

ESSENSSE NEO

Low-pressure air curtain designed
for exposed installation

2VV PARTNER
IN VENTILATION
2VV.CZ



SMART PERFORMER

ESSENSSE NEO Air curtain



The image shows the interior of a cozy cafe and small shop. The space is filled with wooden tables and chairs, some with white-painted frames. String lights hang from the ceiling, and a large pendant light is visible. In the background, there is a bar area with shelves stocked with bottles and a person working behind the counter. The walls are decorated with framed pictures and posters. The floor is made of light-colored wood.

CAFES AND SMALL SHOPS

Suitable application

The image shows the interior of a modern restaurant and bar. The space is characterized by its industrial aesthetic, featuring exposed wooden beams, concrete floors, and large black pendant lights. The seating consists of long wooden tables and various styles of wooden chairs. In the background, a staircase with wooden steps leads to an upper level. A bar area is visible on the left, with a menu board displaying items like 'PETITENSET BLEND' and 'BRZL. AZENA PISTOL. SLADKY TOLLA'. A man is seated at a table on the right, working on a laptop. The overall atmosphere is bright and airy, with large windows on the right side providing natural light.

RESTAURANT AND BARS

Suitable application



SHOPPING MALLS

Suitable applications



PARTNER
IN VENTILATION
2VV.CZ

PUBLIC BUILDINGS

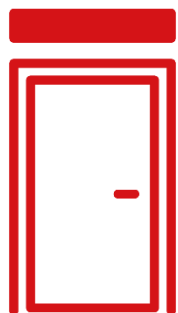
Suitable applications

AIRPORTS

Suitable applications

Flight Information Terminal 3				航班資訊 Info Penerbangan			
Departures		Remarks		Departures		Remarks	
Time	Flight	To	Row	Time	Flight	To	Row
0120	TK 9320	Nagoya	04	0120	NH 6268	Osaka	04
0130	VS 7322	Zurich	04	0130	OU 5815	Cape Town	04
0130	SQ 306	Osaka	04	0130	SA 7231	Seoul	04
0130	SK 8044	Istanbul	10	0145	OZ 754	New Delhi	04
0145	SK 8044	Paris-CDG	04	0225	NH 6278	Jeddah	04
0225	SK 8044	Los Angeles	04	0230	SQ 334	Sydney	04
0230	SK 8044	Sydney	04	0410	SV 837Z		09
0410	SV 837Z		09	0705	TK 9326		04
0705	TK 9326		04				
0715	SQ 265	Brisbane	04				
0725	GA 823	Jakarta	04				
0730	SQ 828	Shanghai	04				
0735	SQ 890	Hong Kong	04				
0740	TK 9306	Perth	04				
0745	TK 9302	Melbourne	04				
0805	SQ 422	Mumbai	04				
0805	OZ 6790	Seoul	04				
0810	NH 6250	Tokyo-HND	04				
	VA 5655	Guangzhou	04				

ESSENSSE NEO



SMART

Compact air curtain
with smart
technologies



PERFORMER

Choice of different
power ranges

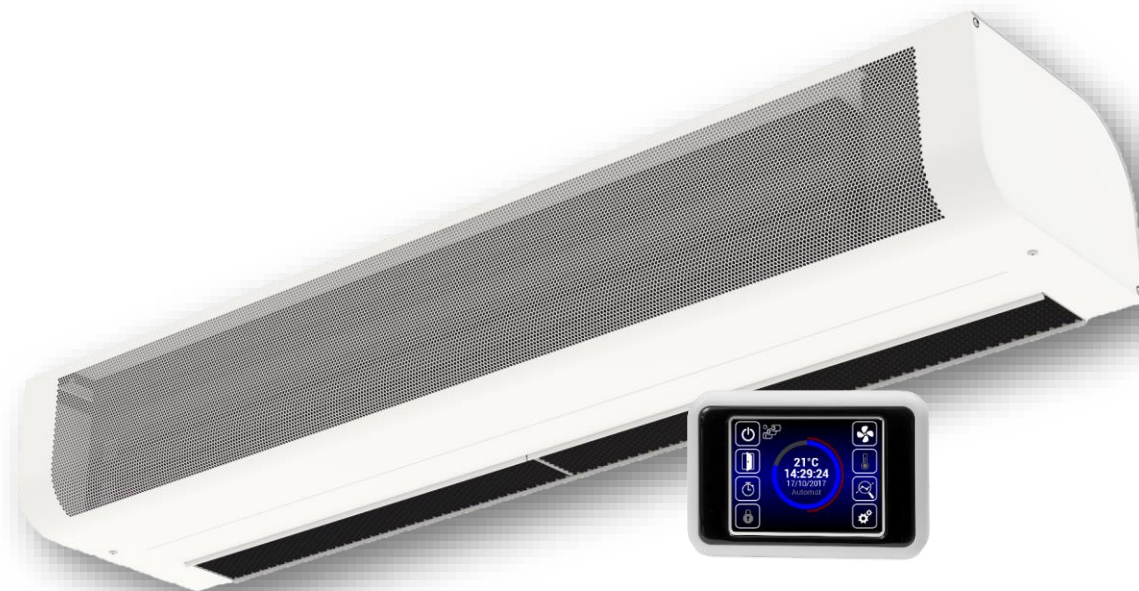


CONTROL

Exceptional AirGENIO
control system

SMART ESSENSSE NEO

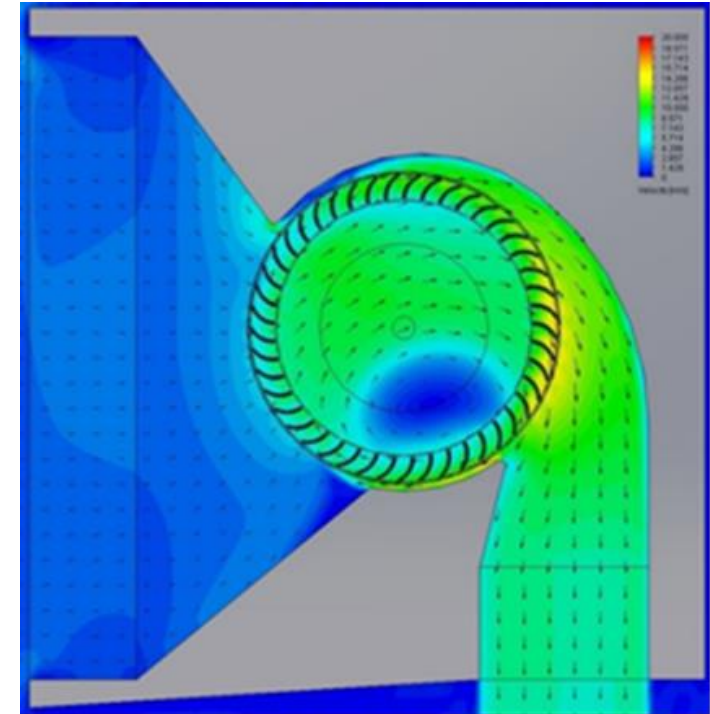
Air curtain



SMART FAN CHAMBER

Optimised airstream

Tangential wheel efficiency reached
by smart fan chamber shape

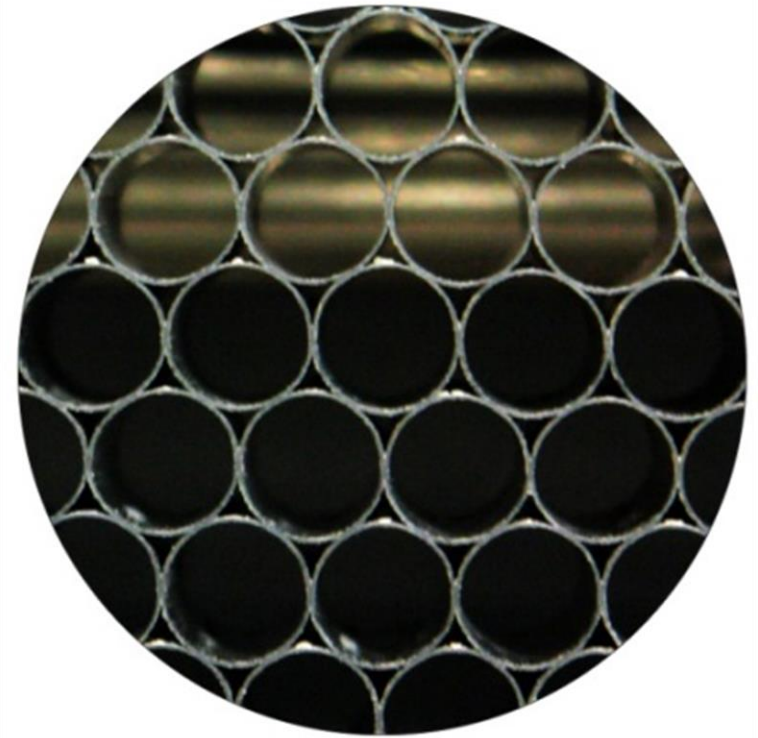


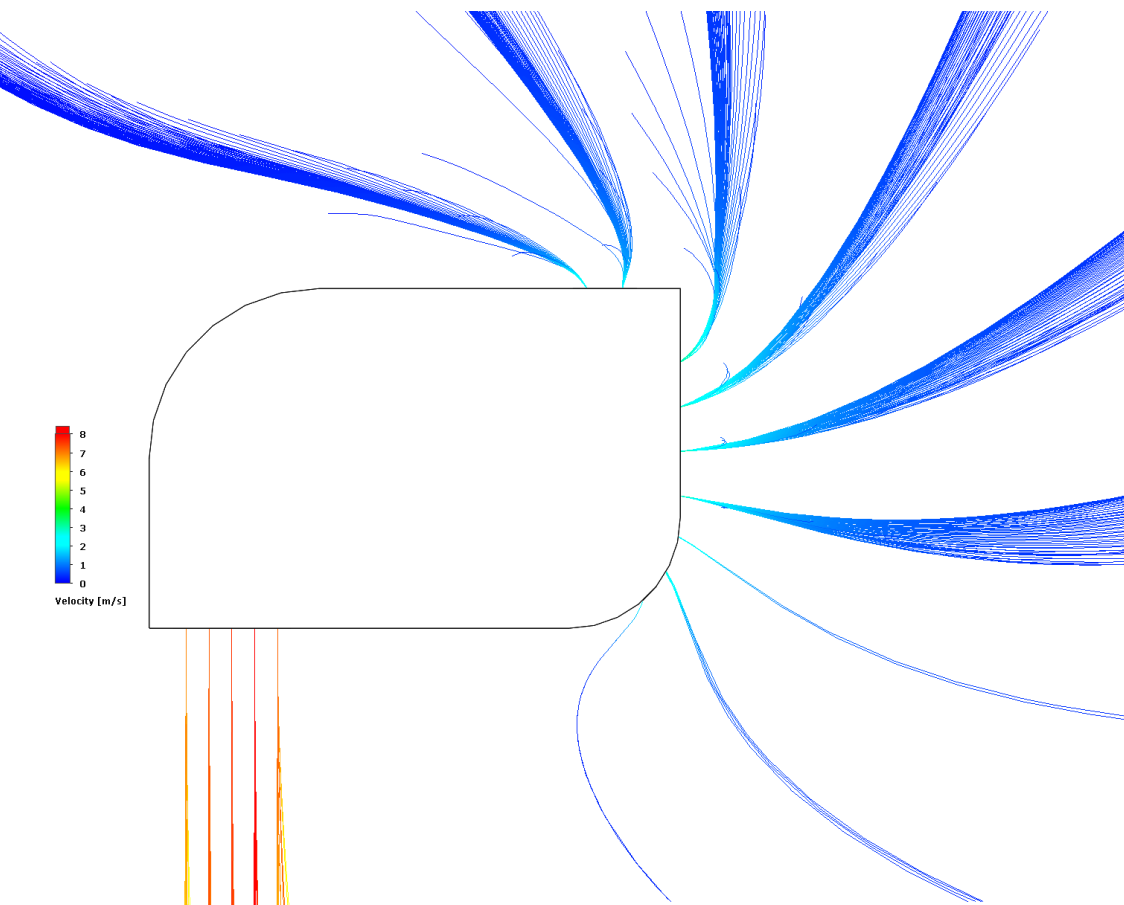
SMART EXHAUST

STRAW SYSTEM Technology

Providing most efficient screening
with excellent airflow reach.

Sound attenuation as a great side
effect.

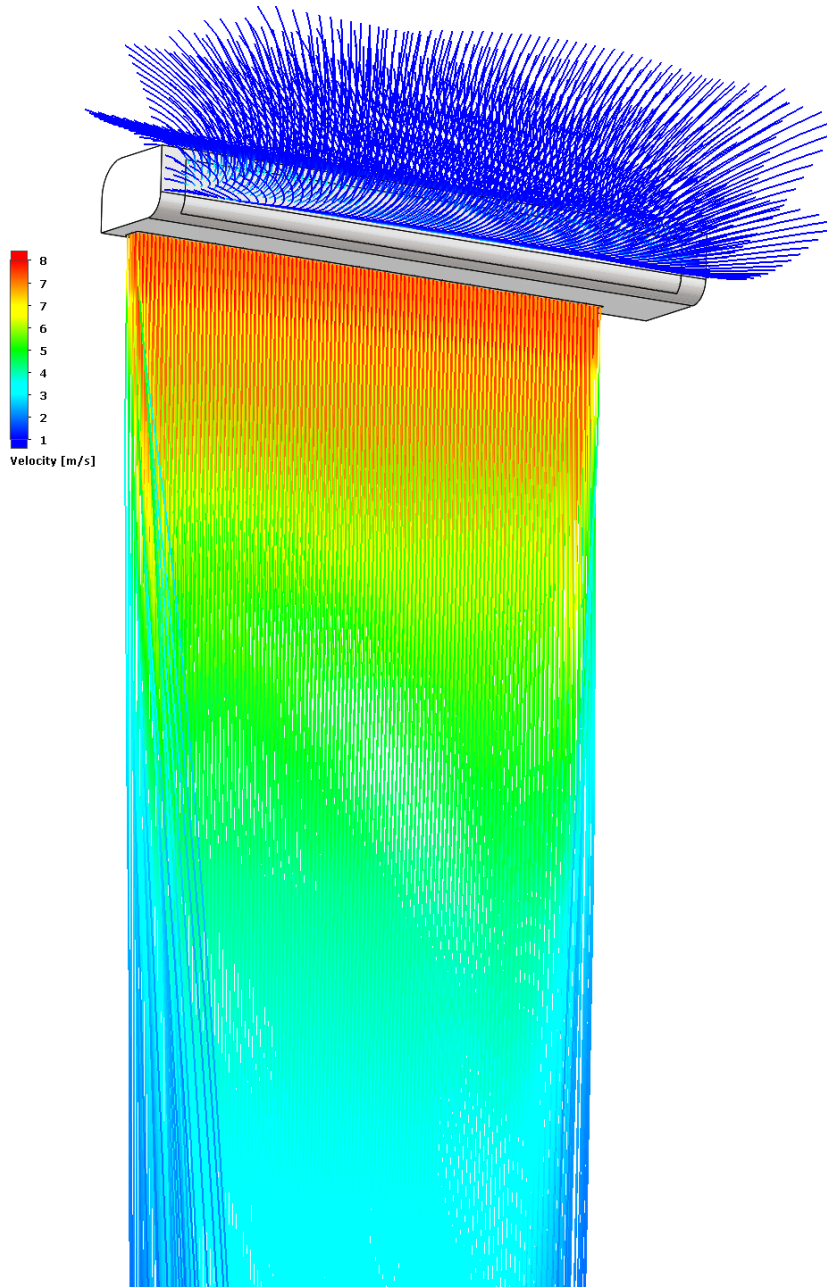




STRAW SYSTEM

COMPACT AND LAMINAR

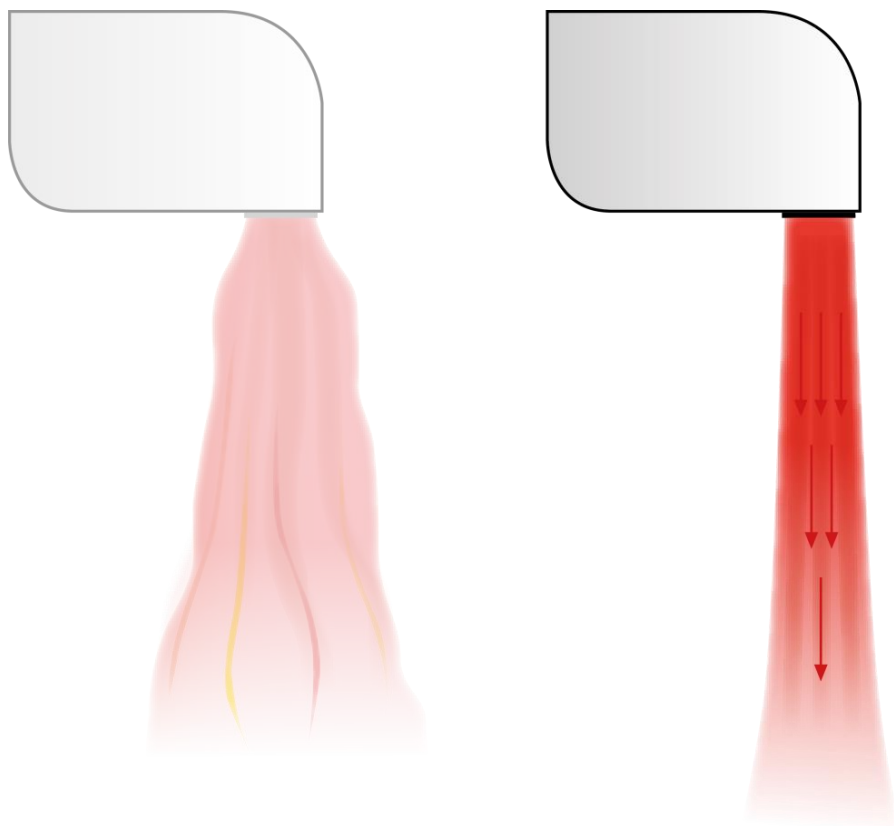
STRAW SYSTEM Technology transforms the turbulent airflow and consolidates it into laminar and compact airflow.



STRAW SYSTEM

STEADY AIR VELOCITY

STRAW-SYSTEM Technology secures constant air velocity over the entire exhaust width and length



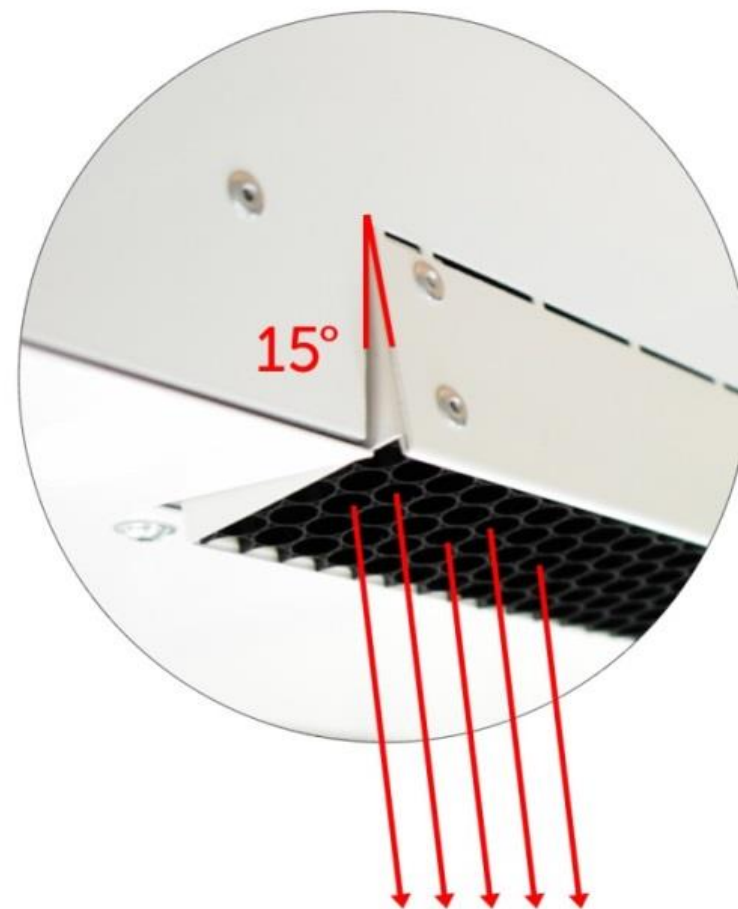
STRAW SYSTEM

EXTENDED AIRFLOW REACH

Straw-System maximises the screening effect

SMART EXHAUST

Adjustable exhaust from 3° to 15°
to improve screening efficiency
where needed.



SMART DIMENSIONS

Compact fit with dimensions
height:252mm x depth:377mm

Same size for the complete range



CASING FINISH

Standard is **RAL9016**

Any **RAL on request** to suit
perfectly to any interior



ESSENSSE NEO PERFORMER

Air curtain



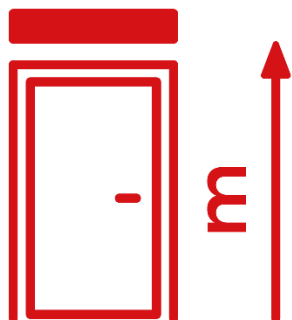
POWER LINES



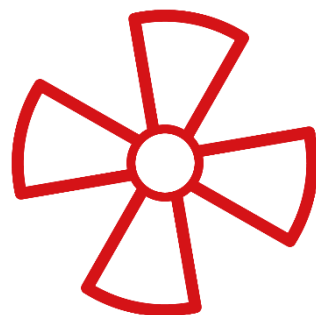
RANGE B

Installation height
up to **3,2m**

RANGE B



Recommended
installation height up
to **3,2m**

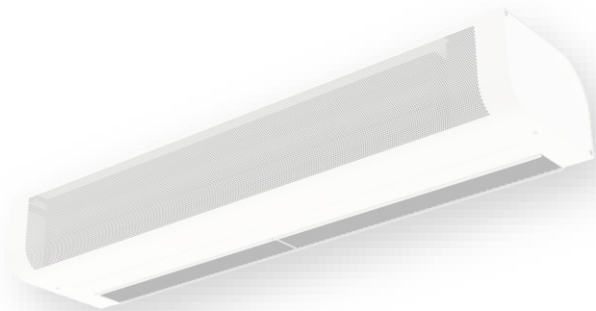


Average airflow is
1.800m³/h/m



Available with **AC** or
EC fans

POWER LINES



RANGE B

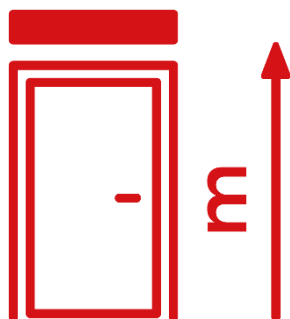
Installation height
up to **3,2m**



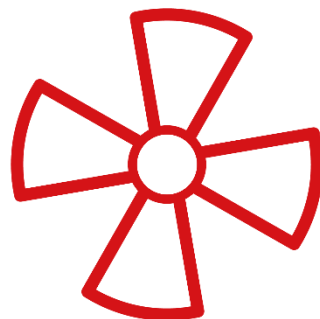
RANGE C

Installation height
up to **4,0m**

RANGE C



Recommended
installation height up
to **4,0m**



Average airflow is
2.300m³/h/m



Available with **AC** or
EC fans

POWER LINES



RANGE B

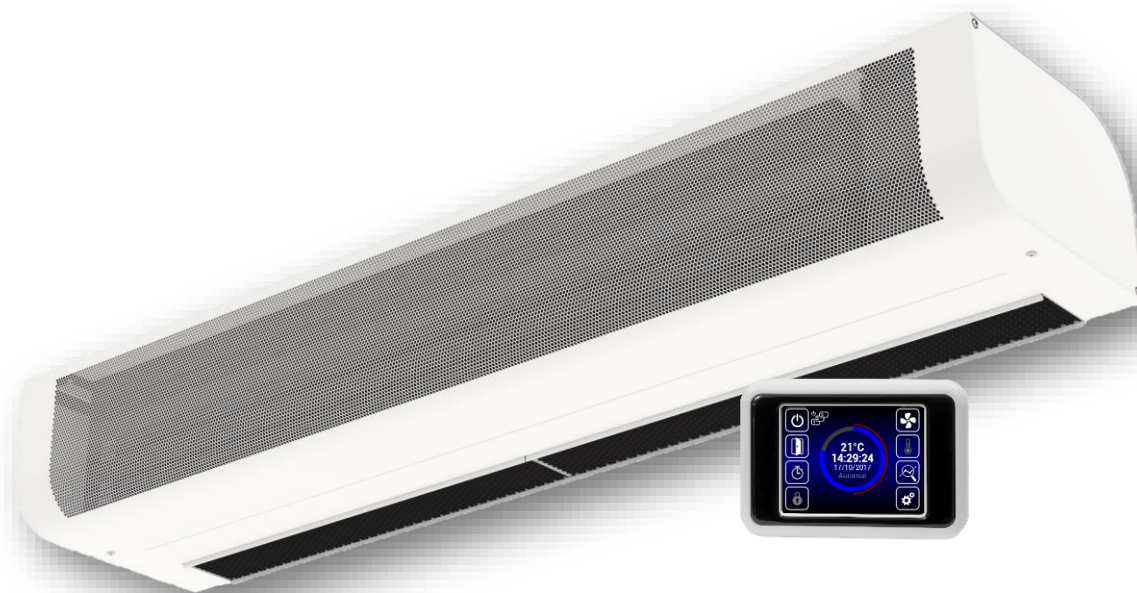
Installation height
up to **3,2m**



RANGE C

Installation height
up to **4,0m**

ESSENSSE NEO LENGTHS



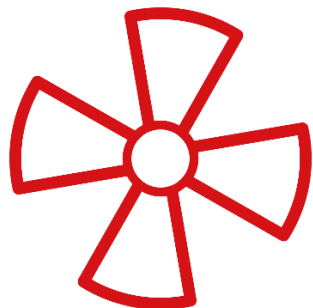
1,0
m

1,5
m

2,0
m

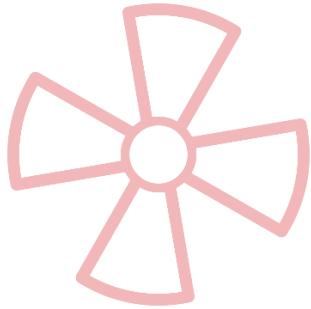
2,5
m

HEATING

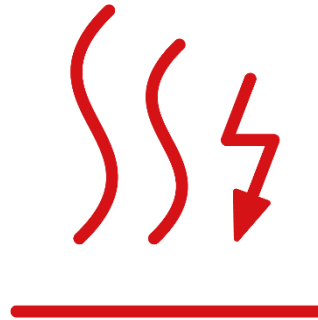


Ambient version
without heating

HEATING



Ambient version
without heating



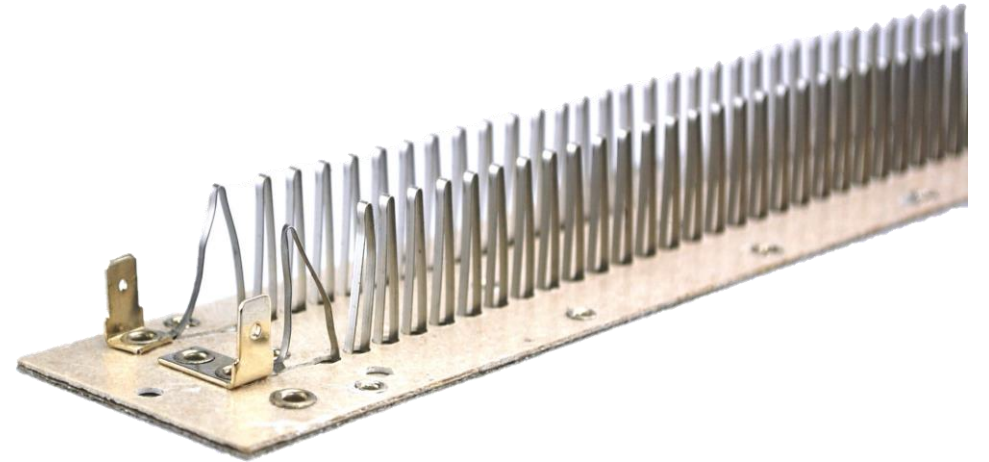
Electric heating
(Different output
lines – E0, E1, E2)



ELECTRIC

Instant heat output
100% output within 40s

Extra safety
Each wire with own thermostat





ELECTRIC

E0 with **5,0kW/m** for **B** range

E1 with **6,5kW/m** for **B, C** range

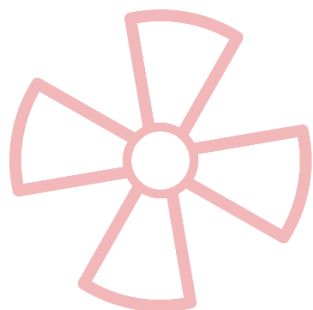
E2 with **9,5kW/m** for **B** range

RANGE B

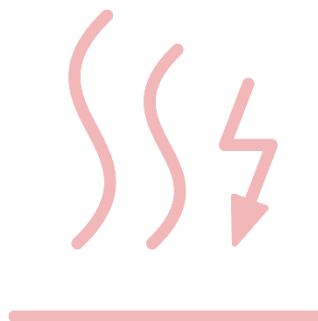


RANGE C



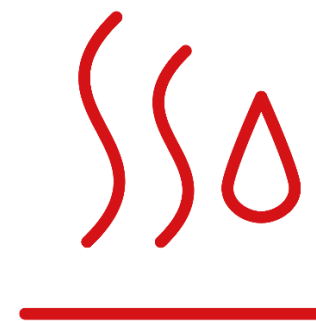


Ambient version
without heating



Electric heating
(Different output
lines – E0, E1, E2)

HEATING



Water heating with
standard capacity



WATER

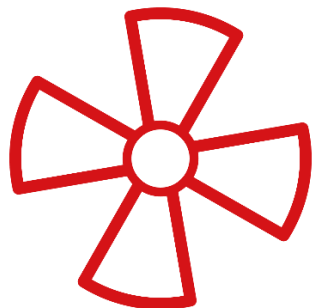
2-row LPHW coil with standard heat output

B range – 14kW/m (80/60°C,18°C)

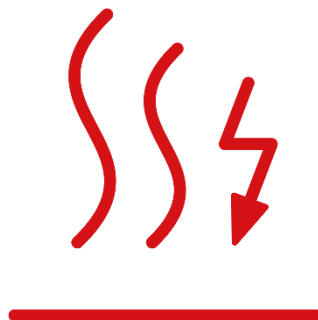
C range – 18kW/m (80/60°C,18°C)



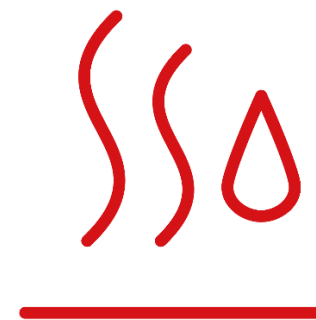
HEATING



Ambient version
without heating



Electric heating
Range B: E0, E1, E2
Range C: E1

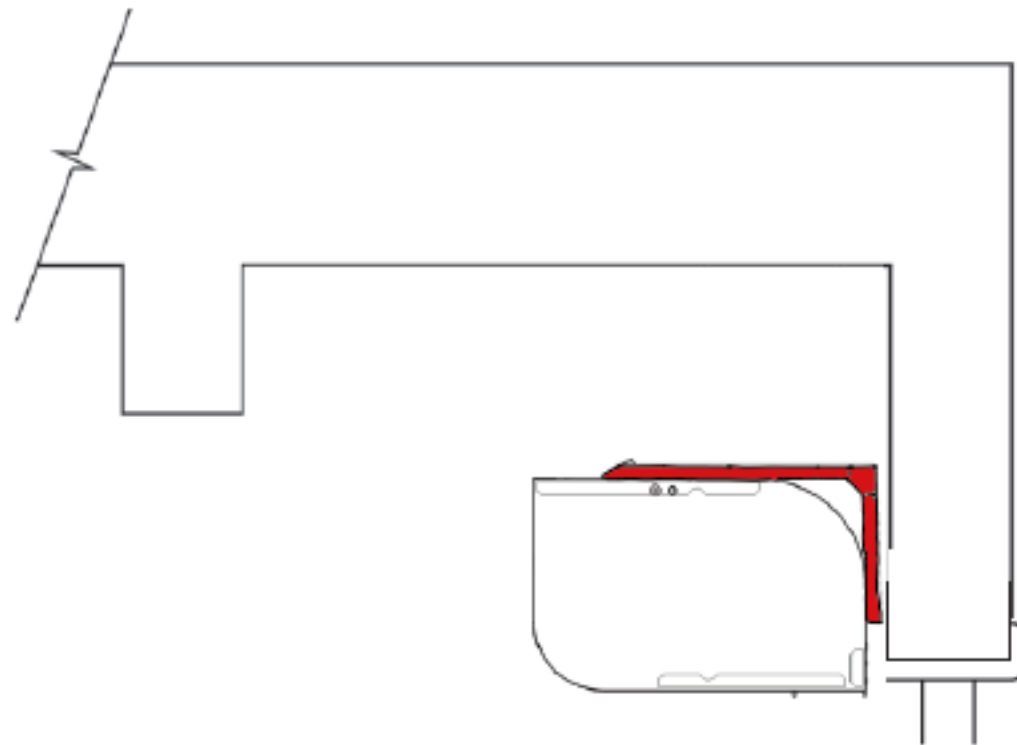


Water heating with
standard capacity

MOUNTING ACCESSORIES

Wall brackets

Integrated **in the delivery**



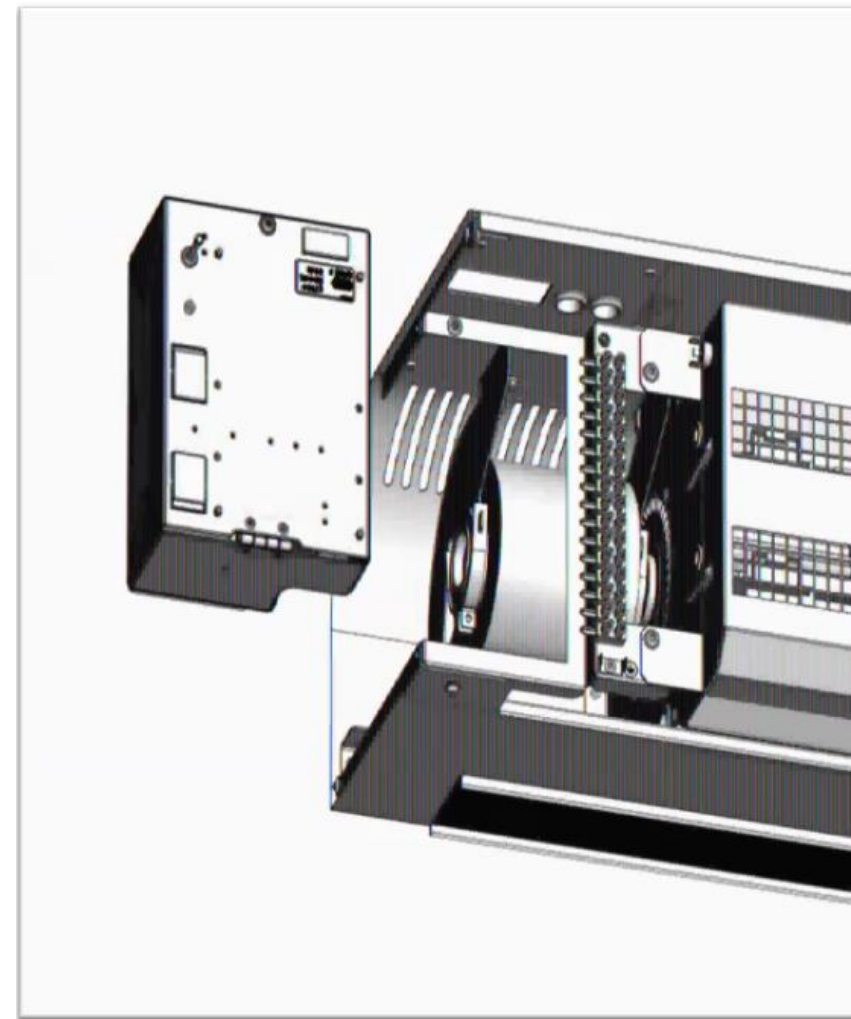
AirGENIO CONTROL

Intuitive – Intelligent - Innovative



AirGENIO MODULAR SYSTEM

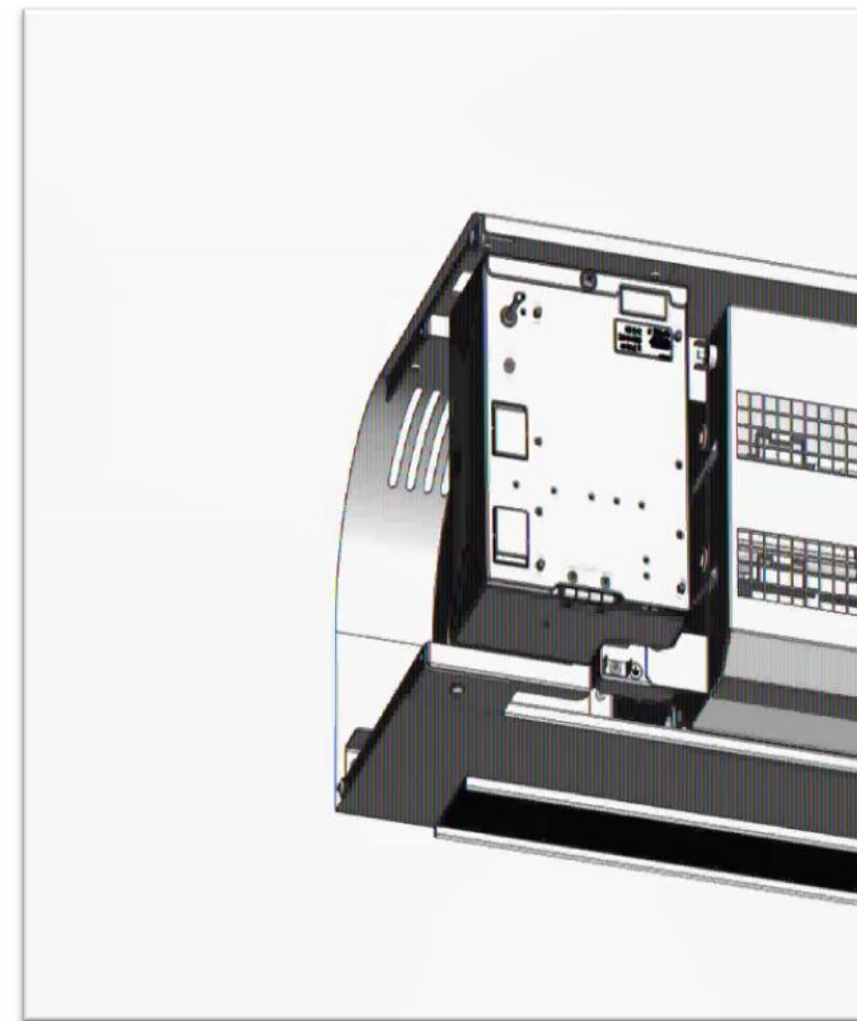
Wide range without the need for
big stock



AirGENIO MODULAR SYSTEM

Wide range without the need for
big stock

Easy to install



AirGENIO OPTIONS



BASIC

AC version – **external**
control module



COMFORT

AC version – **external**
control module



SUPERIOR

AC version – **external**
control module

EC version – **integrated**
control

AirGENIO BASIC

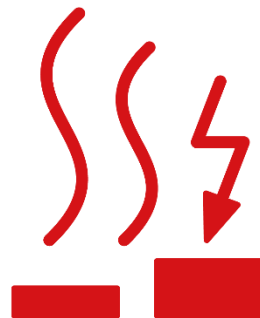
Easy manual control



BASIC



3-steps fan
control

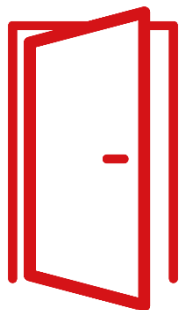


2-steps electric
heating control

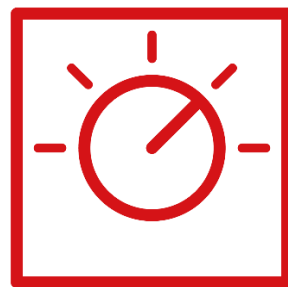


On/Off water
heating control

BASIC



Door switch
connection



Room thermostat
connection



Water valve
connection

AirGENIO COMFORT & SUPERIOR

Intuitive – Intelligent - Innovative



INTUITIVE

Clear icons

Systematic menu

Easy control, setting up and
device service



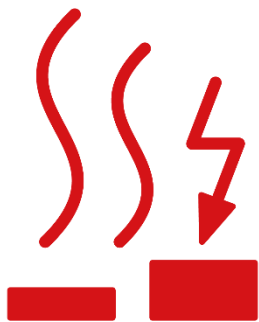
INTELLIGENT

Smart and **complex** algorithms
Integrated temperature **sensors**
Excellent **controllability** and
equipment



COMFORT

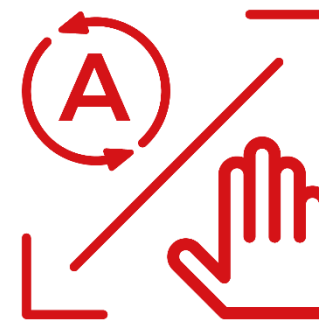
2-step electric
heating (PWM)



ON/OFF water
heating

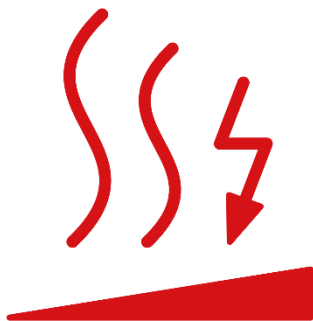


Auto / Manual
control

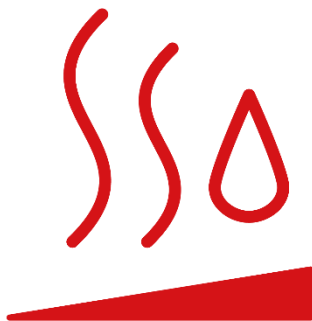


SUPERIOR

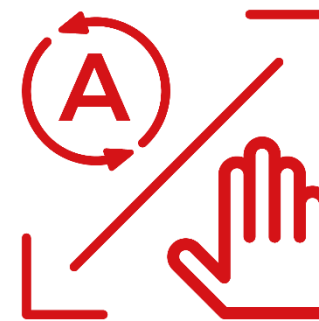
Fluent electric
heating (PWM)



Fluent water
heating



Auto / Manual
control

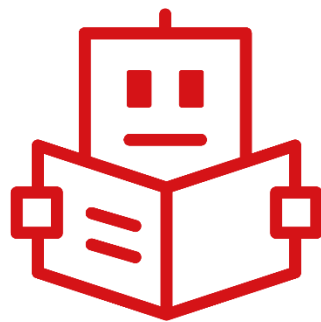


SUPERIOR & COMFORT

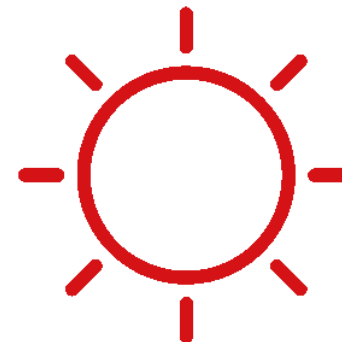
Auto-speed
control



Self-learning
mode



Summer
mode



SUPERIOR & COMFORT

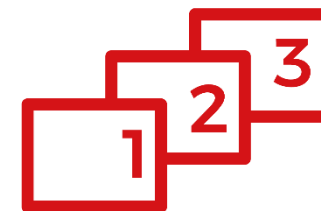
Night
mode



Timer

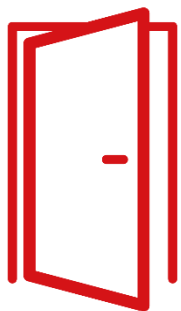


Chaining
(10+1)

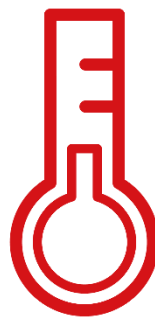


SUPERIOR & COMFORT

Door
contact



Temperature
sensor



Error
contact



ERROR

SUPERIOR & COMFORT

Anti-freeze
protection



Control panel
lock



Second control
panel connection



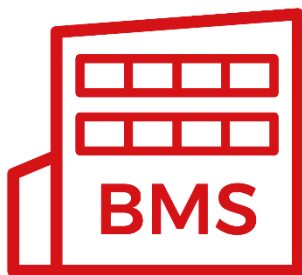
INNOVATIVE

Keep up with the latest trends
Control your device **remotely**



COMFORT

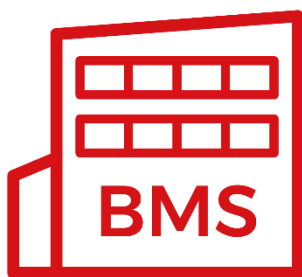
BMS
connection



Network protocols:
ModBUS RTU

SUPERIOR

BMS
connection



Network protocols:
ModBUS RTU, TCP
BACnet

2VV application
remote control



2VV Service
software



AirGENIO OPTIONS



BASIC

AC version – **external**
control module



COMFORT

AC version – **external**
control module



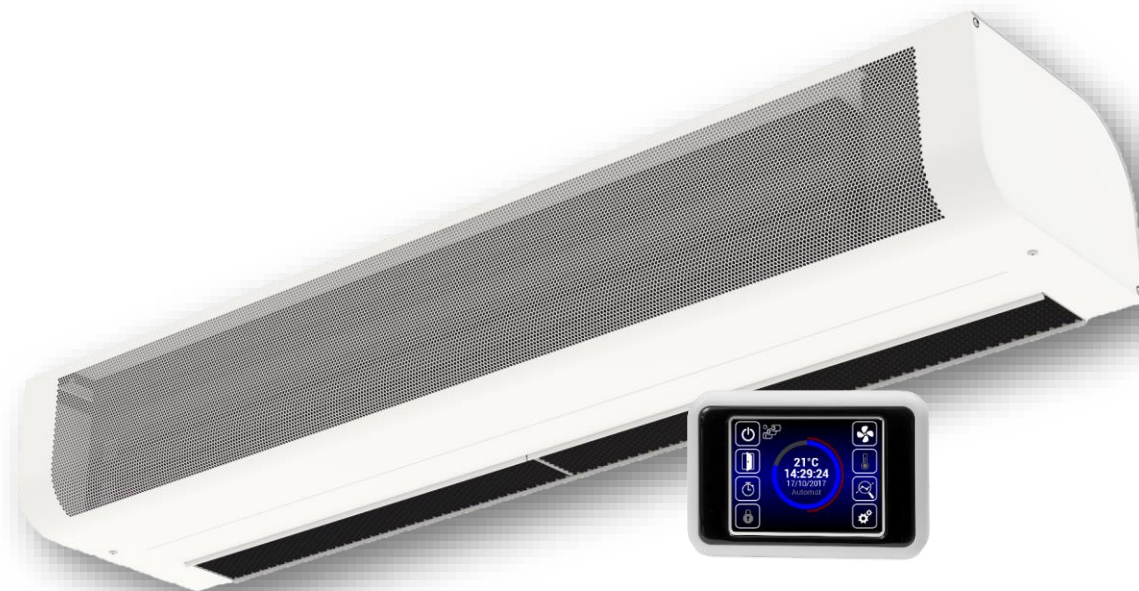
SUPERIOR

AC version – **external**
control module

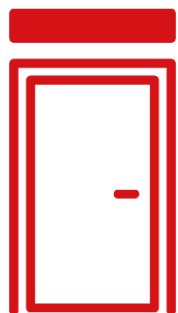
EC version – **integrated**
control

SMART PERFORMER

ESSENSSE NEO Air curtain



ESSENSSE NEO



SMART

Compact air curtain
with smart
technologies



PERFORMER

Choice of different
power ranges



AirGENIO

Exceptional control
system

2VV SUPPORT

Sales and after-sales assistance

TECHNICAL DOCUMENTATION

Technical sheet
Manuals

List of recommended accessories



CHOOSE&GO SELECTION SW

Essential product selection **tool** for project design.

Precise and **reliable data** in one click into PDF.

2VW - Choose&Go

File Calculators

HRU units Ventilation units Air curtains Summary results Unit characteristics Details Controls + accessories Noise characteristics

Air curtain installation method

☐ Horizontal installation ☒ Horizontal installation ceiling

A = 2 m B = 1.1 m C = 0 m

☐ Chained air curtains
Nr. of chained air curtains: 1

Type of heater

☐ Without heater
☒ Water heater
☐ E. heater

Industrial / Commercial
Unspecified

Wind speed in door opening

VCES2C150-V2AC-CR-0A0

VCES2B150-V2AC-CR-0A0
VCES2C150-V2AC-CR-0A0

2VW

VCES2C150-V2AC-CR-0A0

20.09.2020 11:21:08

The ESDENSO NEO is low profile design air curtain for use in retail shops, shopping centres, restaurants, administrative buildings and manufacturing facilities with a recommended installation height up to 4 m. The air curtain should be installed indoors in a dry environment with ambient temperatures ranging from 0 °C up to +40 °C and relative humidity of up to 95 %. It is designed for conveying air free of fine dust, grease, chemical fumes, and other impurities.

Details

Horizontal installation
A = 2 m
B = 1.1 m
C = 0 m

Length 1000 mm
Weight 40 kg
Maximal airflow 3200 m³/h
U 200-40 V-Hz

Water heater
T1 = 65 °C
T2 = 40 °C
Efficiency given in heating water 0 %

Distance from grill

Graph showing distance from grill (m) vs. distance from grill (m). The curve shows a decreasing trend, indicating the required distance from the grill for different installation heights.

2VW

Page 1/5

Copyright 2VW

2VW s.r.o. - Selection sw, Nr. 5.0.3._solver-7.2.1

2VW

VCES2C150-V2AC-CR-0A0

Number of suitable units min / max

VCES2B150-V2AC-CR-0A0
VCES2C150-V2AC-CR-0A0

Documentation

PDF output

Technical data sheet

Dimensional scheme - jpg

Current values

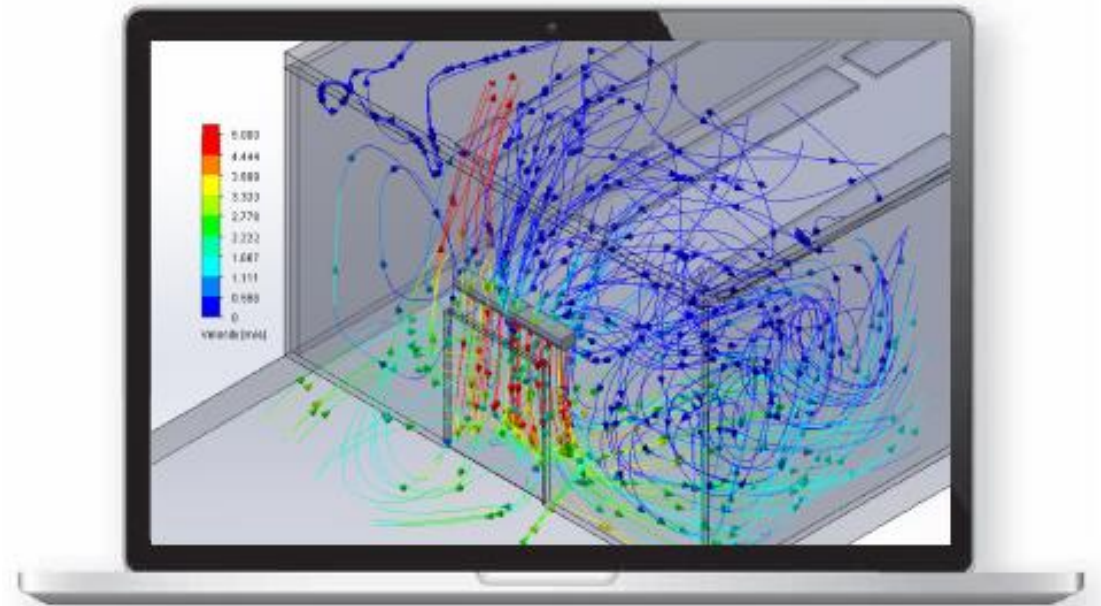
Unit	Value
Maximal airflow	3200 m ³ /h
Inlet air temperature	20 °C
Outlet air temperature	49,5 °C
Inlet medium temperature	90 °C

curtain for use in retail shops, shopping centres, restaurants, offices with a recommended installation height up to 4 m. The air curtain with ambient temperatures ranging from 0 °C up to +40 °C and relative humidity of up to 95 %. It is designed for conveying air free of fine dust, grease, chemical fumes, and other impurities.

CFD SIMULATIONS

Clear out any doubts!

CFD Simulations confirms efficiency and functionality of the proposed solution.

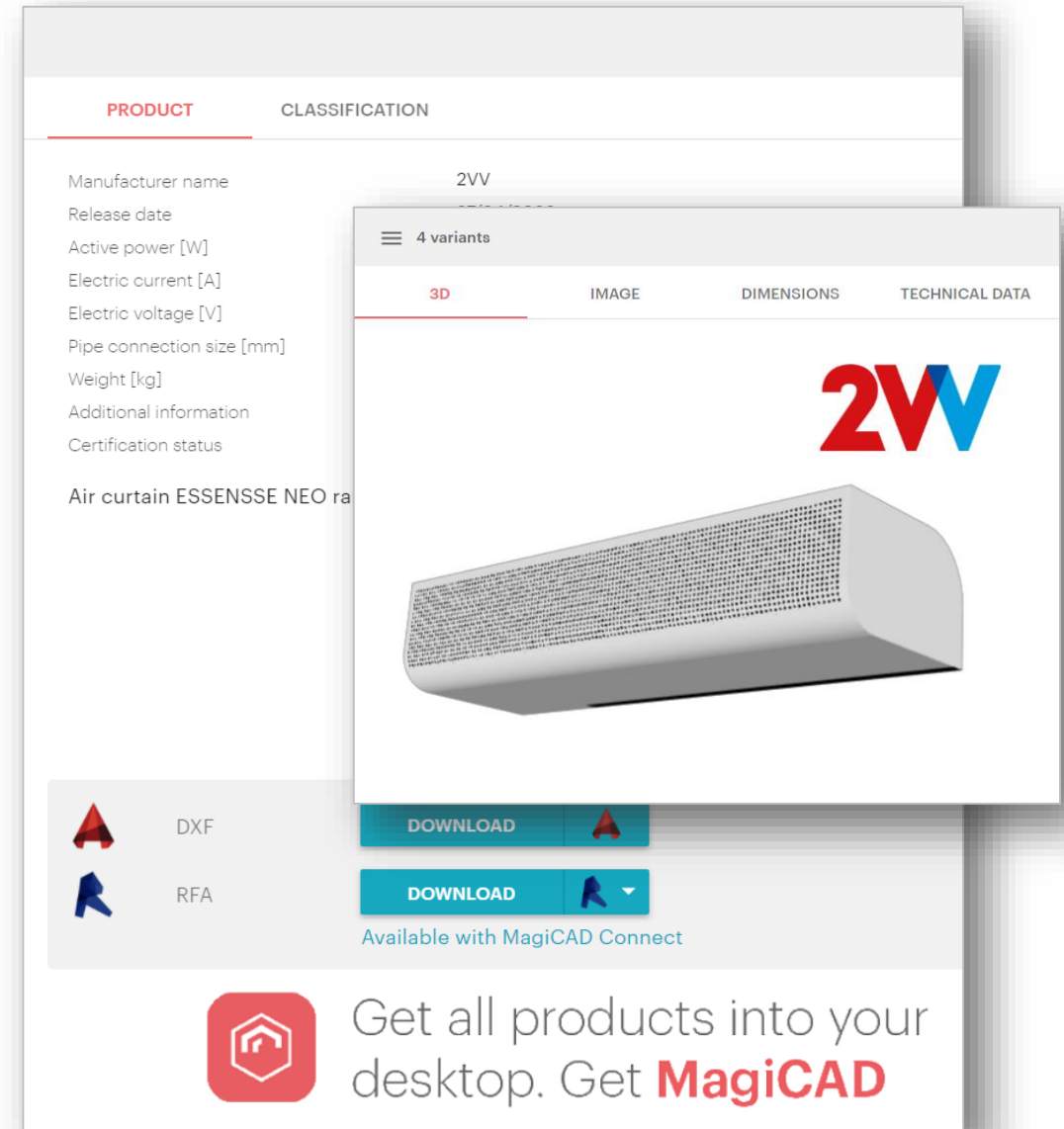


BIM DATABASE



2VV BIM database in **MagiCAD** can be used with AutoCAD or REVIT

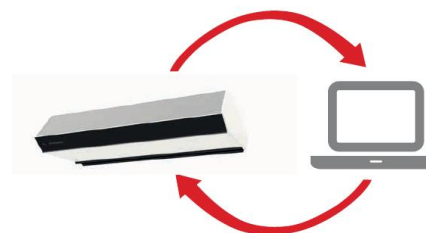
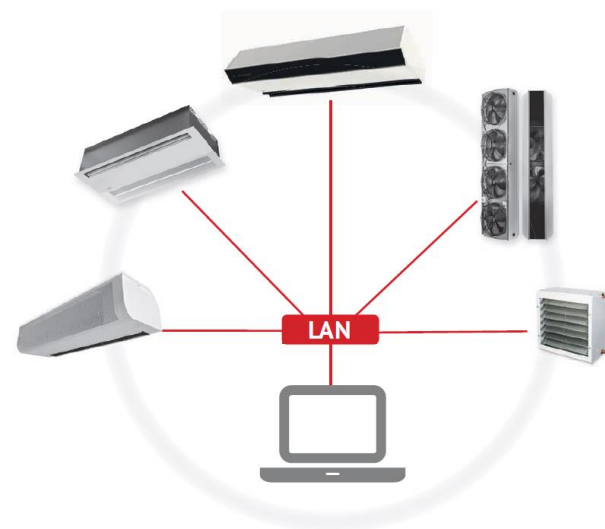
Complete **Air Curtain** and Air Heaters range



2VV SERVICE SOFTWARE

Smart assistant for commissioning
and servicing

Available for all products with
integrated **AirGENIO SUPERIOR**
control



2VV SMART PHONE APPLICATION

Control right at your hands

Operation status, notifications
(error messages, service request...)

For all products with integrated
AirGENIO SUPERIOR control



AFTER-SALES SUPPORT

Technical support **hotline**

support@2vv.cz



Petr NEUMANN



Martin KRÁTKÝ



Lukáš BORŮVKA



Sergiy SHRAMKO

PRODUCT REFERENCES

ESSENSSE NEO Air curtain

UIA KANTINE

NORWAY



PARTNER
IN VENTILATION
2VV.CZ



CAFE PARDUBICE

CZECH REPUBLIC



PHARMACY H.KRALOVE

CZECH REPUBLIC

MARTA KUNZMANNOVÁ

Product Specialist

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