VTS

WING

AIR CURTAIN

YOUR
INVISSIBLE
BARRIER

WING

YOUR INVISIBLE BARRIER

ISO 9001 BUREAU VERITAS Certification

CE

PZH

ErP Ready

RoHS

REACH COMPLIANCE

ECO EC Motor Inside

MADE IN EUROPE

WING is 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 effiecient 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 controler

DOOR OPTIMUM function

Door Optimum function allows the WING to maintain full protection of the door opening and at the same time optimize costs assosiated 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 E

ELECTRIC HEATER

HEATING POWER RANGE:
2 – 15 kW

EXHAUST FLOW RAT:
1850-4500 m³/h

MAXIMUM AIR COVERAGE:
3,7 m

WING C

WITHOUT HEAT EXCHANGER (AMBIENT)

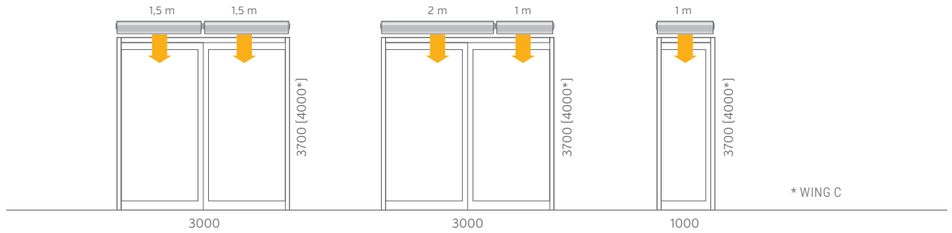
EXHAUST FLOW RATE:
4 m

EXHAUST FLOW RAT:
1950-4600 m³/h

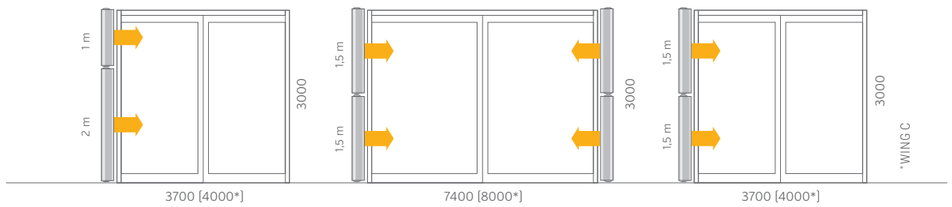
WING 100/150/200

* width does not include side covers

HORIZONTAL INSTALLATION

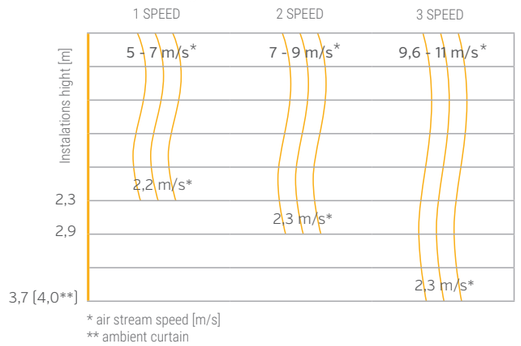


VERTICAL INSTALLATION

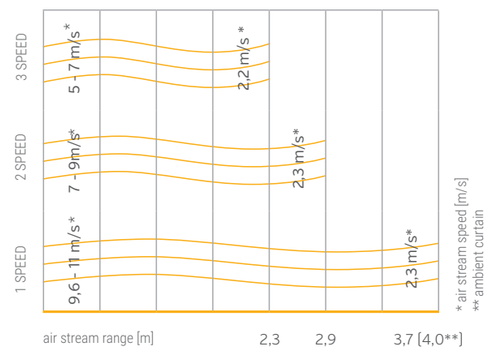


Stream range

Vertical air stream range
(maximum installation height)



Horizontal air stream range
(for vertical installation)



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

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

Wall controller WING/VOLCANO

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

Door sensor (reed switch)*

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

Valve with actuator

VTS article No.		1-2-1204-2019
Power supply voltage	V/ph/Hz	~230/1/50
Opening	min	3/3
Kvs	-	4,5
Protection rating	IP	54

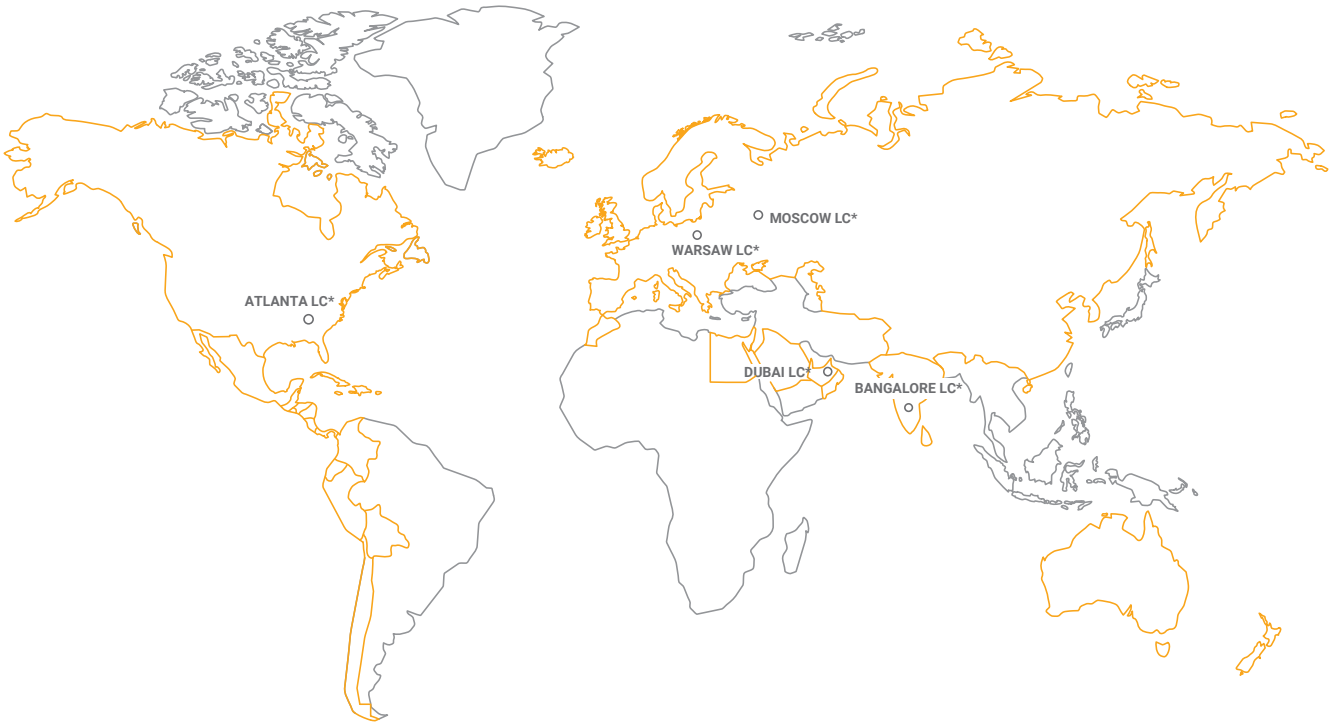
Flex. connection hoses (set)

VTS article No.		1-2-2702-0076
Lenght	m	0,6-0,9
Connectrion type	GW	3/4"
Max. fluid pressure	MPa	1,6
Min. working temperature for water	°C	5
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 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



COMPETETIVE
$PRICE

HIGH
QUAILTY

OVER
1 000 000
UNITS
SOLD

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EH CAD **SELECTION TOOL**

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