



Your projects, challenges and requirements are our focus. We have a dedicated team that can engineer tailored solutions for your commercial HVAC application.

Oceania Solutions Group is an Australian owned business that focuses on providing engineered HVAC solutions. We value the importance of relationships with our clients and partners. Our team enjoy collaborating and solving complex 'design and construct' projects for your business with our product solutions.

Oceania Solutions Group are proud of our extensive portfolio and experience within HVAC industry. From industrial applications through to commercial air conditioning installations for tropical and high humidity environments.

Operating throughout Australia, New Zealand and the South Pacific Islands, we provide engineered technical data and commercial support for a wide range of HVAC solutions.

Our experienced team of HVAC professionals work hand-in-hand with market leading suppliers of HVAC solutions and equipment.

With international accreditation from Eurovent, CTI, AHRI, TÜV and AMCA, our products are rigorously tested and certified, meeting Australian and New Zealand standards and regulations.

Partnering with trusted international suppliers, we are available to provide an engineered solution for your next project.

Components and features

WING is the new generation device created from a passion for a light and modern design. Representing characteristics of gliders, the minimal casing has a streamlined form of a wing, that seems to float in the air. The diamond style side panels hide 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.





Quiet operation



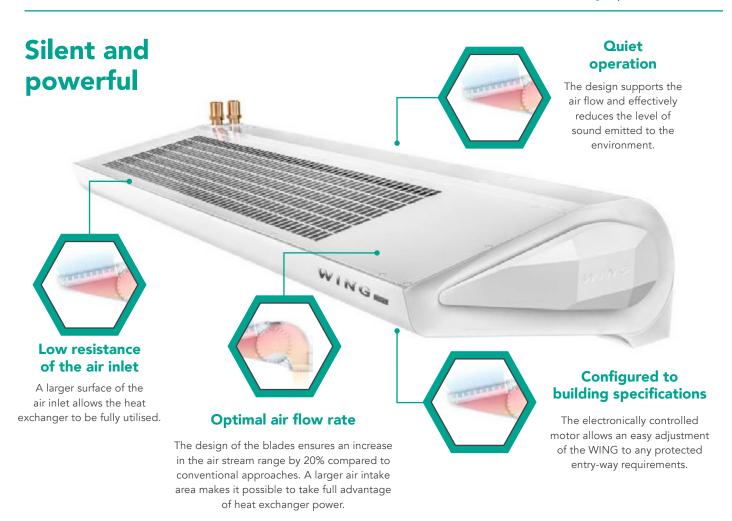
Efficient and reliable EC motors



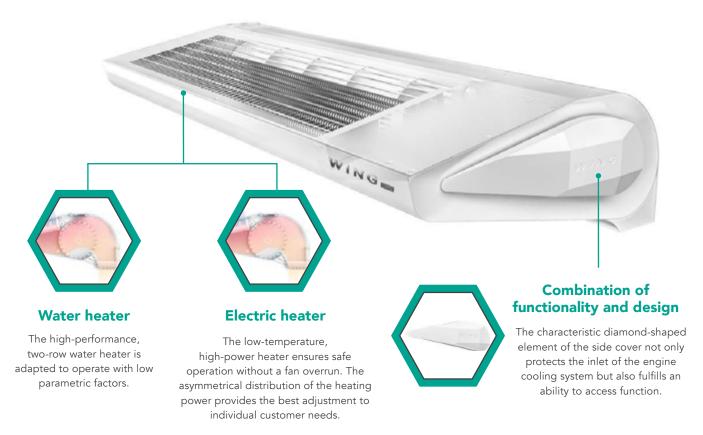
BIM compatible Revit® files

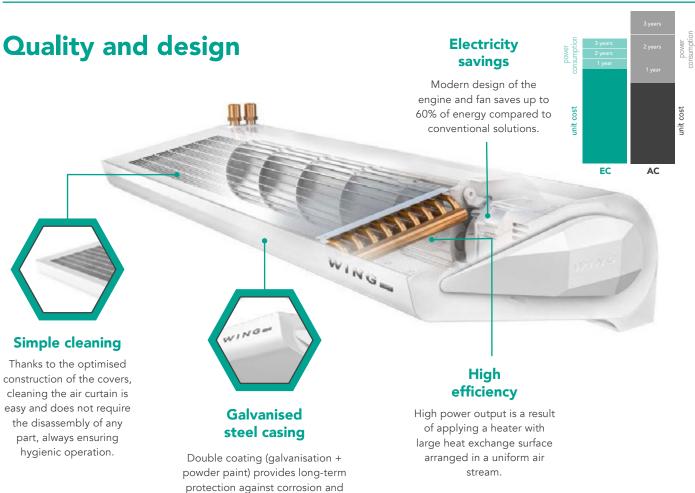


Available online 24/7 oceania-group.com/air-curtains



Design and performance





consistent aesthetic qualities.

Technical parameters

		Water air curtain Electrical air curtain				Ambient air curtain				
Parameters	UNIT	WING W100	WING W150	WING W200	WING E100	WING E150	WING E200	WING C100	WING C150	WING C200
		EC	EC	EC	EC	EC	EC	EC	EC	EC
VTS article No.		1-4-2801- 0055	1-4-2801- 0056	1-4-2801- 0057	1-4-2801-0058	1-4-2801- 0059	1-4-2801- 0060	1-4-2801- 0061	1-4-2801- 0062	1-4-2801- 0063
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 exhaust flow rate***	m³/h	1850	3100	4400	1850	3150	4500	1950	3200	4600
heating power range*	kW	4-17 10-32 17-47			2/6 or 4/6 4/12 or 8/12 6/15 or 9/15					
maximum temperature of heating agent	°C	95						-		
maximum operating pressure	MPa	1,6						·		
water volume	dm³	1,6 2,6 3,6						·		
number of	pcs	2								
supply voltage	V/ph/Hz	~ 230/1/50			~230/1/50 for 2kW 400/3/50 for 2/4/6kW	~400)/3/50	~230/1/50		
electric heating coil power	kW	-			2 i 4	4 i 8	6 i 9			
electric heating coil current draw	А				3/6/ max 9	6/11,3/ max 17,3	8,5/12,9/ max 21,4			
motor power (EC motor)	kW	0,2	0,3	0,45	0,2	0,3	0,45	0,2	0,3	0,45
rated current (EC motor)	А	1,1	1,3	1,9	1,1	1,3	1,9	1,1	1,3	1,9
weight (without water) EC	kg	21,5	29	37,5	22	30,5	39	19	25,5	32,5
protection rating	IP	IP20 (standard) / IP54 (optional)								
casing colour		RAL 9016, outlet grid: RAL 9022								

EAN CREED LINE		WATER AIR CURTAIN			ELECTRIC AIR CURTAIN			AMBIENT AIR CURTAIN		
FAN SPEED	UNIT	1m	1,5m	2m	1m	1,5m	2m	1m	1,5m	2m
Ш		61	63	66	62	62	64	66	67	67
II	dB(A)***	59	62	65	55	60	63	63	66	65
I		56	57	60	53	55	59	57	58	61

^{*} 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

3 Constituents of Success Worldwide







^{**} air stream range depends on curtain operation speed

^{***} measurement conditions: semi-open space, horizontal installation on the wall, measurement performed 3 m away from the device

Controller WING EC



- Cooperation with door sensor
- Time calendar for workdays and weekends
- Works with BMS systems
- Possibility of working in 3-level mode of speed control and 2-level mode of heating power
- Up to 8 air curtains can be connected to one controller

Why VTS?

The highest quality products. Competitive market prices. Short delivery times. These three pillars of our market policy are why VTS is always one step ahead worldwide.

HMI-WING EC is a control panel, dedicated for all types of WING curtains. It has an interface with RTU Modbus protocol for easy integration with building management systems (BMS). It is characterised by very easy and intuitive operation due to the comfortable, practical keypad and backlit screen.

HMI-WING EC controller has been made from electronic materials of the highest class. The panel is adapted for continuous operation with 230 V AC single-phase power supply. Due to the well-thought design, the controller is installed in a very easy manner on a special mounting bracket in the Ø60 mm flush mounting box. The mounting bracket enables easy installation and removal of the panel. Electric wires are connected directly to the terminal block, located at the back of the controller. The panel enables three-position regulation of rotational speed of the fans with EC motors, as well as two-position regulation of the heating power.

Due to the integrated thermostat and temperature sensor as well as programmer function, the controller defines operating parameters in the weekly schedule (on working days/at weekend, with 2 heating periods per 24 hours).

The installation of an external door sensor enables the selection of one of three modes of automatic operation:

- Door (default one): heating with the air supply or only the air supply, maintenance of set temperature. Active only with an open door.
- Room: heating with the air supply or only the air supply (air supply activated manually), maintenance of the set temperature. Active regardless of the status of the door sensor.
- Door + room: heating with the air supply or only the air supply, maintenance of the set temperature. Active, depending on the status of the door sensor.

HMI-WING EC controller optimises the operation of the curtains, ensuring their continuous and reliable operation, and well-thought functions of the device provide significant power efficiency.



Accessories



Controller WING EC					
VTS article No.	1-4-2801-0155				
Motor support	EC				
Power supply voltage	V/ph/Hz	~230/1/50			
Permissible load	А	1A for 230VAC 0,02A for 0-10V			
Setting range	°C	540			
protection rating	IP	30			



Controller WING EC					
VTS article No.	1-4-0101-0451				
Motor support	EC				
Power supply voltage	V/ph/Hz	~230/1/50			
Permissible load	А	1A for 230VAC 0,02A for 0-10V			
Setting range	°C	540			
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			



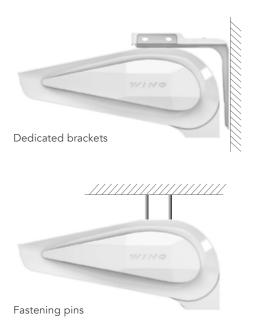
With actuator (VA-VEH202TA)						
VTS article No. 1-2-1204-2019						
Power supply voltage	V/ph/Hz	~230/1/50				
Opening/	min	3-Mar				
Kvs	-	4,5				
protection rating	IP	54				

^{*} cooperations with WING EC controller

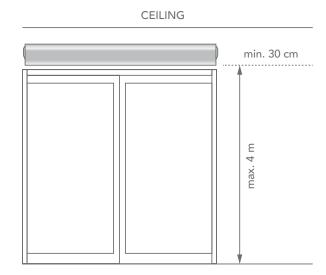


Installation

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



The maximum mounting height is 4m. The minimum distance between the air outlet of the curtain and the ceiling is 30 cm.



Installation template



Dimensions



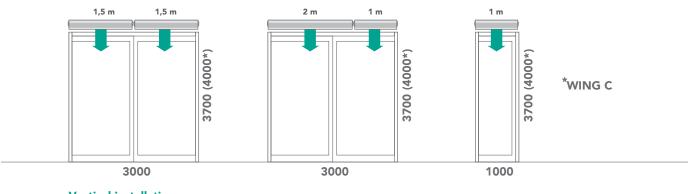
Curtain type	W1 [mm]	W2 [mm]
WING 100	772	-
WING 150	502	772
WING 200	921	910

Installation example

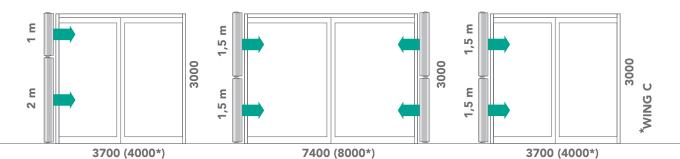
Every WING Air Curtain can be mounted horizontally and vertically, except for electric. Electric is the only air curtain that cannot be mounted vertically. Due to the slim design, very small height of the housing and the inclined air inlet, the device may be mounted in a limited space above the door, without any effect on performance.



Horizontal insatallation



Vertical installation



Electric curtain cannot be mounted vertically!

WING curtain with EC motor



Energy efficiency

- Higher efficiency throughout the adjustment range in comparison to regular motors
- Excellent durability
- Low maintenance costs
- Possibility of connecting directly to BMS system
- Silent with considerable rates of rotation
- Adjustment of fan rates rotation with 0-10V DC signal

Technical parameters



Water heat exchanger

Heating power range:

4 - 47 Kw

Exhaust flow rate:

1850-4400 M3/h

Maximum air coverage:

3,7 M

WING

Electric heating coil

Heating power range:

2 - 15 Kw

Exhaust flow rate:

1850-4500 M3/h

Maximum air coverage:

3,7 M

WING

Without heat exchanger (ambient)

Maximum air coverage:

4 M

Exhaust flow rate:

1950-4600 M3/h

200 W/E/C

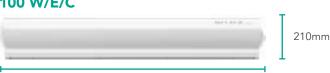


2098mm

150 W/E/C



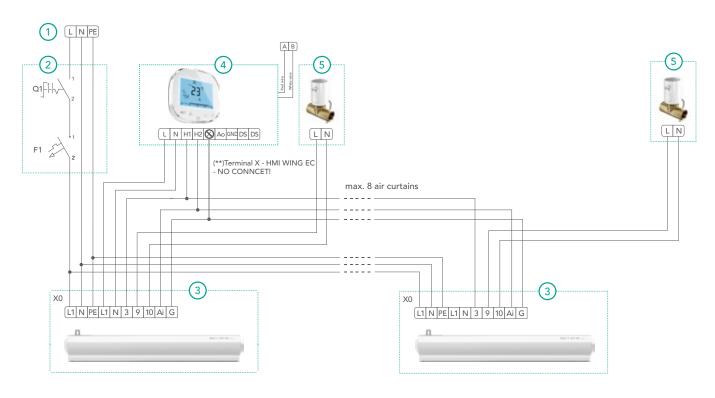
100 W/E/C



1066mm



Sample connection diagram for the air curtain



- 1. Power supply 230V/50 Hz
- 2. Main switch, fuses
- 3. WING W100/150/200
- 4. HMI WING EC controller

5. Valve with actuator

All EC air curtains are characterised by ease and simplicity of connection





Recent projects

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Avantiplus

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Fish Factory Morningside Queensland

CISH FACTORY

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