGENIO control	SUPERIOR AirGENIO control	AirGENIO IC-C control	AirGENIO IC-C control	RF control	SUPERIOR COMFORT BASIC AirGENIO control	SUPERIOR COMFORT BASIC AirGENIO control	SUPERIOR COMFORT BASIC AirGENIO control	DM control	AirGENIO IC-C control
ICONS										