

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.

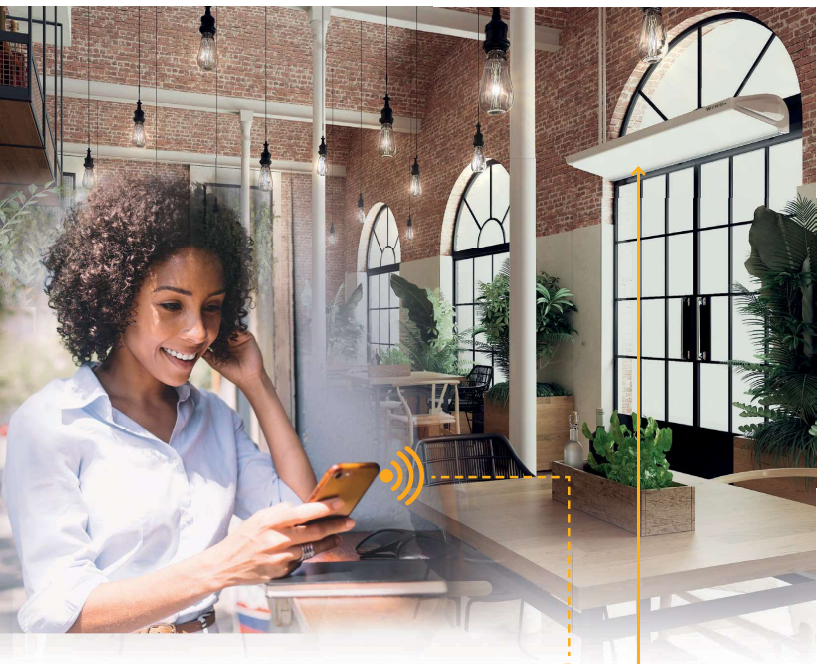
Quality and design

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 RATE:

1850-4400 m³/h

MAXIMUM AIR COVERAGE:

3,7 m

WING E

ELECTRIC HEATER

HEATING POWER RANGE:

2 - 15 kW

EXHAUST FLOW RATE:

1850-4500 m³/h

MAXIMUM AIR COVERAGE:

3,7 m

WING C

WITHOUT HEAT EXCHANGER (AMBIENT)

EXHAUST FLOW RATE:

4 m

EXHAUST FLOW RATE:

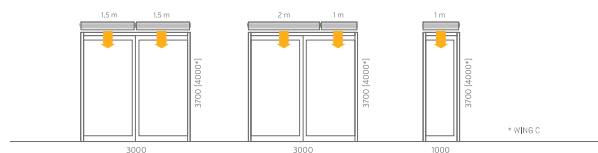
1950-4600 m³/h

WING 100/150/200

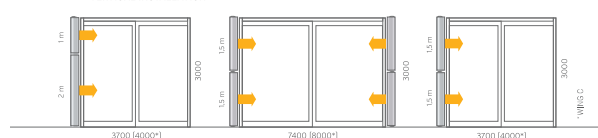


* width does not include side covers

HORIZONTAL INSTALLATION

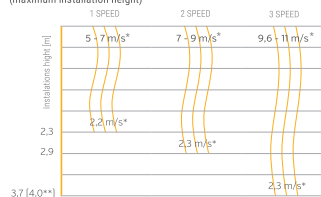


VERTICAL INSTALLATION



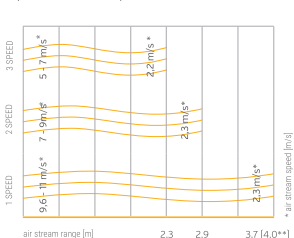
Stream range

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

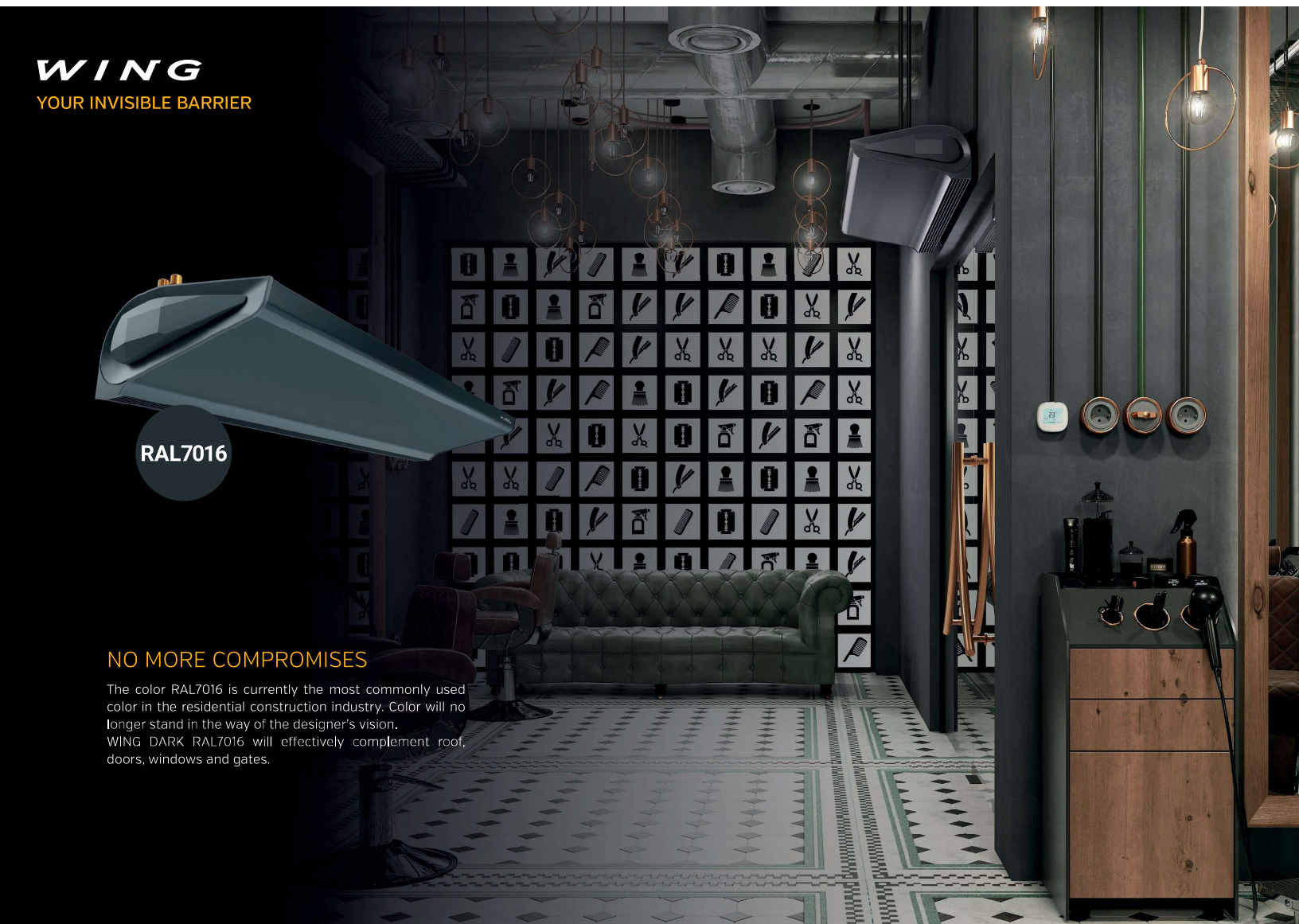
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RAL7016

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.	1-4-2801-0050	1-4-2801-0059	1-4-2801-0059	1-4-2801-0060	1-4-2801-0060	1-4-2801-0061	1-4-2801-0061	1-4-2801-0062	1-4-2801-0062	1-4-2801-0063	1-4-2801-0064	1-4-2801-0064	1-4-2801-0065	1-4-2801-0065	1-4-2801-0066	1-4-2801-0067	1-4-2801-0067	1-4-2801-0067	
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 200 ~400/3/50 for 4/6/8/10		~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

			
Sterownik HMI WING EC	Controller WING EC WIFI	Wall controller WING/VOLCANO	Door sensor (reed switch)
VTS article No. 1-4-0101-0155	VTS article No. 1-4-2801-0156	VTS article No. 1-4-0101-0438	VTS article No. 1-4-0101-0454
Motor support EC	Motor support EC	Motor support AC	Contact configuration NO
Power supply voltage ~230V/1ph /50Hz	Power supply voltage ~230V/1ph /50Hz	Power supply voltage 50V 0/1ph/Hz	Switching current 500 mA
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
Setting range 5...40 °C	Setting range 5...40 °C	Setting range 10...30 °C	Connection screw
Protection rating IP 20	Protection rating IP 20	Protection rating IP 30	
			
Door sensor adapter WING AC	Valve with actuator	Flex. connection hoses (set)	Surface mounted box for HMI
VTS article No. 1-4-0101-0578	VTS article No. 1-2-1204-2019	VTS article No. 1-2-2702-0076	VTS article No. 1-2-0393-1987
Power supply ~230V/1ph /50Hz	Power supply voltage ~230V/1ph /50Hz	Length 0,6-0,9 m	dimensions 100x100x70mm
Rated input power 1W	Opening 3/3 min	Connection type G1/4"	type surface mounted
Protection rating IP 55	Kvs 4,5	Max. fluid pressure 1,6 MPa	color RAL 9016
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	set includes bracket and 2 screws
		Min. working temperature for glycol -20 °C	
		Max. working temperature 130 °C	
		Set includes hose (2 pcs) gasket (4 pcs)	



Smart entrance protection

INSIDE

- ← CHILLED AIR
- ← CLEAN AIR

OUTSIDE

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

Noise level

Fan speed	Noise level	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

** audible heating power in the control option configuration: WING E100 2 or 4/50W, for WING E150 8/120W, for WING E200 10/150W

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