



WING

AIR CURTAIN



YOUR
INVISIBLE
BARRIER

WING

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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 WING controller



- » modern and compact design
- » high contrast and clear screen
- » advanced calendar for each day of the week
- » door sensor cooperation
- » BMS systems compatibility
- » 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 100/150/200



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:

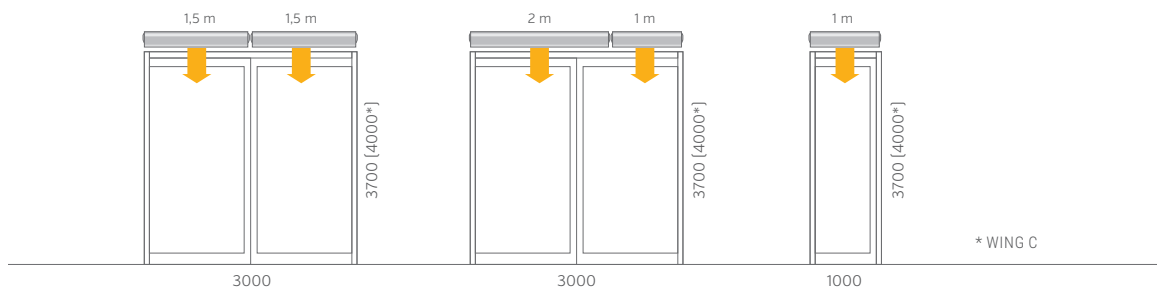
4 m

EXHAUST FLOW RATE:

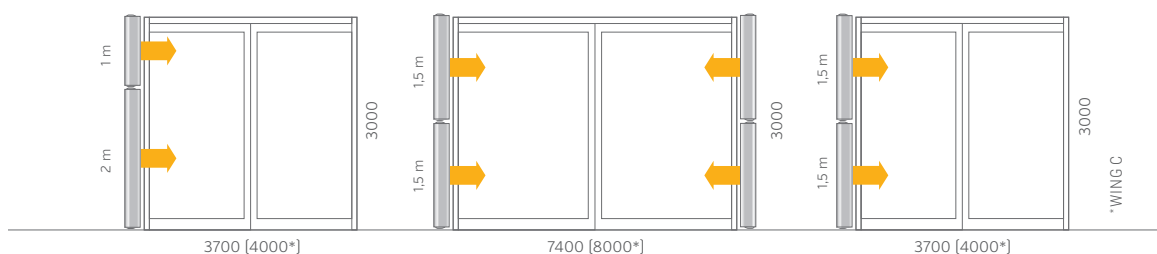
1950-4600 m³/h

* width does not include side covers

HORIZONTAL INSTALLATION

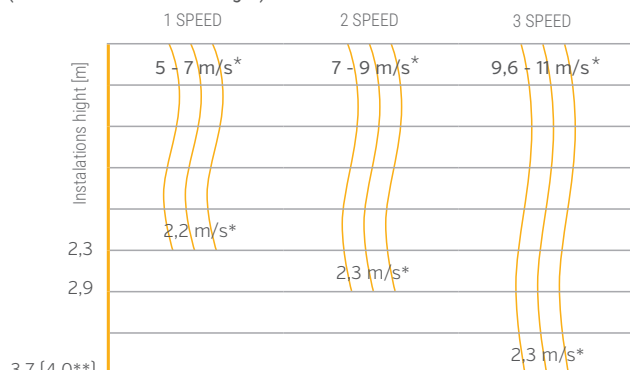


VERTICAL INSTALLATION



Stream range

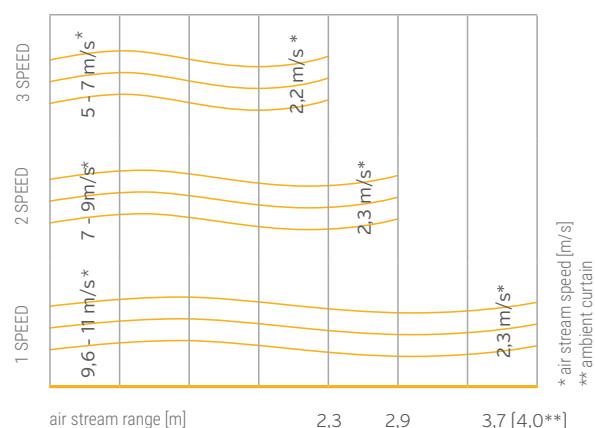
Vertical air stream range (maximum installation height)



* air stream speed [m/s]

** ambient curtain

Horizontal air stream range (for vertical installation)



* air stream speed [m/s]

** ambient curtain

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
VTS article No.		1-4-2801-0250	1-4-2801-0259	1-4-2801-0251	1-4-2801-0260	1-4-2801-0252	1-4-2801-0261	1-4-2801-0253	1-4-2801-0262	1-4-2801-0254	1-4-2801-0263	1-4-2801-0255	1-4-2801-0264	1-4-2801-0256	1-4-2801-0265	1-4-2801-0257	1-4-2801-0266	1-4-2801-0258	1-4-2801-0267
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																	
casing colour		RAL 9016, outlet grid: RAL 9022																	

Accessories



HMI WING EC controller



Wall controller WING/VOLCANO



Door sensor (reed switch)*



Valve with actuator



Flex. connection hoses (set)

VTS article No.	1-4-2801-0155	VTS article No.	1-4-0101-0438	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	- AC	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 6(3)	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 10...30	Connection	screw	Protection rating	IP 54	Min. working temperature for water	°C 5
Protection rating	IP 20	Protection rating	IP 30					Min. working temperature for glycol	°C -20
								Max. working temperature	°C 130
								Set includes	- hose (2 pcs) gasket (4 pcs)



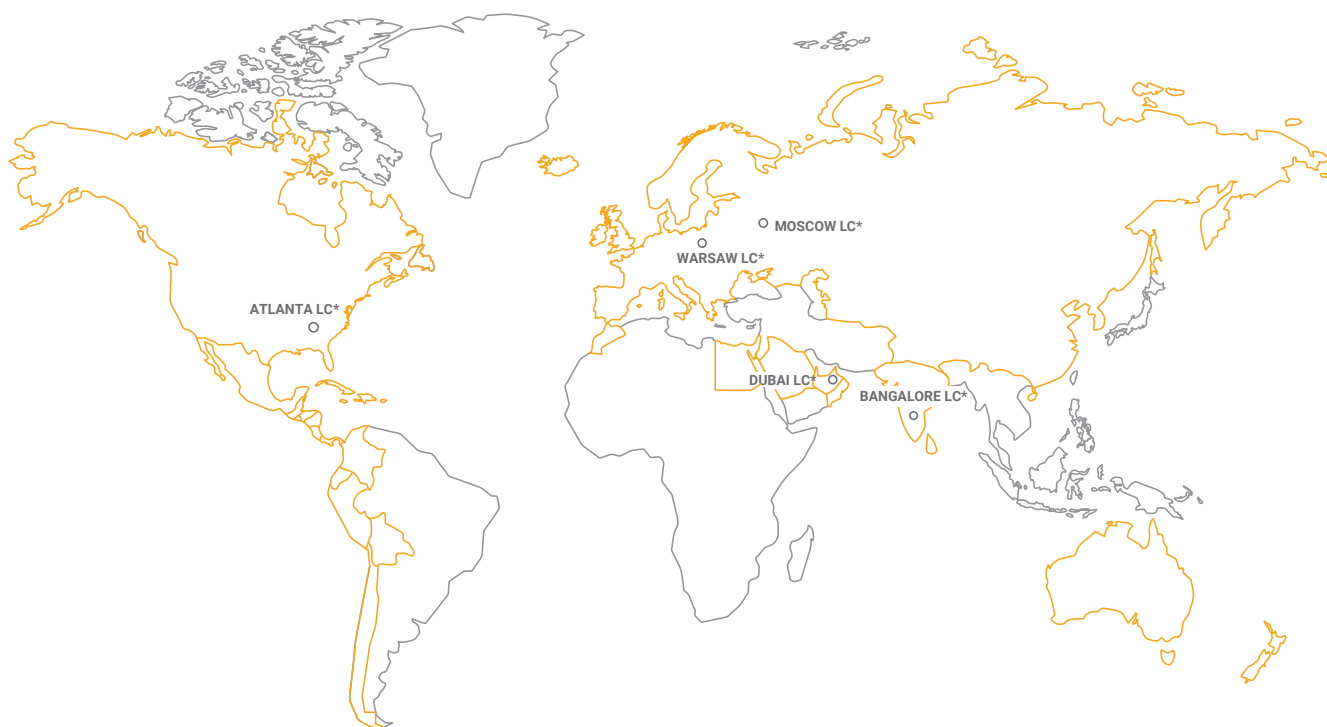
Noise level

Fan speed	Noise level	WING 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 2/6 kW or 4/6 kW, for Wing E150 4/12kW or 8/12kW, for Wing E200 6/15 kW or 9/15 kW

*** 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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VTS assuring continuous improvement for products and data and reserves the right to change design and specifications without notice.