



**WING**

AIR CURTAIN  
2023



[www.vtsgroup.com](http://www.vtsgroup.com)



# WING

## YOUR INVISIBLE BARRIER

WING is the next generation air curtain created from a passion for a light and modern design representing characteristics of gliders.



### Unique shape

A minimal casing with a streamlined form of a wing that seems to float in the air. The diamond style side panels hide the excellent components in an innovative curtain body to set new standards for air curtains. WING combines the unique design and excellent efficiency to redefine the air curtain image.



### Quality and design

High quality materials, unique shape and rigid construction are the basic assumptions of the designers of the curtain. Simple cleaning of the curtain, double protective coating and efficient and durable EC motor ensure trouble-free operation of the device.

### Energy efficiency

- » highly efficient EC motor
- » maximum unit efficiency even at reduced speed
- » smooth speed regulation
- » optimal fan shape and EC motor let save up to 40% of energy



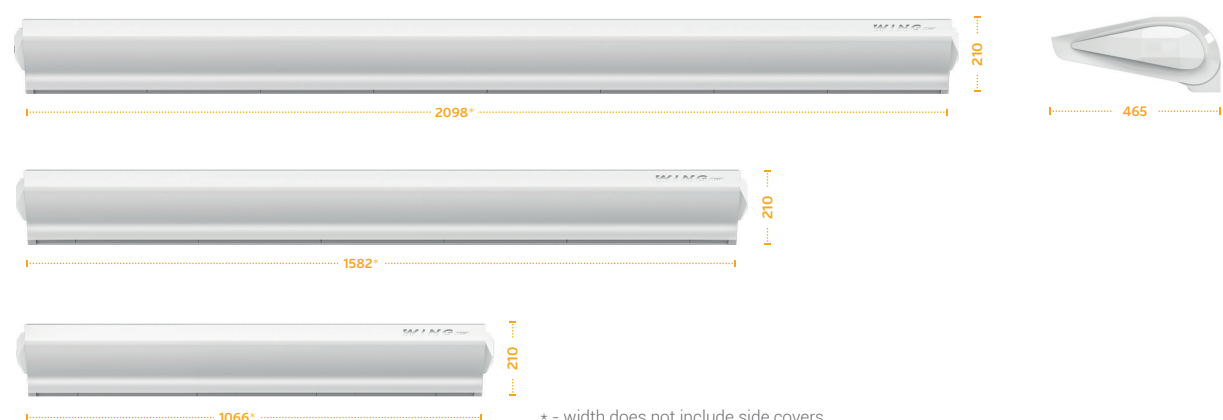
WING C

MAX. AIR RANGE:

4 m

EXHAUST FLOW RATE:

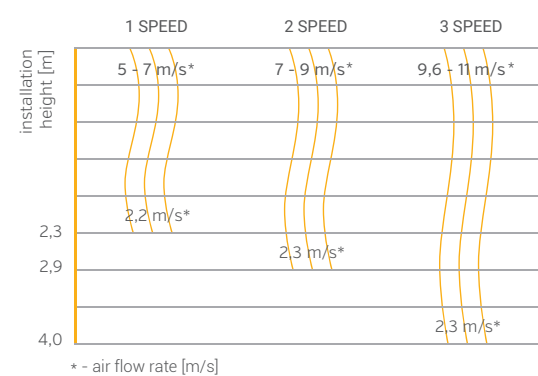
1950-4600 m<sup>3</sup>/h



## STREAM RANGE

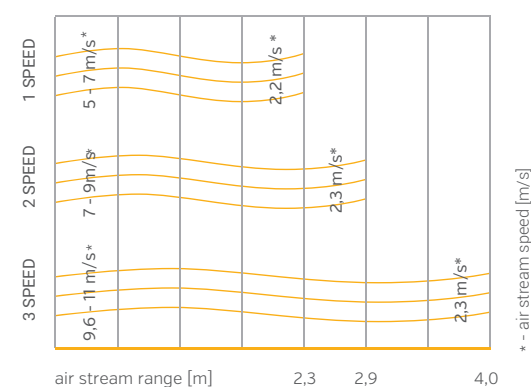
### Vertical air stream range

(maximum installation height)



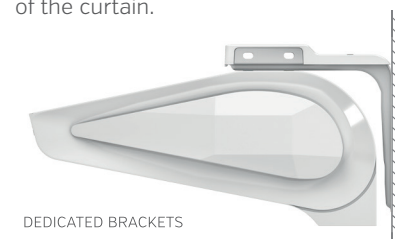
### Horizontal air stream range

(for vertical installation)

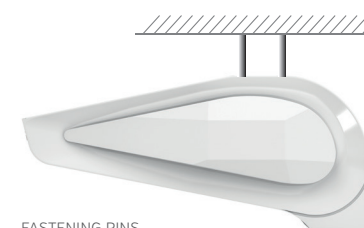


## Instalation

Dedicated brackets and fixing points enable immediate installation of the curtain.



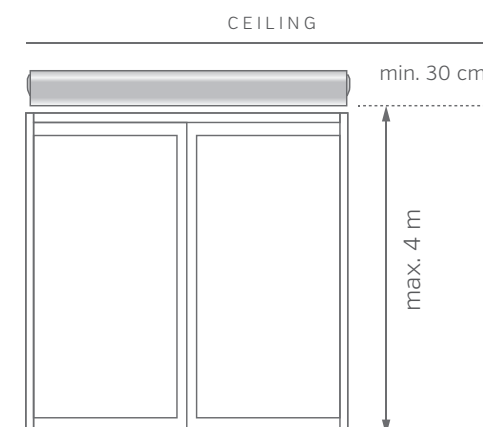
DEDICATED BRACKETS



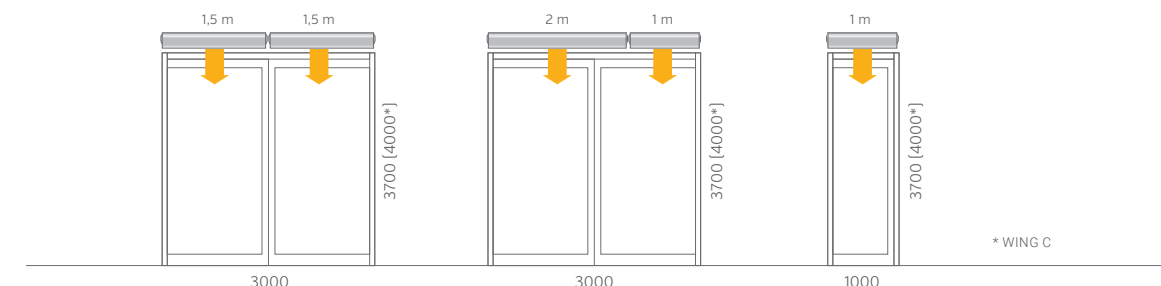
FASTENING PINS

The maximum mounting height is 4m.

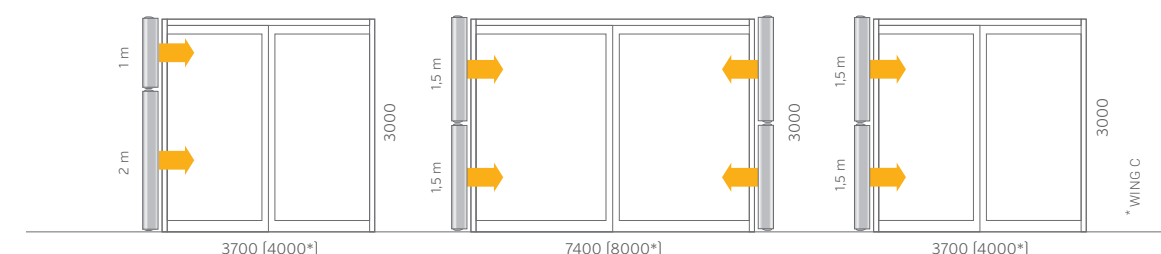
The minimum distance between the air outlet of the curtain and the ceiling is only 30 cm.



### HORIZONTAL INSTALLATION



### VERTICAL INSTALLATION



## Control



Sterownik HMI WING EC

VTS article No.	1-4-2801-0155
Motor support	EC
Power supply voltage	~230V/1ph /50Hz
Permissible load	1A for 230VAC 0,02A for 0-10V
Setting range	5...40 °C
Protection rating	IP 20



Controller WING EC WIFI

VTS article No.	1-4-2801-0156
Motor support	EC
Power supply voltage	~230V/1ph /50Hz
Permissible load	1A for 230VAC 0,02A for 0-10V
Setting range	5...40 °C
Protection rating	IP 20



Wall controller WING/VOLCANO

VTS article No.	1-4-0101-0438
Motor support	AC
Power supply voltage	6(3) V/ph/Hz
Permissible load	1A for 230VAC 0,02A for 0-10V
Setting range	10...30 °C
Protection rating	IP 30



Potentiometer EC (0-10 V)

VTS article No.	1-4-0101-0453
Power supply voltage	~230V/1ph /50Hz
Permissible load	0,02 A for 0-10V
Work mode	Manual
Protection rating	IP 30

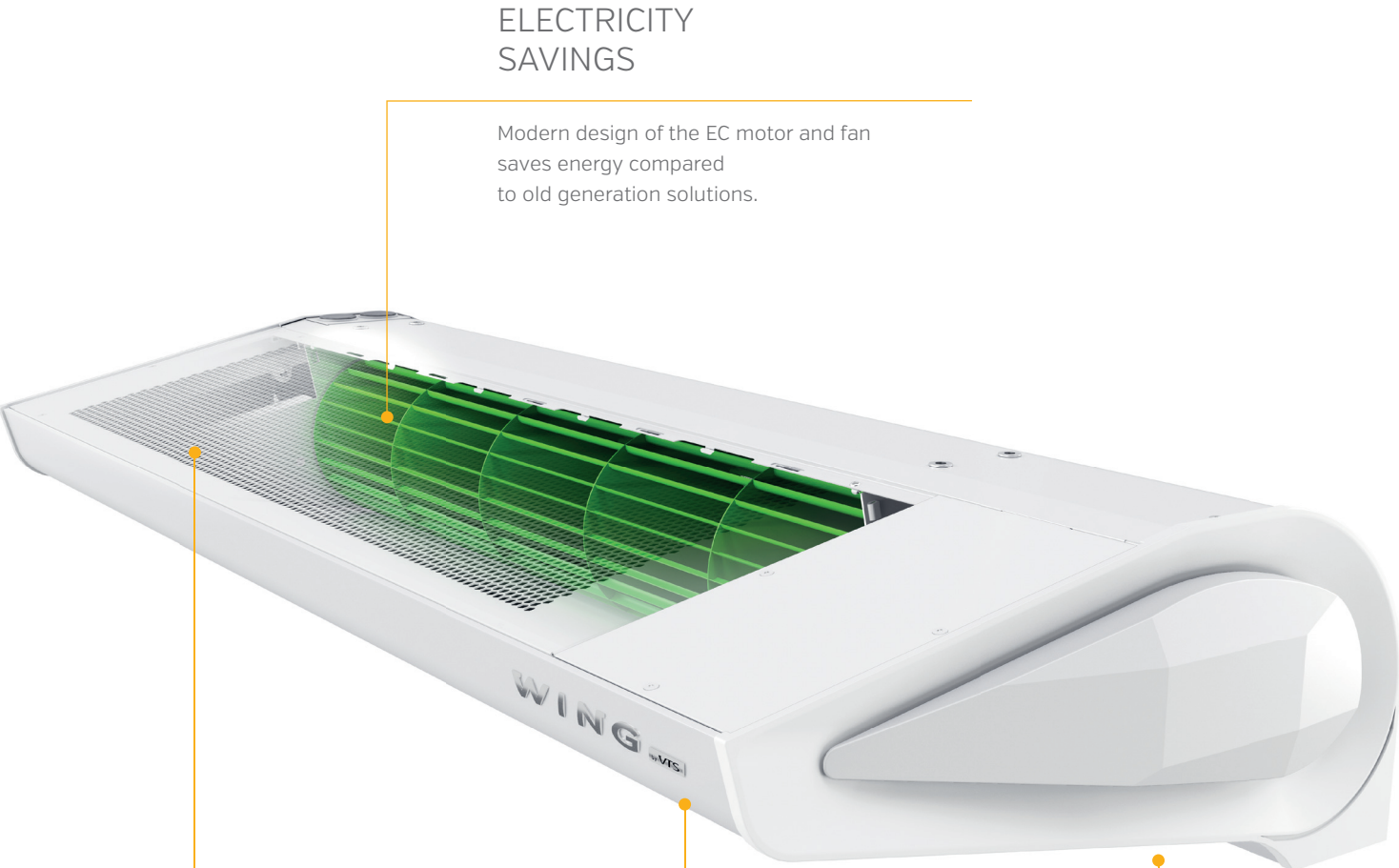


Door sensor (reed switch)

VTS article No.	1-4-0101-0454
Contact configuration	NO
Switching current	500 mA
Switching voltage	max 200 V
Connection	screw

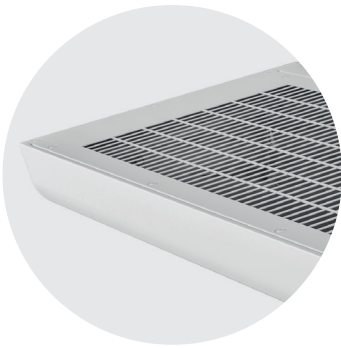
\* cooperation with controller WING EC

ALL EC AIR CURTAINS ARE CHARACTERIZED BY EASE AND SIMPLICITY OF CONNECTION



**ELECTRICITY SAVINGS**

Modern design of the EC motor and fan saves energy compared to old generation solutions.



**SIMPLE CLEANING**

Thanks to the optimized construction of the covers, cleaning the curtain is comfortable and does not require the disassembly of any part, always ensuring hygienic operation.



**GALVANIZED STEEL CASING**

Double coating (galvanization + powder paint) provides long-term protection against corrosion and consistent aesthetic qualities. Casing colour RAL 9016.



**SMART DOOR PROTECTION**

Air curtain with advanced WING EC CONTROLLER may perform according to the door opening sensor. Smart Door protection gives you not only permanent temperature comfort but also secure inside environment from dust, pollution, insects and unpleasant scents.

**Technical parameters**

PARAMETERS		AMBIENT AIR CURTAIN											
		WING C100				WING C150				WING C200			
		AC		EC		AC		EC		AC		EC	
Colour ○ WHITE (RAL 9016) ● DARK (RAL 7016)		○	●	○	●	○	●	○	●	○	●	○	●
VTS article No.		1-4-2801-0256	1-4-2801-0305	1-4-2801-0265	1-4-2801-0314	1-4-2801-0257	1-4-2801-0306	1-4-2801-0266	1-4-2801-0315	1-4-2801-0258	1-4-2801-0307	1-4-2801-0267	1-4-2801-0316
maximum door width (1 device)	m	1				1,5				2			
maximum door height (vertical stream range)*	m	4											
maximum exhaust flow rate	m³/h	1950				3200				4600			
supply voltage	V/ph/Hz	~230/1/50											
motor pwower	kW	0,235		0,2		0,375		0,3		0,58		0,45	
rated current	A	1,2		1,1		1,7		1,3		2,6		1,9	
weight (without water)	kg	17,9		15,3		23,8		20,4		29,3		25,1	
rated current	IP	20											
max. velocity*	m/s	11											
protection rating	RAL	9016 or 7016											

Fan speed	WING C100			WING C150			WING C200		
	I	II	III	I	II	III	I	II	III
Qp [m³/h]	1050	1500	1950	1500	2250	3200	2340	3400	4600
db (A) **	53	59	62	54	62	63	57	61	63

\* air stream range depends on curtain operation speed  
 \*\* measurement conditions: semi-open space, horizontal installation on the wall, measurement performed 5m away from the device

**Wing key realisations**



> Al Murad Mall



> The Andaz Capital Gate Hotel Abu Dhabi by Hyatt

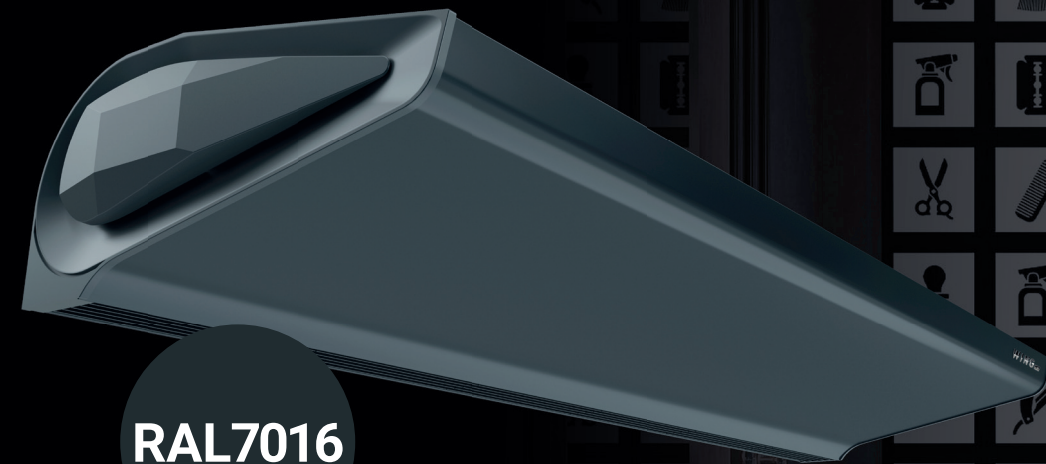


> DEWA (Dubai Electricity & Water Authority) Office Building, Al Ruwaihah, Dubai



# WING

YOUR INVISIBLE BARRIER



**RAL7016**

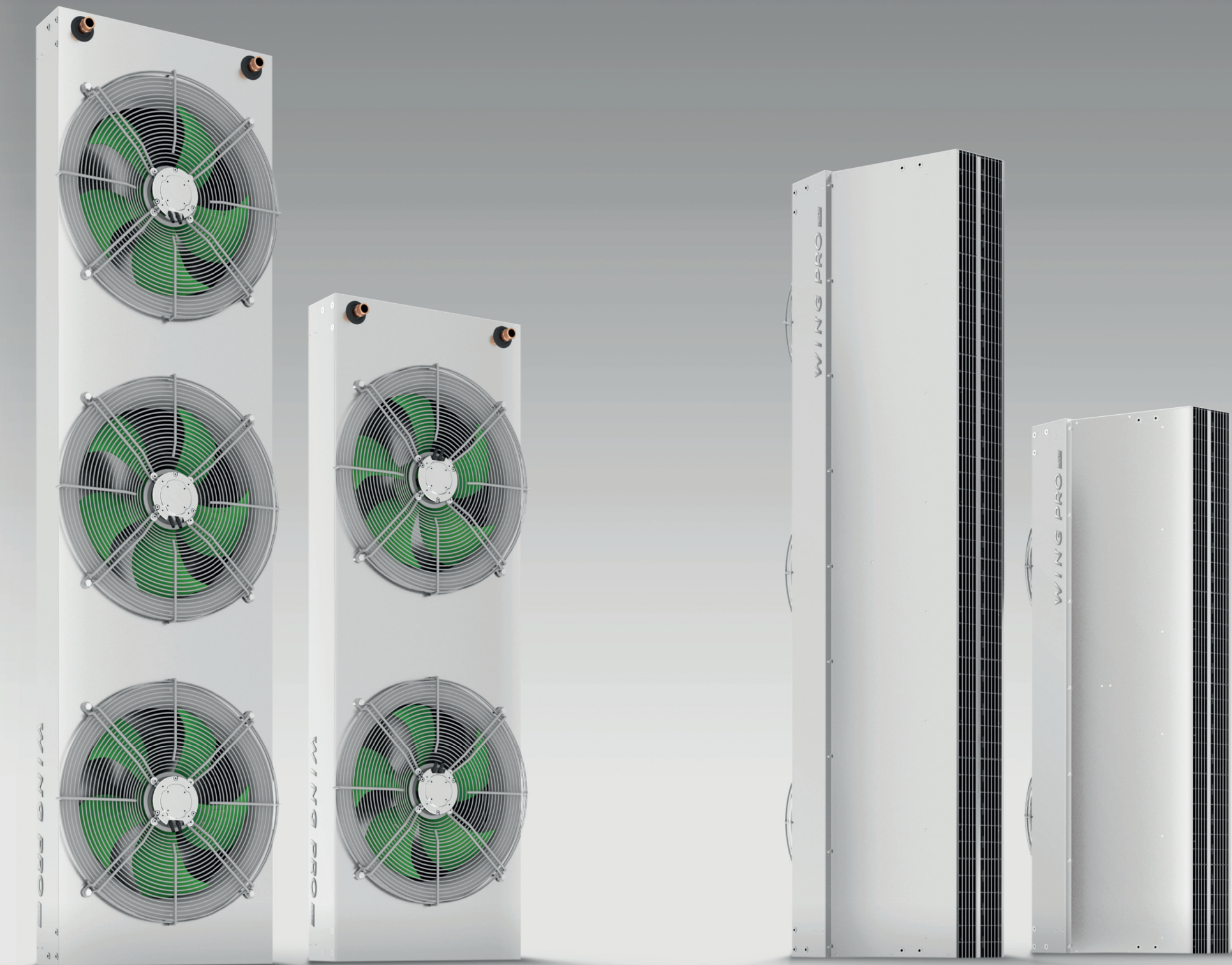
## NO MORE COMPROMISES

The color RAL7016 is currently the most commonly used color in the residential construction industry. Color will no longer stand in the way of the designer's vision. WING DARK RAL7016 will effectively complement roof, doors, windows and gates.



# WING PRO

AIR CURTAINS  
FOR PROFESSIONALS



## Energy saving

**EC motor** use even 40% less electrical energy and allow for **BMS direct connection**.



## Power

The wide air stream, range up to **8 meters**.



## Installation

Vertical or horizontal mounting possibility plus easy unit connection.



## Price

Intelligent design with never-before-seen performance available at a **competitive price**.





## Product range

### WING PRO C

#### WITHOUT HEATING (AMBIENT)

EXHAUST FLOW RATE:  
8 500 - 12 800 m<sup>3</sup>/h  
MAXIMUM AIR STREAM RANGE:  
8 m

WING PRO 200



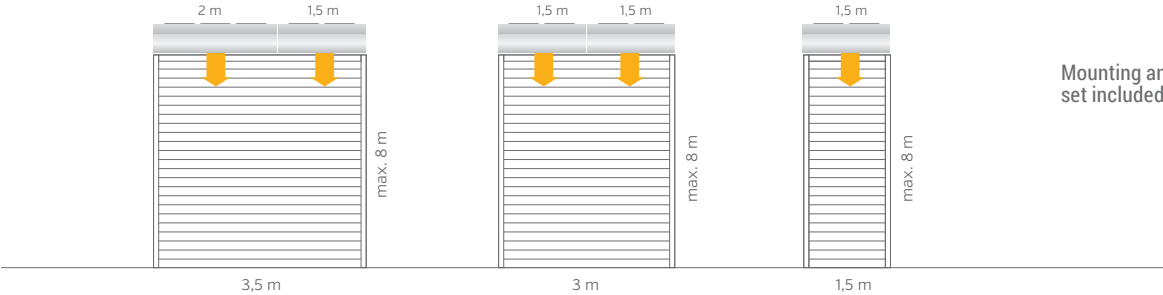
WING PRO 150



EC

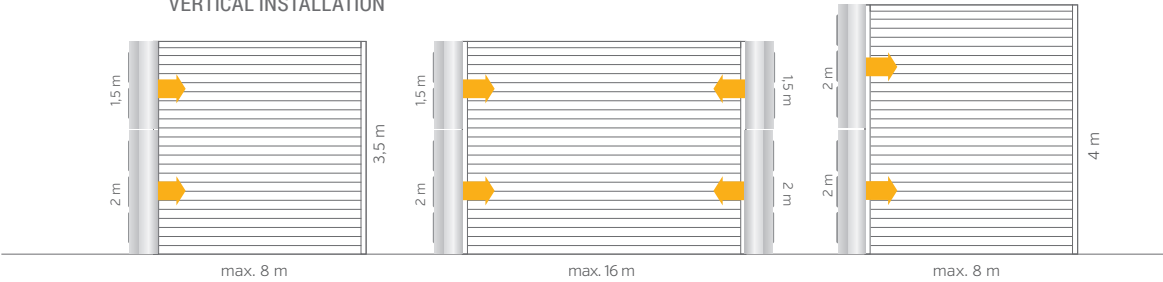


#### HORIZONTAL INSTALLATION

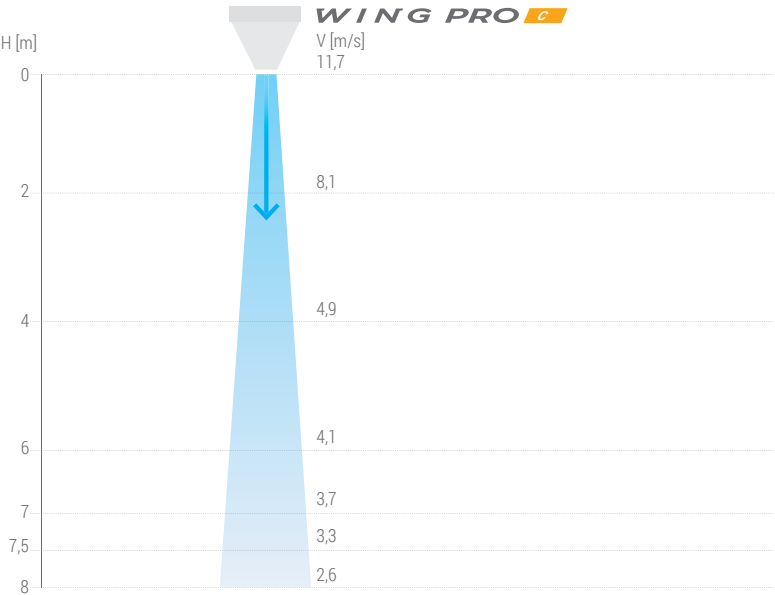


Mounting and connection set included.

#### VERTICAL INSTALLATION



## Stream range





Technical parameters

PARAMETERS		WITHOUT HEATING (AMBIENT)	
		C150	C200
		EC	EC
VTS article No.		1-4-2801-0347	1-4-2801-0353
Max. height of door	m	1,5	2
Max. air stream range	m	8	
Max. flow rate	m³/h	8 500	12 800
Supply voltage	V/ph/Hz	~230/1/50	
EC motor power	kW	2 x 0,25	3 x 0,25
Rated current (EC motor)	A	2 x 1,3	3 x 1,3
Weight AC/EC (without water)	kg	43,4	58,3
IP protection rating	IP	54	

Accessories



HMI WING EC controller

VTS article No.	1-4-2801-0155
Motor support	EC
Power supply voltage	~230V/1ph/50Hz
Permissible load	1A for 230VAC 0,02A for 0-10V
Setting range	5...40 °C
Protection rating	IP 20



Controller WING EC WIFI

VTS article No.	1-4-2801-0156
Motor support	EC
Power supply voltage	~230V/1ph/50Hz
Permissible load	1A for 230VAC 0,02A for 0-10V
Setting range	5...40 °C
Protection rating	IP 20



Door sensor (reed switch)

VTS article No.	1-4-0101-0454
Contact configuration	NO
Switching current	500 mA
Switching voltage	max 200 V
Connection	screw

HMI WiFi Wing controller

- » modern and compact design
- » high contrast and clear screen
- » advanced calendar for each day of the week
- » door sensor cooperation
- » wireless communication with a smartphone
- » preset 3-levels speed control
- » build-in thermostat
- » 3-levels of heating power
- » up to 8 air curtains connected with the one controller



DOOR OPTIMUM function

Door Optimum function allows the WING to maintain full protection of the door opening and at the same time optimize costs associated with its operation. It keeps the air curtain operating at minimum speed and continues to protect the door, from the outside air, once the door begins opening it also increases the speed of air by +1 or +2 levels, depending on user's preferences.

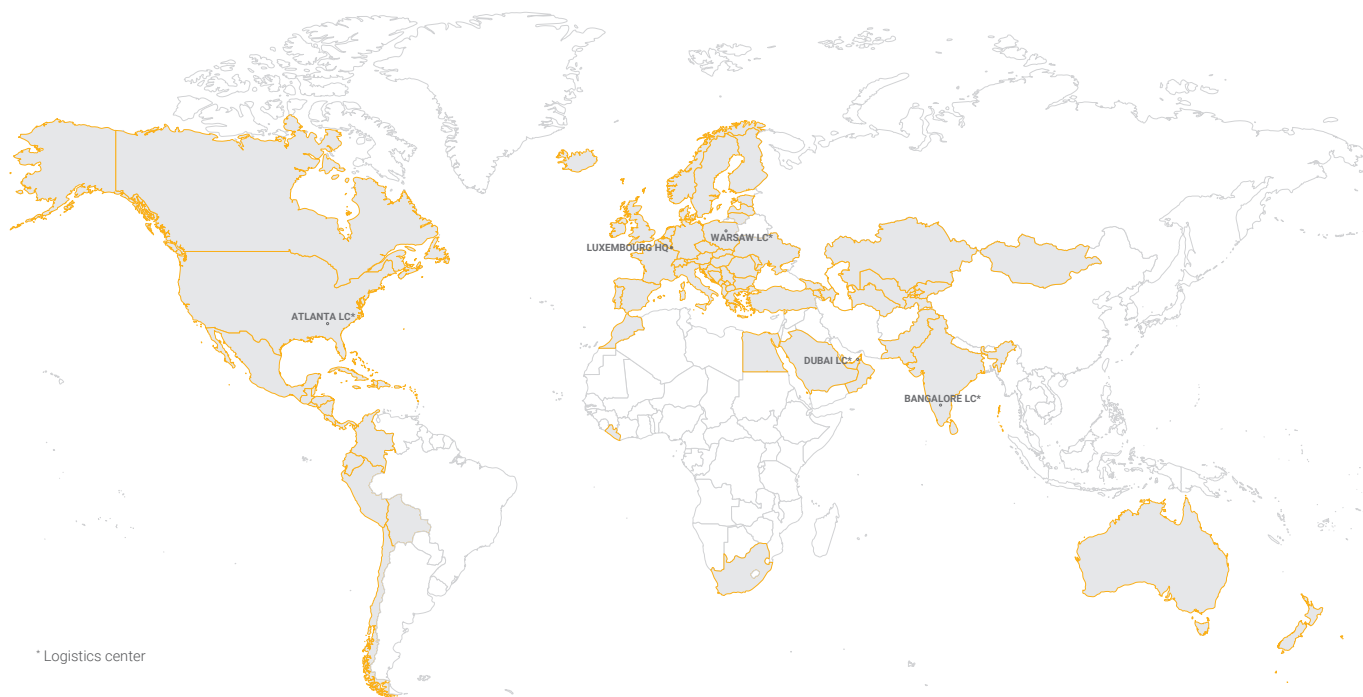


Noise level

Fan speed	Noise level	WING PRO C	
		1,5m	2m
I	dB(A)*	47	48
II		57	58
III		65	66

\* speed measurement conditions: semi-open space, horizontal installation on the wall, measurement performed 5 m away from the device





**\$** COMPETITIVE  
PRICE

**CROWN** HIGH  
QUALITY

OVER  
**1 000 000**  
UNITS  
SOLD

EH CAD SELECTION TOOL



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