INSTALLATION, OPERATION AND MAINTENANCE MANUAL

Air Curtains WINDBOX BB

Please, read these instructions carefully before attempting installation

SECURITY ADVISE SYMBOLS

Attention, Danger, Safety Advice!

Danger from electric current or high voltage!

Injuries risk!

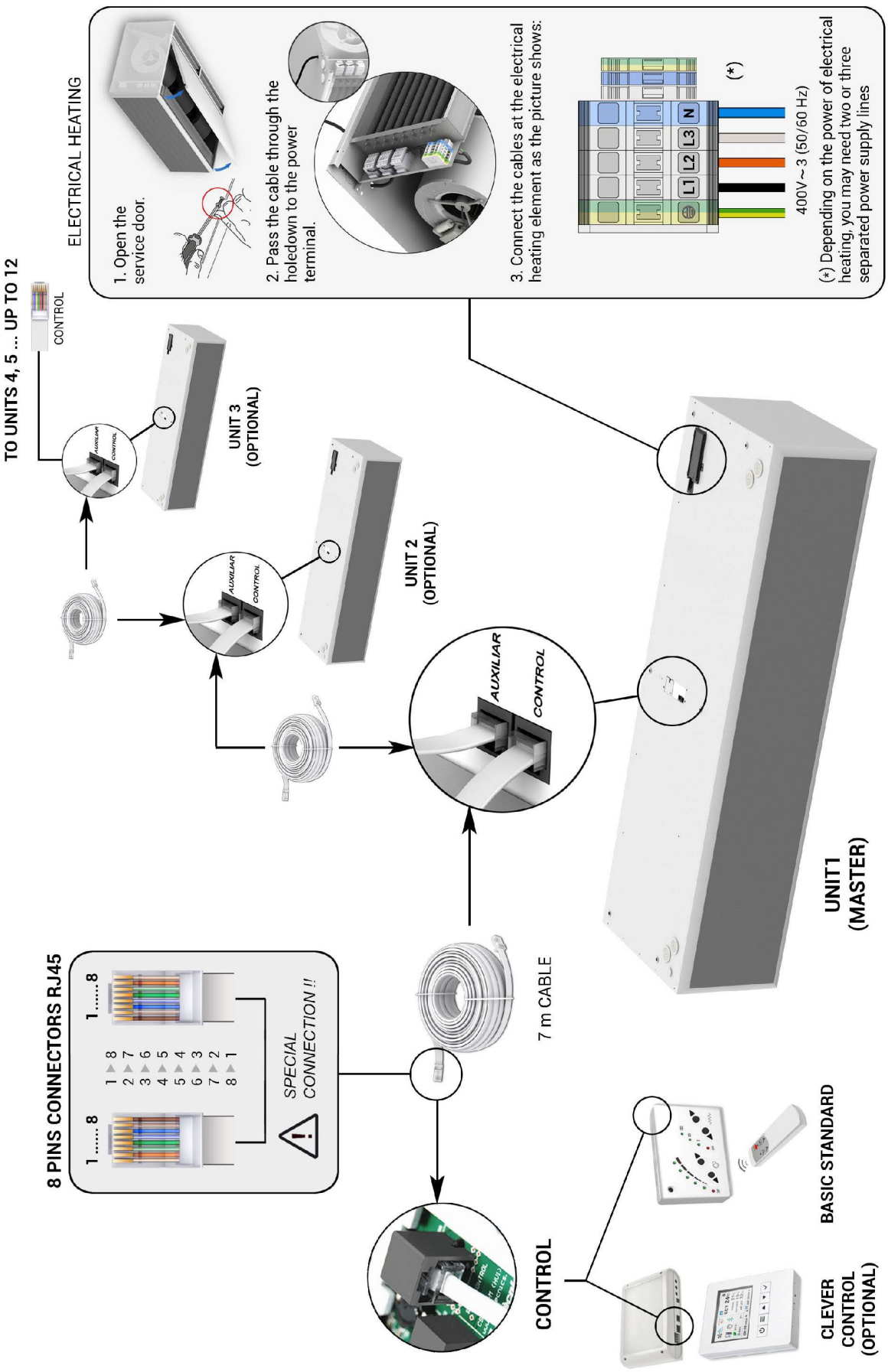
Danger! Do not stay underneath: Heavy load.

Important information.

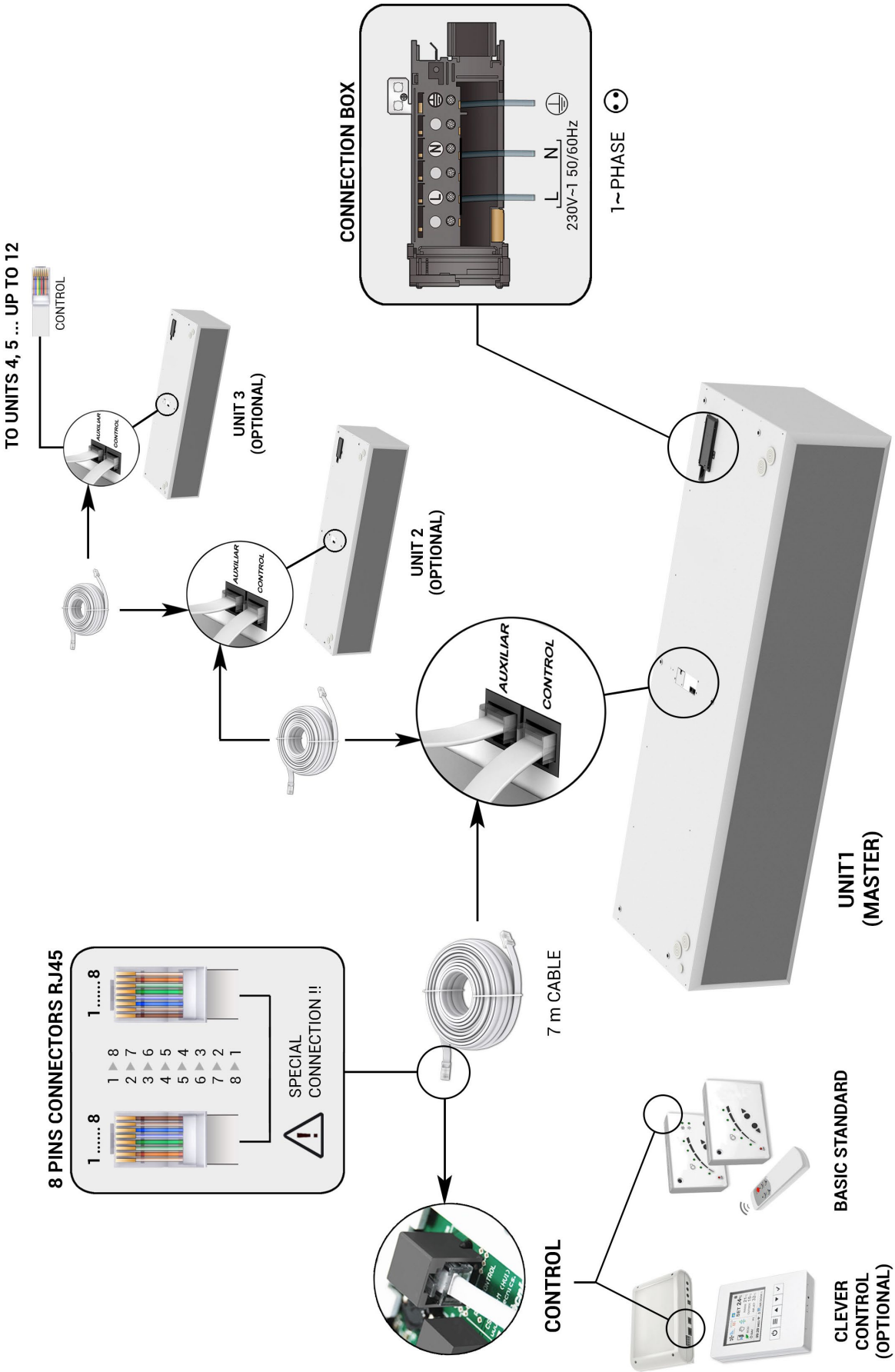
AIRDOM05521-R14 (13/05/24)

INDEX

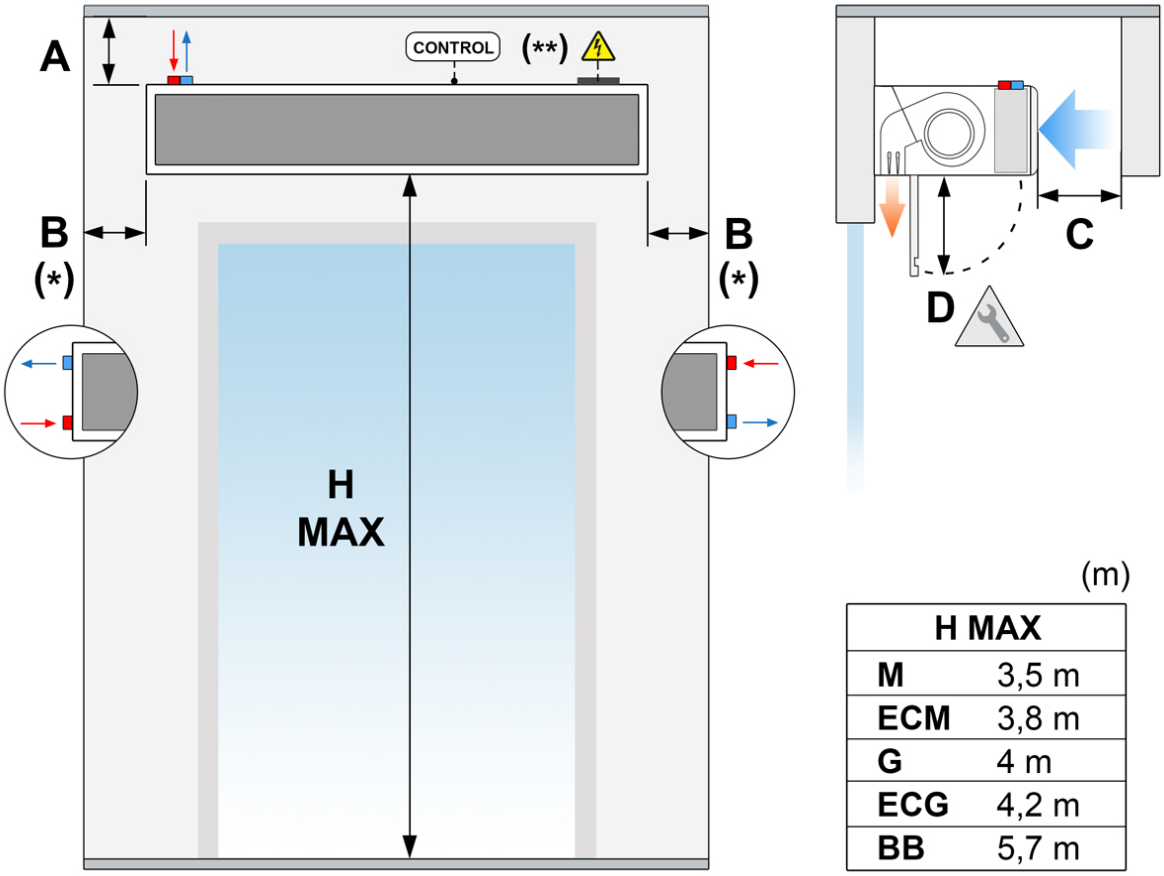
CONNECTION DIAGRAM – ELECTRICAL MODELS



CONNECTION DIAGRAM – WATER AND UNHEATED MODELS



Valid models: **Windbox BB**



(m)

H MAX	
M	3,5 m
ECM	3,8 m
G	4 m
ECG	4,2 m
BB	5,7 m

(mm)

	A	B	C	D
MG	200 (Min)	100 (Min)	200 (Min)	330
BB				370
LXL				1142

H MAX: Maximum recommended height, Min: Minimum recommended distance
(*) Standard units. Under request this distance can be reduced up to 1cm when connections are placed inside and when lateral water pipes.
Minimum recommended distance between the inlet grille and any obstacle is of 200 mm.

	Installation work, connection, disconnection, electrical wiring, mechanical maintenance and service must be done by qualified people observing these instructions and in accordance with all applicable norms and standards. ***If the unit is operated with additional controller, please consider its specific instructions.***
	There is no need to open the service door to connect the air curtain. All connections (power supply, control, water pipes when existing) and fixations are external. They are placed on top or lateral of the units. See how to open service door at repairs section.
	For safety, the air curtains never have to be stopped by disconnecting them from the main supply, always through the controller and waiting 10 minutes at least to disconnect the main supply. In case to not follow these instructions, the internal parts of the air curtain can be damaged.

Power Supply

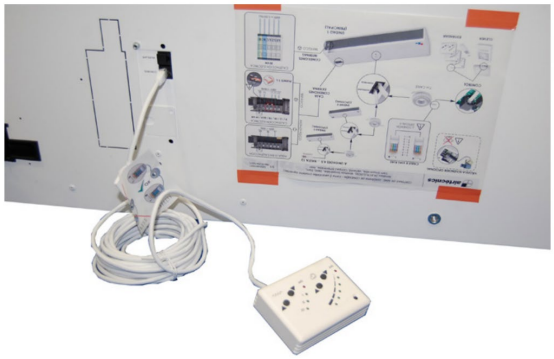
To connect the power supply there is a black connection box outside the air curtain (located on top).

For an ambient air or water heated air curtain, just connect the single phase 230Vx1.

In case of an air curtain with electrical heating we will also connect the three phase 400Vx3 of the electrical element.

PCBoard and Control

To connect the controller to the curtain, there is a connector located on the top of the outside of the air curtain. It is not necessary to open the curtain to connect it, except for internal connections. Use the 10 meter RJ45 cable supplied with the equipment. The communication between the controller and the board is digital and low voltage.



Fixing

Units are provided of several external suspension points, depending on the weight and length of each model (see exact situation of the points at the air curtains characteristics page).

Generally, air curtains work horizontally but also can be installed vertically using feet supports (*Accessories* section).

The fixing of the air curtain should be managed according to the weights of each unit shown on the technical data page. The installation can be made through threaded rods, cable tensors or other supports. See available supports in the accessories section.

Water coils

It is recommended:

- Close the hot water circulation (by turning the electrovalve OFF) to avoid fan overheating while the unit is OFF. Electrovalve is optional.
- Install 2 cutoff water valves (supply and return) in order to disassemble the equipment easily.
- Install a bleeding valve at the highest part of the water heating circuit.

The ambient temperature should be always over +4ºC, otherwise it will be necessary to provide an anti-frost protection device.

Water coils have a drainage point placed at the end part of the intake manifolds area.

Some special units are provided with condensation tray prepared to work with cold water. In this case, these units can't work at high ventilation speed (depending on model, length and power it will be a speed limitation). Intake air speed should not be higher than 3m/s because water drops can appear on the outlet.

Electrical elements

The heater element has resistances bars (the number depends on length) that combined give 3 stages of heating. The control is made by contactors.

All electrical elements are protected electrically and electronically against overheating (see "*Operating instructions*" section).
The electrical controllers have the option to install an external thermostat that turns on/off the heating in order to control the temperature.
During the first uses scent can be emitted but it disappears in a few days.

STORAGE AND TRANSPORT

Attention! Heavy load.
Do not step underneath hanging load during the transport or assembly.

Store in a dry place and weather protected in its original packaging. In case the packing is opened, cover the air curtain to protect it from dust. Do not step or put heavy load over the package to avoid damages to the material. Store temperatures are between -20ºC and +40ºC.

When carrying material, make sure it is not damaged by the forklift (fork penetration in the packaging). Please see the *Packaging* indications.

WORKING INSTRUCTIONS

For safety, the air curtains never have to be stopped by disconnecting them from the main supply, always through the controller and wait for 10 minutes at least to disconnect the main supply. In case to not follow these instructions, the internal parts of the air curtain can be damaged.

Characteristics of regulation boards

Depending on the type of fan, the air speed is regulated by:

- BB: from 0 - 10V DC voltage range.

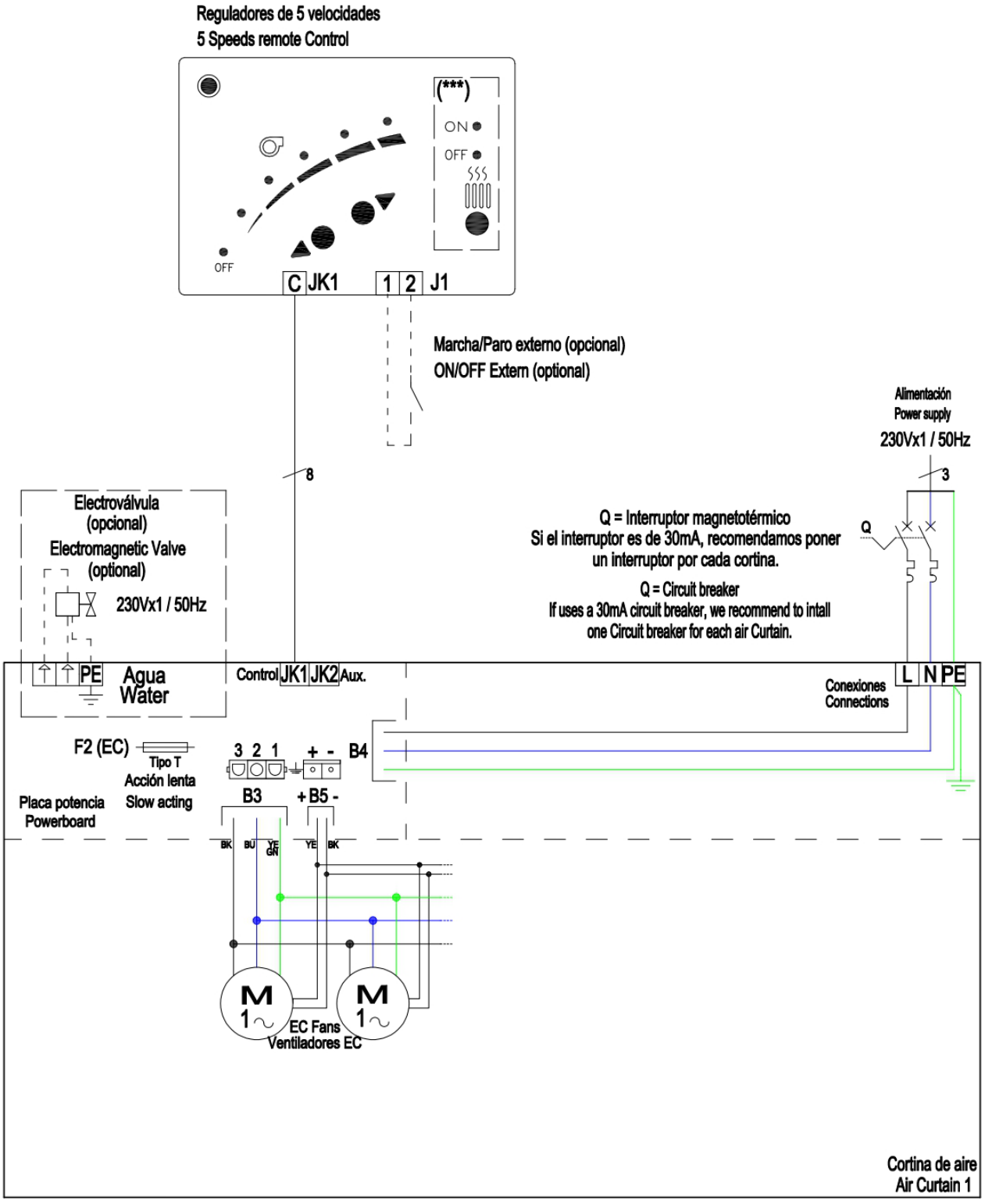
WIRING DIAGRAMS

For the models Windbox BB, the following wiring diagrams are enclosed:

- Warm water heated or only air 1000-2000 with Standard Control. Diagram: AIRDOE09031
- Warm water heated or only air 2500-3000 with Standard Control. Diagram: AIRDOE09034
- Electrical air curtain 1000-1500 with Standard Control. Diagram: AIRDOE09035
- Electrical air curtain 2000 with Standard Control. Diagram: AIRDOE09037
- Electrical air curtain 2500-3000 with Standard Control. Diagram: AIRDOE09039

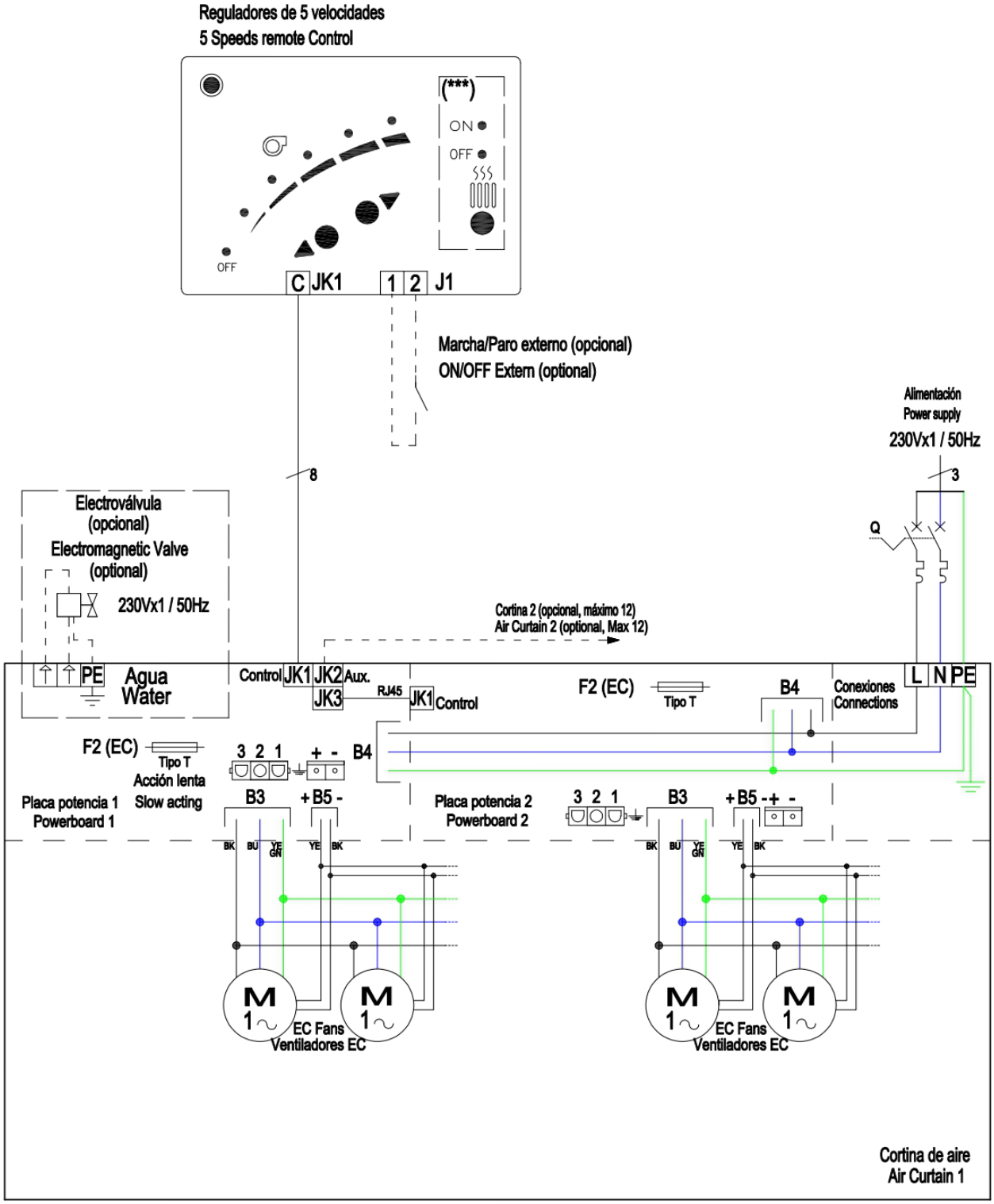
In case you need to connect the equipment to a PLC, the corresponding wiring diagrams will be supplied.

Air curtain Cortina	Power supply Alimentación	Number of Fans
1000	0,87kW	3
1500	1,16kW	4
2000	1,74kW	6



ESQUEMAS ELÉCTRICOS CORTINA DE AIRE VENTILADORES EC
WIRING DIAGRAMS OF AIR CURTAIN EC FANS
CONTROLADOR 5 VELOCIDADES AGUA O AIRE CORTINA BB1000, 1500, 2000
CONTROLLER 5 SPEEDS. ONLY AIR & WATER. AIR CURTAIN BB 1000, 1500, 2000

Air curtain Cortina	Power supply Alimentación	Number of Fans
2500	2kW	4+3
3000	2.3kW	4+4



Air curtain Cortina	Heating + fan Calefacción + ventilador	Number of Fans
1000 E21kW	21kW + 0.87kW	2
1500 E27kW	27kW + 1.16kW	3

ESQUEMAS ELÉCTRICOS CORTINA DE AIRE VENTILADORES EC
WIRING DIAGRAMS OF AIR CURTAIN EC FANS
CONTROLADOR 5 VELOCIDADES AGUA O AIRE CORTINA BB 2500, 3000
CONTROLLER 5 SPEEDS ONLY AIR & WATER. AIR CURTAIN BB 2500, 3000

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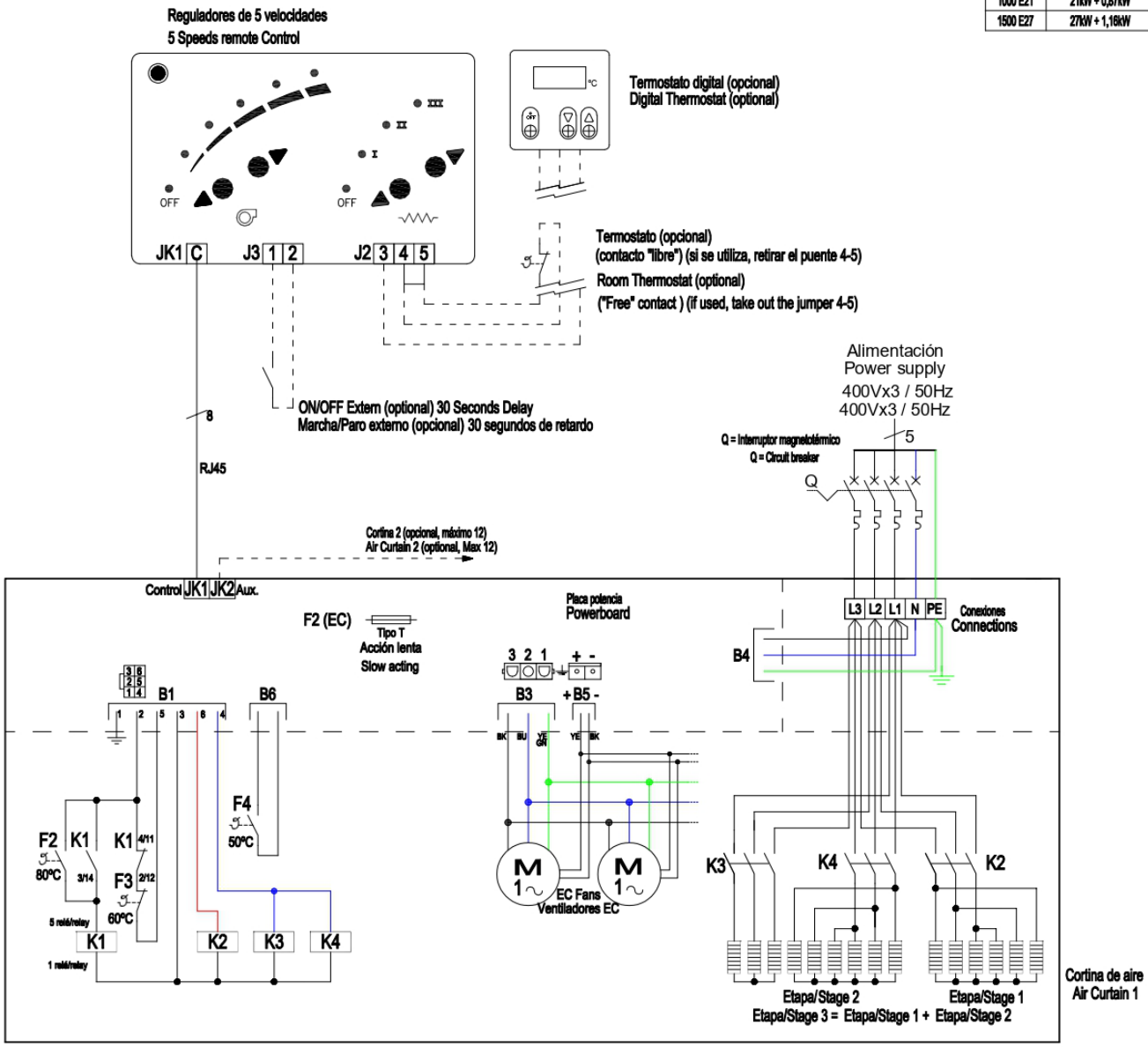
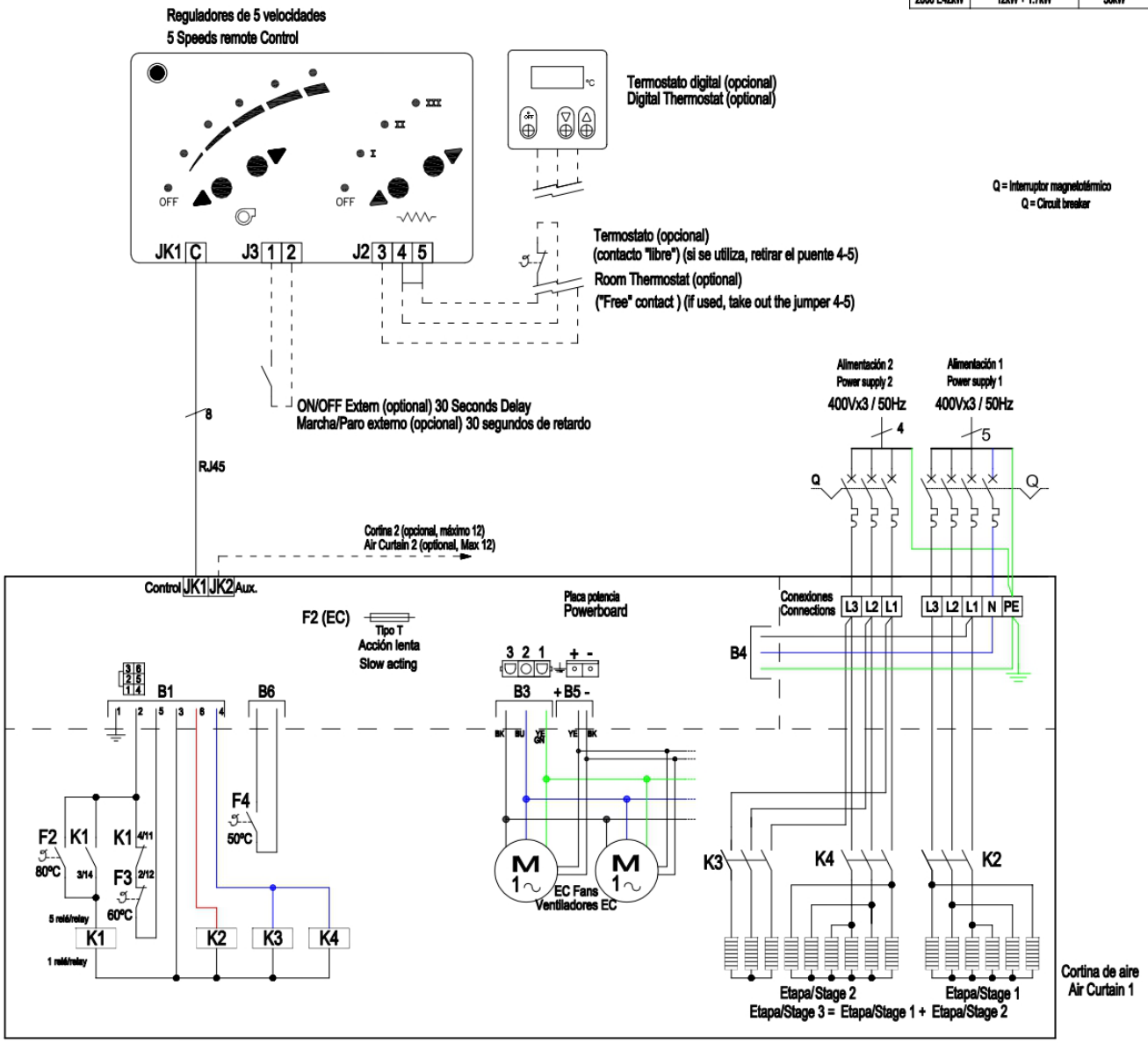
Air curtain Cortina	Power supply + fan Alimentación + ventilador	Number of Fans
1000 E21	21kW + 0,87kW	3
1500 E27	27kW + 1,16kW	4



ESQUEMAS ELÉCTRICOS CORTINA DE AIRE BB VENTILADOR EC
WIRING DIAGRAMS OF AIR CURTAIN BB EC FANS
BB ELÉCTRICA 400V~3 1000-1500
ELECTRICAL BB 400V~3 SINGLE POWER SUPPLY 1000-1500

Air curtain Cortina	Power supply 1 + fan Alimentación 1 + ventilador	Power supply 2 Alimentación 2	Number of Fans
2000 E42kW	12kW + 1.7kW	30kW	6



ESQUEMAS ELÉCTRICOS CORTINA DE AIRE BB VENTILADOR EC
WIRING DIAGRAMS OF AIR CURTAIN BB EC FANS
BB ELÉCTRICA 400V~3 2000
ELECTRICAL BB 400V~3 DOUBLE POWER SUPPLY 2000

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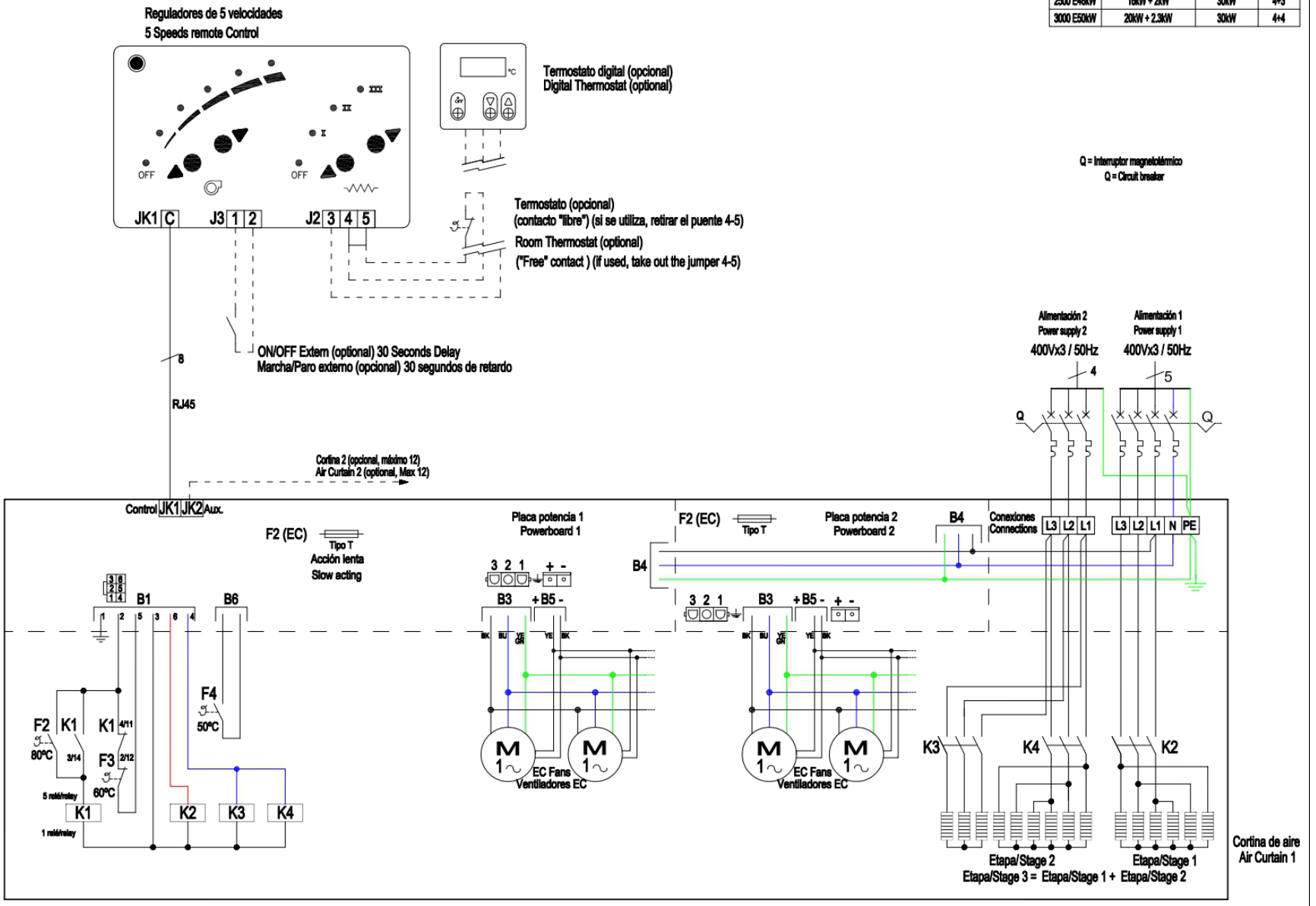
Air curtain Cortina	Power supply 1 + fan Alimentación 1 + ventilador	Power supply 2 Alimentación 2	Number of Fans
2500 E48kW	16kW + 2kW	30kW	4+3
3000 E50kW	20kW + 2.3kW	30kW	4+4



ESQUEMAS ELÉCTRICOS CORTINA DE AIRE BB VENTILADOR EC
WIRING DIAGRAMS OF AIR CURTAIN BB EC FANS
BB ELÉCTRICA 400V~3 2500 y 3000
ELECTRICAL BB 400V~3 DOUBLE POWER SUPPLY 2500 & 3000

WINDBOX BB

HIGH PRESSURE STANDARD AIR CURTAINS
FOR COMMERCIAL AND INDUSTRIAL DOORS

Technical Features

RAL 9016 standard

Other colors on request

Stainless steel

Range
Up to 7 m

Airflow / Length
3750 - 10720 m³/h
1 m to 3 m

Fans
Centrifugal
5-speed

Heating types
E : electrical 3 stages
P : water
A : unheated
DX : heat pump [*]

Heating capacity
E : 6 - 50 kW
P : 15,2 - 55,0 kW

Control
Plug&Play manual regulator
+ IR remote control
(Optional Clever Control)

Casing
Galvanised Steel [**]

Grille type
Micro-perforated
with prefilter function

Outlet lamellas
Aluminium, airfoil type
Adjustable 0-15° each side

[*] Consult separate DX catalogs
[**] Customizable dimensions on request

Commercial size air curtain with an equivalent power to an industrial unit. As all the standard range of Airtècnics air curtains, WINDBOX BB has an elegant and timeless design. A highly versatile air curtain provided with a wide variety of technical specifications, mounting options and customization, gathering all the latest innovations and developments.

This model works with the latest generation of double-inlet centrifugal high efficiency EC fans driven by an external rotor motor, with low noise level and very low consumption.

Includes Plug&Play control with 7m RJ45 cable and infrared remote control. Optionally can be regulated with Advanced Clever Control (programmable, automatic, intelligent, compatible with Modbus RTU for BMS).

UNHEATED

Model	Airflow	Ventilation power 230V~50Hz	Ventilation current 230V~50Hz	Noise level (5 m)	Weight
	m³/h	kW	A	dB (A)	kg
BB 1000 A	4020	0,873	3,87	66	38
BB 1500 A	5360	1,164	5,16	67	55
BB 2000 A	8040	1,746	7,74	68	77
BB 2500 A	9380	2,037	9,03	69	93
BB 3000 A	10720	2,328	10,32	70	110

ELECTRIC HEATED

Model	Airflow	Electrical heating capacity 400Vx3~50Hz (*)	Ventilation power 230V~50Hz	Ventilation current 230V~50Hz	Noise level (5 m)	Weight
	m³/h	kW	kW	A	dB(A)	kg
BB 1000 E	4020	6/15/21	0,873	3,87	66	49
BB 1500 E	5360	8/19/27	1,164	5,16	67	71
BB 2000 E	8040	12/30/42 (**)	1,746	7,74	68	98
BB 2500 E	9380	16/30/46 (**)	2,037	9,03	69	119
BB 3000 E	10720	20/30/50 (**)	2,328	10,32	70	141

(*) Under request other electrical heating power can be limited.

(**) 2 separated power supplies.

WATER HEATED

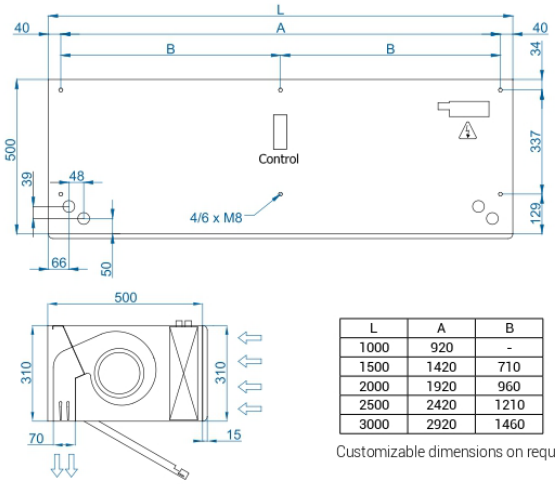
Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 230V~50Hz	Ventilation current 230V~50Hz	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	m³/h	kW	Pa	kW	Pa	kW	Pa	kW	A	dB(A)	kg
BB 1000 P	3750	18,21	15190	15,16	16190	16,48	12180	0,873	3,87	65	47
BB 1500 P	5000	23,52	1200	21,87	10990	24,15	15260	1,164	5,16	66	67
BB 2000 P	7500	36,57	3470	31,13	7350	35,04	12680	1,746	7,74	67	93
BB 2500 P	8750	45,78	6370	38,96	13420	42,12	11880	2,037	9,03	68	115
BB 3000 P	10000	55,04	10570	45,49	11230	49,27	10920	2,328	10,32	69	135

Water heated:
P86, P64 2x1", P54 1000-2000 2x1" and 2500-3000 2x1¼".
Connection pipes P86, P64 and P54 are male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

Selection program

Dimensions

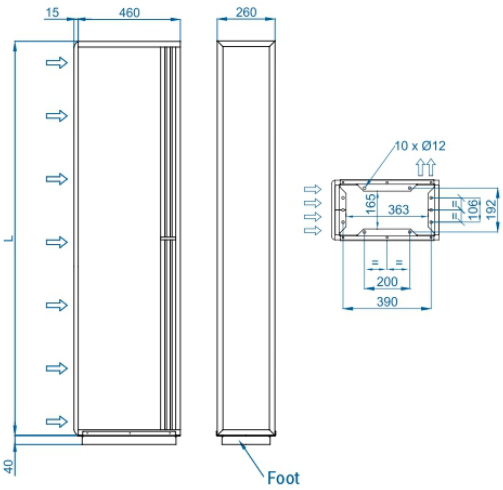
Horizontal installation



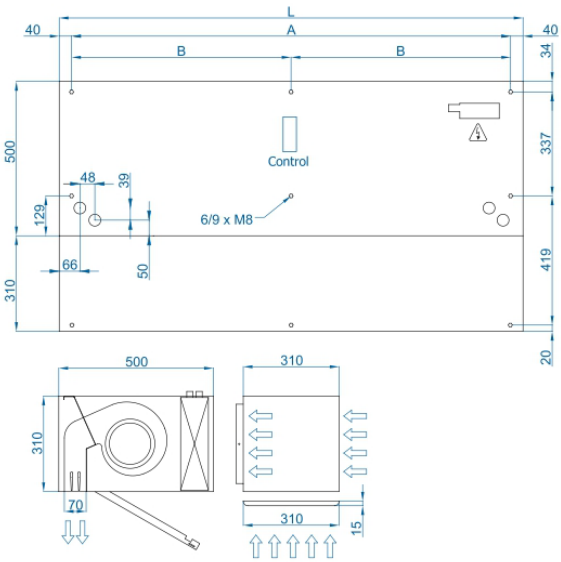
L	A	B
1000	920	-
1500	1420	710
2000	1920	960
2500	2420	1210
3000	2920	1460

Customizable dimensions on request.

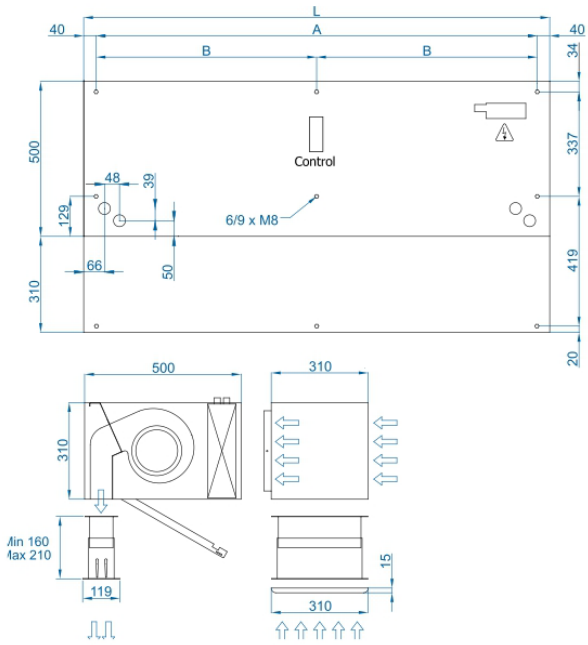
Vertical installation



Inside ceiling surface mounting



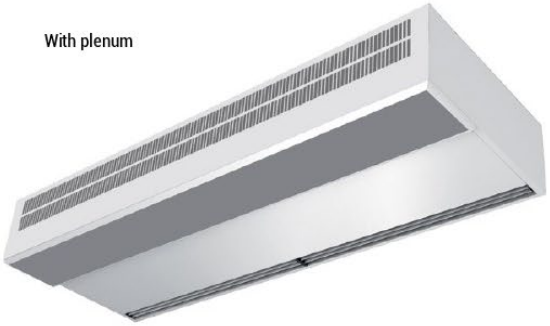
False ceiling invisible mounting



CAD drawings, BIM files, installation manuals and other documentation

CAD BIM

Installation Configurations


With plenum


With plenum and kits


With outlet kit


With inlet and outlet

Optional accessories

Supports and installation


Wall rail supports SPWR


Silentblock supports SPANG-SIL / SLB


Suspension cables SPCT


Foot support SPF-BB (Galv. / SS)


Joining kit SPJ-BB (Galv. / SS)


Flat inlet and outlet kits


Service tray between ID and OD

Control


IR Control
✔ Included


Basic Control
✔ Included


Clever Control Kit


RJ45 Cable
✔ Included


Hand-Auto CH-5HW-NE


Ambient thermostat T6360


Interface kit IN-NE-II

Filters


Removable prefilter G2

Sensors and valves


Magnetic door contact MAG-DC


Mechanical door contact MEC-DC


External Temperature Sensor (Clever Control)


Solenoid valve V-S


Valve 3 ways V-T


Proportional valve V-ACT

Condensation


Anti-freezing sensor AFS-INS


Condensation tray

MAINTENANCE INSTRUCTIONS

	***For safety, before any cleaning, disconnect power supply using the controller.***
	***It is forbidden to open the service door (risk of electrical discharge and being trapped in fans).*** ***Service and maintenance should be done only by introduced and qualified workers.***
	***Do not use water or steam for cleaning the internal parts and components of the air curtain.***

External cleaning

Air curtains don't need any kind of maintenance except from the cleaning of the casing and the inlet grille.
It is recommended to weekly clean the inlet grille. It's important to make sure that the air curtain is OFF, otherwise the dust mixed with a wet cloth would create a kind of paste that will damage the fan rotor when it sucks the air.

Annual cleaning of the discharge area (outlet).

The casing of the air curtain should be cleaned with a wet cloth and non-aggressive detergent. Do not use caustic soap or acids.

The inlet grille prevents the settling of dust and strange objects in the internal elements. It is recommended to check periodically that the inlet grille is free of any object that could interfere the air entrance (plastic bags, papers, etc.).

In case of a micro drilled inlet grille (it has filter functions to prevent the entrance of dust to the internal elements) use a vacuum cleaner with a soft brush in order to avoid any damages in the micro drilled grille. We recommend cleaning the grille every week (depending on the amount of the incoming air dust).

Internal cleaning

In models with micro drilled grille is recommended to clean the inside of the unit with a vacuum at least once every two years (*), best before the winter season, with qualified staff.

(*) These periods are indicative, depending on the ambient conditions of every installation.
In places with a high number of particles in suspension is desirable to increase the frequency of the internal cleaning (including the city centers, near construction sites, etc.).

REPAIRS AND REPLACEMENTS

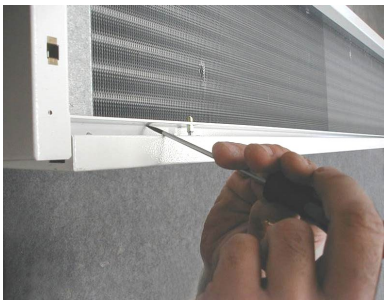
Installation and electrical connections must be done by qualified workers and following these instructions.
Before any repairs are undertaken, please:

- ***Inform people that there is work in progress.***
- ***Disconnect the power supply and protect the thermal magnet (so nobody can restart it accidentally).***
- ***Make sure there is no tension in the air curtain.***
- ***Make sure the fans are stopped.***
- ***Use only original spare parts.***

To **open the service door,** follow these steps:

1.- Insert a flat screwdriver between the casing and the grille and push the grill out. The grille is closed by pressure through pivots. It has a safety cable to avoid accidental falls.


2.- **OPTIONAL:** Remove the security screw of the service door.




3.- Insert a screwdriver and press down next to the pivots to open de service door.
In case of an air curtain with **plenum or inlet/outlet kits** the lever must be done from the side of the door where there is an oblong hole, to make it easier the entrance of a flat screwdriver.

Fan replacement

Before replacing the fan, inform people that there is work in progress, stop the air curtain through the controller and disconnect main supply. Make sure that the unit is without tension and the fans are stationary. Unplug the fan from the cable tree. Remove the fan by loosening the fixing screws and assemble the new fan following the process in reverse order.

Fuse and PCB replacement (only electrical heated)

Before the replacement, inform people that there is work in progress.
Disconnect main supply, make sure that the unit is without tension and that the fans are stationary.

Fuse replacement: Open the service door and remove the fuse of the fuse holder by hand or pulling with the help of a screwdriver pressing to the plate and turning in under clockwise, then replace it.

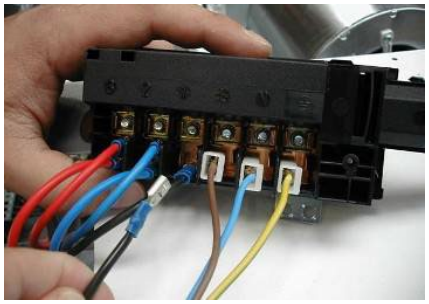
PCB replacement: Open the service door (service panel) and simply unscrew the power plate from the inside of the air curtain to remove it and make the necessary repairs.

Before the replacement, inform people that there is work in progress, disconnect main supply, and make sure that the unit is without tension and that the fans are stopped. Before proceeding to unfasten the heater fixing screws, we must:

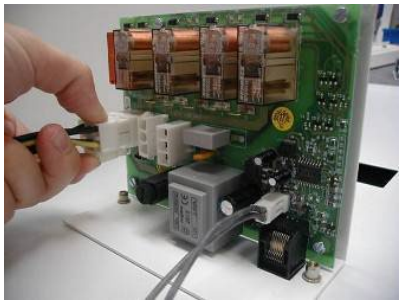
Water Coils: Close the shut-off water valves of the building water circuit to the air curtain (supply and return). Open the service door and empty the water from the coil simply removing the draining screw placed in the bottom of the entrance manifold as shown in the photograph.

Electrical Heaters: Disconnect the power supply from the electrical element.

Remove the screw-earth of the connection box and disassemble from the equipment.



Unplug the cables to 1, 2, 3 in the connection box.



Unplug the two connectors of plate pressing the fluke.

When we have the coil or heater ready, we proceed to remove the fixation screws to disassemble the coil or heater.

Fixation points of coils and heaters: Angle closes door and interior angles.

Finally, with your hands protected, remove the electrical heater carefully in the direction showed in the photo.

To assemble the new heater following the same process in reverse order.

FAILURES AND SOLUTIONS

More than 95% of the complaints are submitted during the start of operation of the equipment and are due to installations errors.

More than 90% of the failures are solved only by **checking the connections.** Following the three following points, we can make sure that the installation is correct:

A) RJ45 cable manipulated: The cable that connects the controller to the air curtains is 8 lines crossed RJ45 cable. **If manipulated (cut or removed the connector) and incorrectly joined (reverse way) the air curtain will not work well.** Moreover, it can damage the electronics. To solve the problem just turn the connector of the cable (see connection diagram in the first page).

B) Wrong connection of the RJ45 cable. Verify whether the connector position is the correct, between the "control" and "auxiliary", according to the installation diagram (particularly if there are several air curtains with a single controller).

C) Wrong current supply/input. The air curtain input depends on the type of current available and also on the heating type of the unit. Connect the unit according to the connection diagrams of the first page.

More common failures and solutions		
Effect	Problems	Solutions
All lights of the controller are OFF	Is the RJ45 cable the original (not manipulated), with no enlargements either shortenings?	Change the cable or connect it again correctly.
	Does the current reach the connection box?	Connect correctly the terminals of the junction box: Between L and N there must be 230V and if the air curtain goes with three-phase electrical element, there must be 400V among terminals L1, L2 and L3.
	Is the controller connected to the air curtain, to the connector "Control" of the PCBoard?	Connect the cable from the controller to the "Control", never to the "Aux".
	Is the fuse of the PCBoard in good conditions?	Check the fuse and replace it in case it is necessary (type T, slow action).
Some lights of the controller are Flashing.	The green LED of the maximum speed flashes when we stop the air curtain after having been operating with heating.	It is not a failure, but a safety mechanism. The air curtain turns on by itself to the maximum speed to get cold and protect its components. When it decreases from the safety temperature, it will stop.
	Some speed or heating lights are flashing when the air curtain is working.	It is a protection mechanism of the air curtain so that the internal parts of the air curtain do not suffer damages. Situations on which the problem continuously recurs and the way to solve it: 1. Inlet grille blocked (objects, dirtiness…) the ambient temperature inside the equipment can increase a lot if the air cannot circulate. Clean the grille. 2. Small room: we recommend installing a thermostat to control the heating power so the protection device does not activate. 3. In case that the ambient temperature is already high, we recommend to lower the power heating or install a thermostat. 4. Inlet air already warm, that comes from another heating equipment beyond the air curtain. Move the air curtain away, place a thermostat in the inlet part of the curtain or lower the heating power. 5. Any motor does not work: call the technical service.
The heating does not work	Does the three-phase current reach the connections box?	Check installation.
The speed and/or the heat changes continuously with no apparent reason but the lights of the controller are not flashing.	Probably the RJ45 cable is near interference sources, transmitters, cable plates, particularly those that supply current to Motors, etc.	Pass the cable the furthest possible away from interference sources, particularly when long distances or use a screened table.

DECLARATION OF CONFORMITY

Declaration CE of conformity / Declaración CE de conformidad

Manufacturer / *Fabricante*
Motors i Ventiladors S.L. (AIRTÈCNICS)
Conca de Barberà 6, Pol. Ind. Pla de la Bruguera
08211 Castellar del Vallès (Barcelona) Spain

We declare, under our sole responsibility, that the product
Declaramos, bajo nuestra única responsabilidad, que el producto

Air Curtains
Cortinas de aire

with models / *con los modelos*

Minibel, Optima, Recessed Optima, Optima Wireless, Recessed Optima Wireless, Optima K, Optima Switch, Recessed Optima Switch, Top, Recessed Compact, Aris, Windbox, Recessed Windbox, Smart, Dam, Recessed Dam, Deco, Kool, Rund, Invisair, Rotowind, Variwind, Zen, Max, Maxwell, Compact Fly, Fly K, Fly KL-KXL, Fly KBB, Windbox BB, Recessed Windbox BB, Zen BB, Invisair BB, Kool BB, Rotowind BB, Zen L-XL, Windbox L-XL, Duojet, Triojet System

is/are developed, designed and manufactured in accordance with the following directive(s)
ha(n) sido desarrollado(s), diseñado(s) y fabricado(s) de acuerdo con la(s) siguiente(s) directiva(s)

Low Voltage Directive 2014/35/EU
Directiva Baja Tensión 2014/35/UE

Electromagnetic Compatibility Directive 2014/30/EU
Directiva Compatibilidad Electromagnética 2014/30/UE

Restriction Certain Hazardous Substances Directive 2011/65/EU (RoHS)
Directiva Restricción Substancias Peligrosas 2011/65/UE

Eco-design Energy-related Products Directive 2009/125/EC
Directiva Diseño Ecológico Productos Con Energía 2009/125/CE

applying the following harmonized standards in particular
aplicando las siguientes normas harmonizadas en particular

LVD: **EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A:14:2019 + A2:2019**
EN 60335-2-30:2009 + A11:2012 + A1:2020 + A12:2020

EMC: **EN 61000-3-11:2000**
EN 61000-3-12:2011
EN 55014-1:2017 + A11:2020
EN 55014-2:2015
EN 62233:2008 + AC:2008

RoHS: **EN 50581:2012**

Date / *Fecha* **04/03/2024**
Name / *Nombre* **Jordi Hierro**
Position / *Cargo* **Technical Manager / *Director Técnico***

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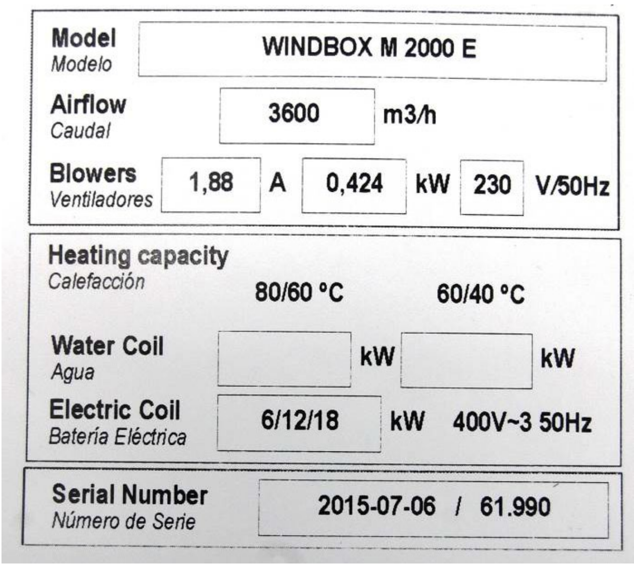

Air curtain identification

Each air curtain is identified by a unique serial number printed in a label located inside the door service. There is also indicated the model and their technical characteristics (flow, fans technical characteristics and power heating).

It is indispensable to have this number to facilitate possible replacements or technical information of the air curtain in question.

If you detect some error in this manual, we'll be pleased to receive your *feedback*, it helps us to improve even more.
Airtècnics reserves the right to modify some of the specifications in this manual.

GUARANTEE

Your air curtain is guaranteed for a period of one year from the date of purchase. We will adjust, repair or replace at our discretion from our warehouse any defect, system failure or part found to be defective. The assembly cost out of our warehouse is at buyer expense. The products that, in our eyes, have been inadequately used, incorrectly manipulated, improperly installed, connected to different nominal tensions, modified, repaired by non-authorized workers or that have suffered damages during transport are totally excluded from the guarantee.

To validate the guarantee it should be correctly filled and enclosed with the invoice that vouches for the buying date. If it is manipulated, it will lose all validity.

It is the buyer's responsibility to take the necessary safety measures because in case of a failure or mistake in one of one our products, no damages to third parties, sets or installations will occur.

✂ -

Guarantee draft

Air curtains data:

Model: .... Series number: ....

Invoice date: .... Invoice number: ....

Buyer data:

Name: ....

Address: ....

Country: ………………………… Phone: .... Fax: ....

Seller data:

Name: ....

Address: ....

Country: ………………………… Phone: .... Fax: ....

<u>Buyer signature and stamp</u> ***<u>Seller signature and stamp</u>***