

WING

AIR CURTAIN



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



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.

Product range

WING **W**

WATER HEAT EXCHANGER

HEATING POWER RANGE:
4 – 47 kW

EXHAUST FLOW RAT:
1850-4400 m³/h

MAXIMUM AIR COVERAGE:
3,7 m

WING 100/150/200



WING **E**

ELECTRIC HEATER

HEATING POWER RANGE:
2 – 15 kW

EXHAUST FLOW RAT:
1850-4500 m³/h

MAXIMUM AIR COVERAGE:
3,7 m



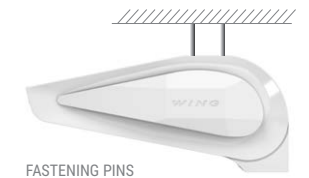
DEDICATED BRACKETS

WING **C**

WITHOUT HEAT EXCHANGER [AMBIENT]

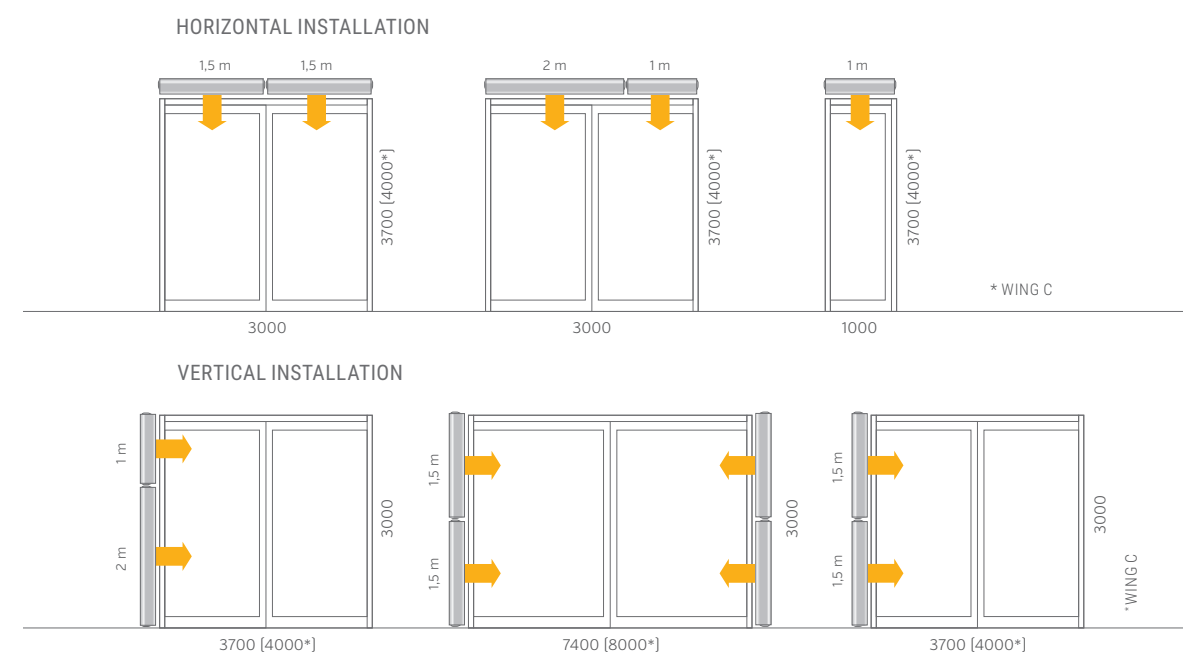
EXHAUST FLOW RATE:
4 m

EXHAUST FLOW RAT:
1950-4600 m³/h



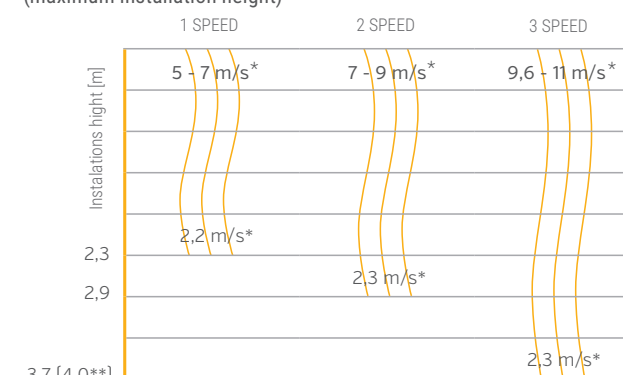
FASTENING PINS

* width does not include side covers



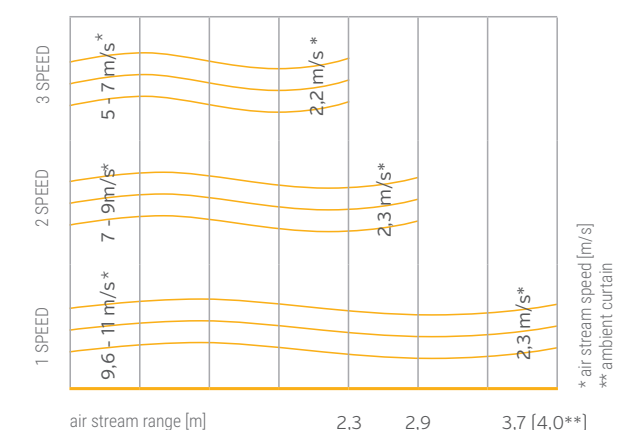
Stream range

Vertical air stream range (maximum installation height)



* air stream speed [m/s]
** ambient curtain

Horizontal air stream range (for vertical installation)



* air stream speed [m/s]
** ambient curtain

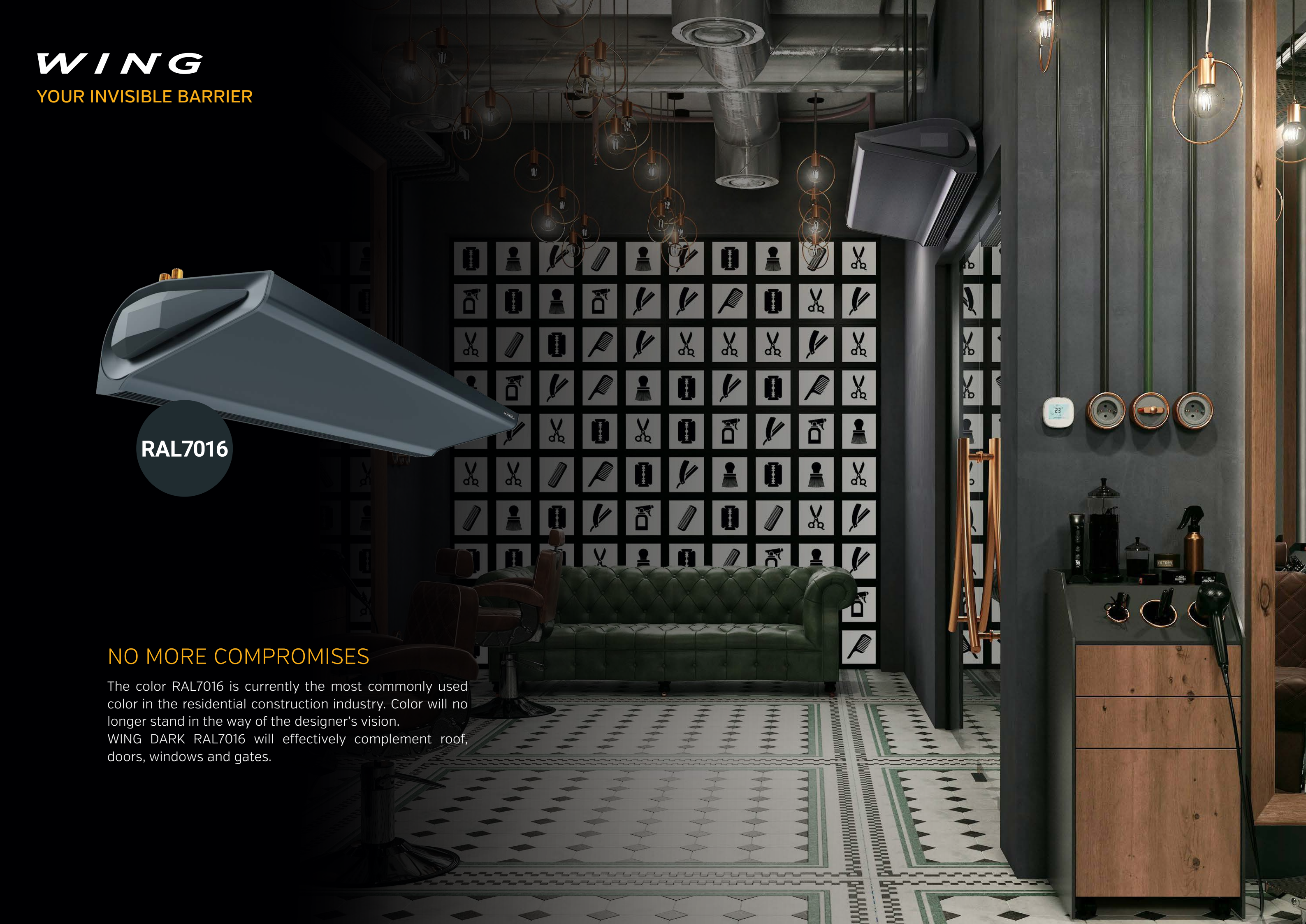
WING

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.



Technical parameters

PARAMETERS		WATER AIR CURTAIN						ELECTRIC AIR CURTAIN						AMBIENT AIR CURTAIN					
		W100		W150		W200		E100		E150		E200		C100		C150		C200	
		AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC
Colour ○ WHITE (RAL 9016) ● DARK (RAL 7016)		○	●	○	●	○	●	○	●	○	●	○	●	○	●	○	●	○	●
VTS article No.		1-4-2801-0250	1-4-2801-0299	1-4-2801-0259	1-4-2801-0308	1-4-2801-0251	1-4-2801-0300	1-4-2801-0260	1-4-2801-0309	1-4-2801-0252	1-4-2801-0301	1-4-2801-0261	1-4-2801-0310	1-4-2801-0253	1-4-2801-0302	1-4-2801-0262	1-4-2801-0311	1-4-2801-0254	1-4-2801-0303
		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		1		1,5		2		1		1,5		2	
maximum door height (vertical stream range)*	m			3,7						3,7				4					
maximum exhaustflow rate	m³/h	1850		3100		4400		1850		3150		4500		1950		3200		4600	
heating power range**	kW	4-17		10-32		17-47		2 lub 4/6		8/12		10/15				-			
maximum temperature of heating agent	°C			95						-						-			
maximum operating pressure	MPa			1,6						-						-			
water volume	dm³	1,6		2,6		3,6				-						-			
number of heat exchanger rows	pcs.			2						-						-			
supply voltage	V/ph/Hz			~ 230/1/50				~230/1/50 for 2kW ~400/3/50 for 4/6kW		~400/3/50				~230/1/50					
electric heating coil power	kW			-				2 and 4		4 and 8		5 and 10				-			
electric heating coil current draw	A			-				6/max.9		11,5/max.17,3		14,5/max.21,4				-			
motor power	kW	0,235	0,2	0,375	0,3	0,58	0,47	0,235	0,2	0,375	0,3	0,58	0,47	0,235	0,2	0,375	0,3	0,58	0,47
rated current	A	1,2	1,1	1,7	1,3	2,6	1,9	1,2	1,1	1,7	1,3	2,6	1,9	1,2	1,1	1,7	1,3	2,6	1,9
weight (without water)	kg	20,8	21,2	27,8	24,5	34,6	30,4	20	17,3	26,8	23,4	33,3	29,1	17,9	15,3	23,8	20,4	29,3	25,1
protection rating	IP							20											

Accessories



HMI WING EC controller



Controller WING EC WIFI



Wall controller WING/VOLCANO



Door sensor (reed switch)



Door sensor adapter WING AC



Valve with actuator



Flex. connection hoses (set)

VTS article No.	1-4-2801-0155	VTS article No.	1-4-2801-0156	VTS article No.	1-4-0101-0438	VTS article No.	1-4-0101-0454	VTS article No.	1-4-0101-0578	VTS article No.	1-2-1204-2019	VTS article No.	1-2-2702-0076
Motor support	EC	Motor support	EC	Motor support	AC	Contact configuration	NO	Power supply	~230V/1ph /50Hz	Power supply voltage	~230V/1ph /50Hz	Lenght	0,6-0,9 m
Power supply voltage	~230V/1ph /50Hz	Power supply voltage	~230V/1ph /50Hz	Power supply voltage	6(3) V/ph/Hz	Switching current	500 mA	Rated input power	1W	Opening	3/3 min	Connecction type	GW 3/4"
Permissible load	1A for 230VAC 0,02A for 0-10V	Permissible load	1A for 230VAC 0,02A for 0-10V	Permissible load	1A for 230VAC 0,02A for 0-10V	Switching voltage	max 200 V	Protection rating	IP 55	Kvs	4,5	Max. fluid pressure	1,6 MPa
Setting range	5..40 °C	Setting range	5..40 °C	Setting range	10...30 °C	Connection	screw	Dedicated to curtains with AC motor. Adapter gives possibility to use Door sensor (1-4-0101-0454) with Wall controller (1-4-0101-0438).		Protection rating	IP 54	Min. working temperature for water	5 °C
Protection rating	IP 20	Protection rating	IP 20	Protection rating	IP 30							Min. working temperature for glycol	-20 °C
												Max. working temperature	130 °C
												Set includes	hose (2 pcs) gasket (4 pcs)



Smart entrance protection

INSIDE

OUTSIDE

- ← CHILLED AIR
- ← CLEAN AIR

- WARM AIR
- DUST
- INSECTS
- POLLUTION
- UNPLEASANT SCENTS

Noise level

Fan speed		WING W100-200			WING E100-200			WING C100-200		
		1m	1,5m	2m	1m	1,5m	2m	1m	1,5m	2m
I	dB(A)**	52	53	56	49	51	55	53	54	57
II		55	58	61	51	56	59	59	62	61
III		57	59	62	58	58	60	62	63	63

* air stream range depends on curtain operation speed
** available heating power in the control option configuration: Wing E100 2 or 4/6kW, for Wing E150 8/12kW, for Wing E200 10/15kW
*** speed measurement conditions: semi-open space, horizontal installation on the wall, measurement performed 5 m away from the device

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**, capacity up to 88 kW.



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 **WR2**

DOUBLE ROW COIL

HEATING POWER RANGE:
17 - 88 kW
EXHAUST FLOW RATE:
7 300 - 10 700 m³/h
MAXIMUM AIR STREAM RANGE:
7 m

WING PRO 200



2072 mm

WING PRO **WR1**

SINGLE ROW COIL

HEATING POWER RANGE:
9 - 48 kW
EXHAUST FLOW RATE:
7 900 - 11 900 m³/h
MAXIMUM AIR STREAM RANGE:
7,5 m

WING PRO 150



1556 mm

WING PRO **C**

WITHOUT HEATING (AMBIENT)

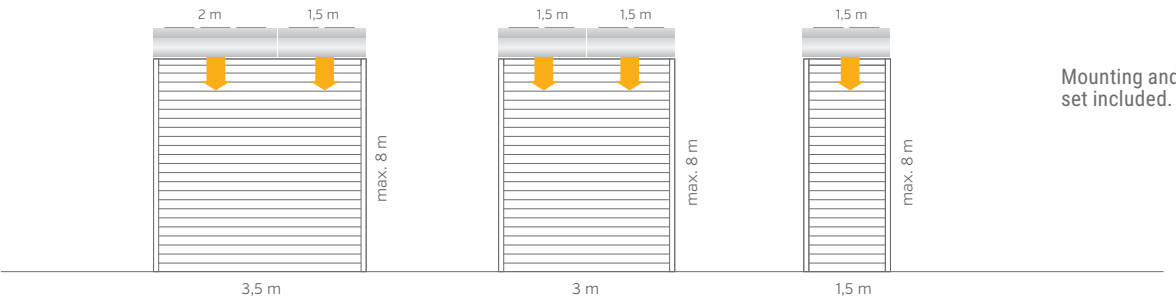
EXHAUST FLOW RATE:
8 500 - 12 800 m³/h
MAXIMUM AIR STREAM RANGE:
8 m

EC

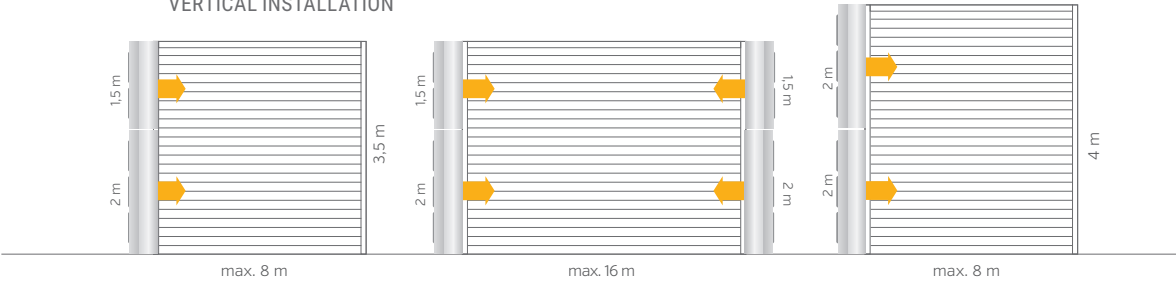


536 mm
530 mm

HORIZONTAL INSTALLATION

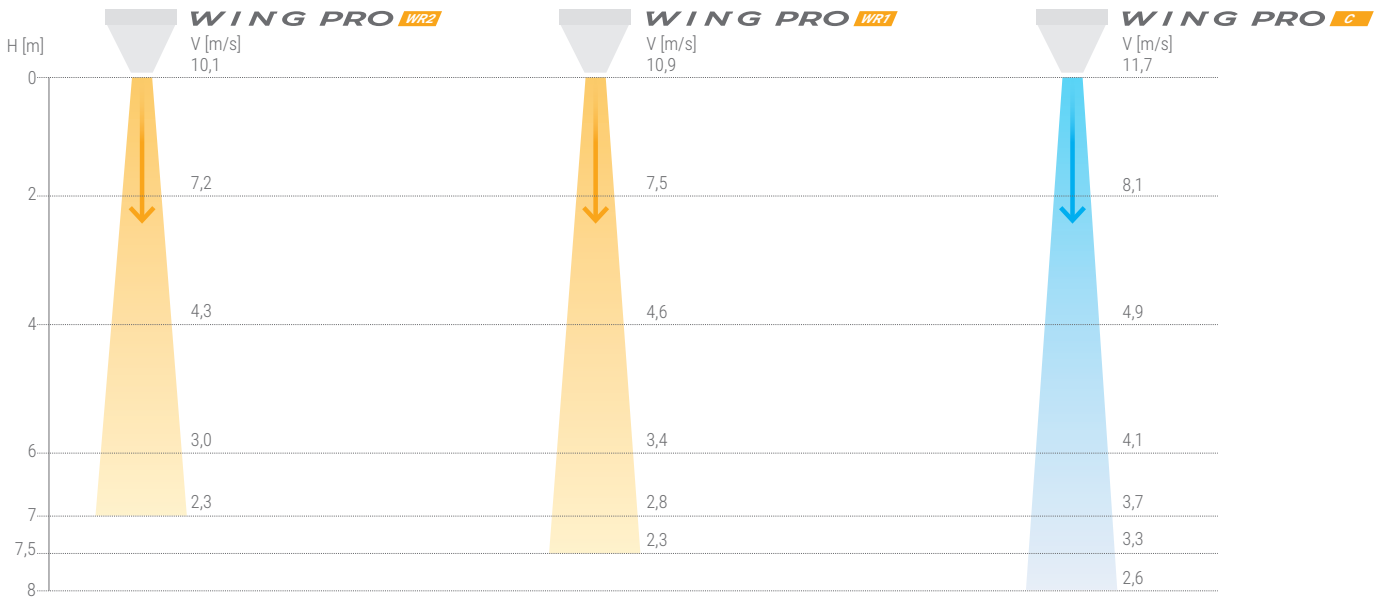


VERTICAL INSTALLATION



Mounting and connection set included.

Stream range



Technical parameters

PARAMETERS		WING PRO DOUBLE ROW COIL		WING PRO SINGLE ROW COIL		WITHOUT HEATING (AMBIENT)	
		W150	W200	W150	W200	C150	C200
		EC	EC	EC	EC	EC	EC
VTS article No.		1-4-2801-0349	1-4-2801-0355	1-4-2801-0348	1-4-2801-0354	1-4-2801-0347	1-4-2801-0353
Max. height of door	m	1,5	2	1,5	2	1,5	2
Max. air stream range	m	7		7,5		8	
Max. flow rate	m³/h	7 300	10 700	7 900	11 900	8 500	12 800
Heating power range	kW	17-58	28-88	3-32	15-48	-	
Max. temperature of heating medium	°C	130				-	
Max. Working pressure	MPa	1,6				-	
Diameter of stub pipe connectors	"	3/4				-	
Supply voltage	V/ph/Hz	~230/1/50					
EC motor power	kW	2 x 0,25	3 x 0,25	2 x 0,25	3 x 0,25	2 x 0,25	3 x 0,25
Rated current (EC motor)	A	2 x 1,3	3 x 1,3	2 x 1,3	3 x 1,3	2 x 1,3	3 x 1,3
Weight AC/EC (without water)	kg	53,6	69,6	50,5	66,1	43,4	58,3
IP protection rating	IP	54					

Accessories

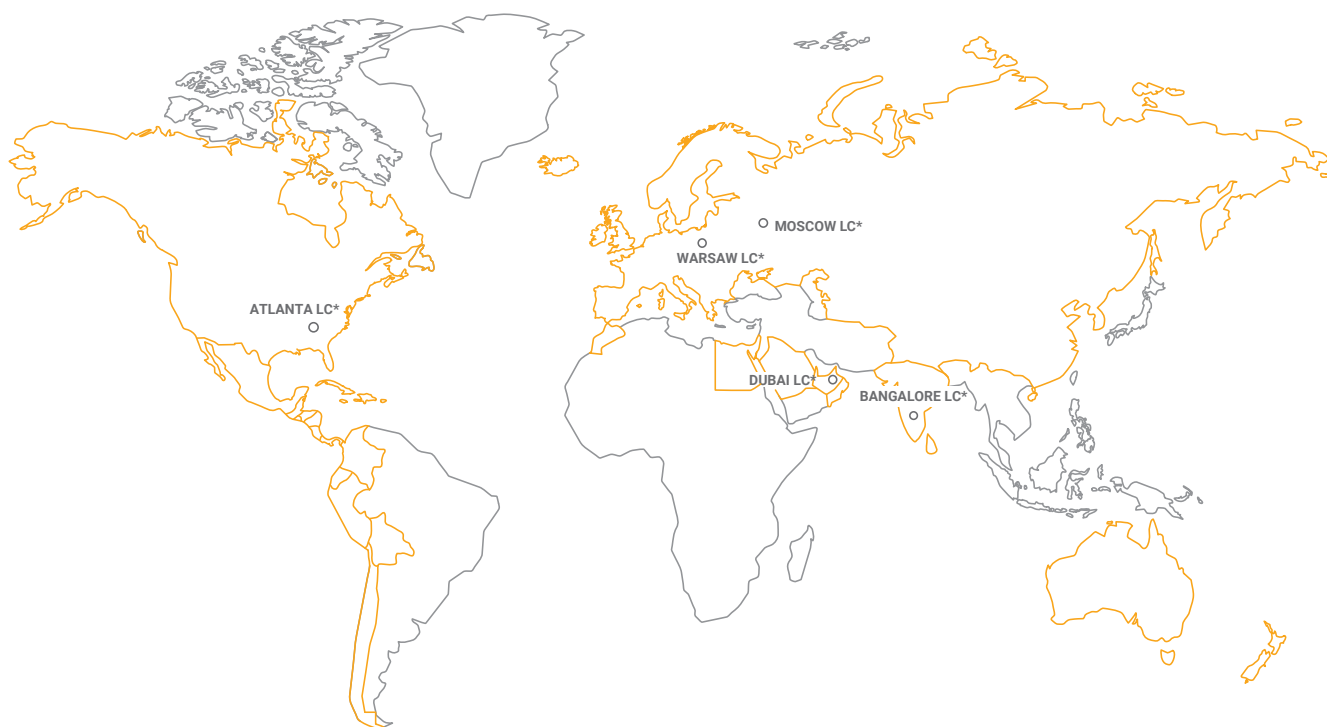
									
HMI WING EC controller	Controller WING EC WIFI	Door sensor (reed switch)	Valve with actuator	Flex. connection hoses (set)					
VTS article No.	1-4-2801-0155	VTS article No.	1-4-2801-0156	VTS article No.	1-4-0101-0454	VTS article No.	1-2-1204-2019	VTS article No.	1-2-2702-0076
Motor support	- EC	Motor support	- EC	Contact configuration	- NO	Power supply voltage	V/ph/ Hz ~230/1/50	Lenght	m 0,6-0,9
Power supply voltage	V/ph/ Hz ~230/1/50	Power supply voltage	V/ph/ Hz ~230/1/50	Switching current	mA 500	Opening	min 3/3	Connection type	GW 3/4"
Permissible load	A 1A for 230VAC 0,02A for 0-10V	Permissible load	A 1A for 230VAC 0,02A for 0-10V	Switching voltage	V max 200 V	Kvs	- 4,5	Max. fluid pressure	MPa 1,6
Setting range	°C 5...40	Setting range	°C 5...40	Connection	°C screw	Protection rating	IP 54	Min. working temperature for water	°C 5
Protection rating	IP 20	Protection rating	IP 20					Min. working temperature for glycol	°C -20
								Max. working temperature	°C 130
								Set includes	- hose (2 pcs) gasket (4 pcs)



Noise level

Fan speed	Noise level	WING PRO W R1		WING PRO W R2		WING PRO C	
		1,5m	2m	1,5m	2m	1,5m	2m
I	dB(A)*	45	46	45	45	47	48
II		55	57	54	55	57	58
III		64	65	62	63	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

DOWNLOAD **CATALOG**



EH CAD **SELECTION TOOL**



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