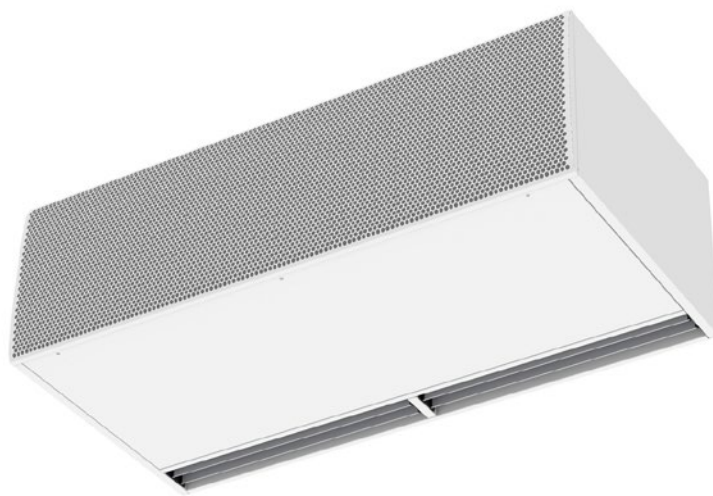


Air curtains: Windbox L, XL



INSTALLATION, OPERATION AND MAINTENANCE MANUAL



*Please, read these instructions carefully before attempting installation
Deliver this manual to the final user.*

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.

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CAUTIONS

IMPORTANT INSTRUCTIONS

Please before installing or using the air curtain, read carefully all instructions and considerations to reduce the risk of fire, electric shock, injury to people or damage to the air curtain itself. For that is recommended to follow the next basic precautions:

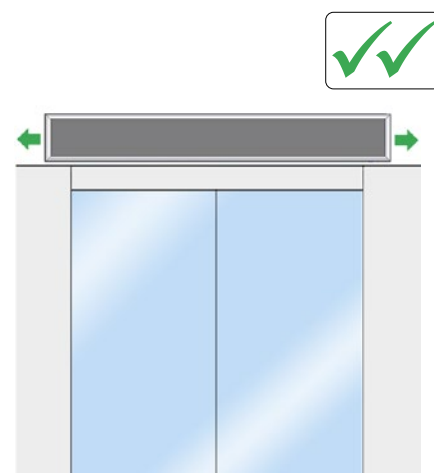
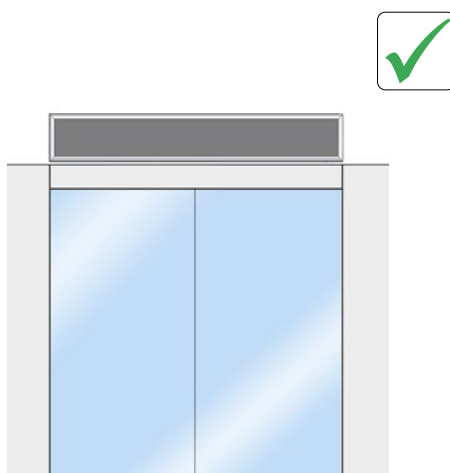
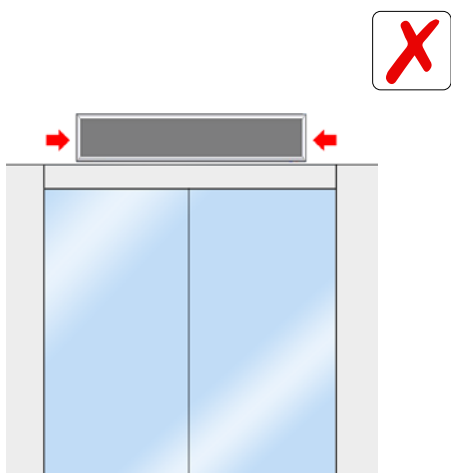
1. Use the air curtain only in the manner intended by the manufacturer and described in this manual. Any other use not recommended may increase the risks mentioned before.
2. Installation work and electrical wiring must be done by a qualified technician. Be also careful to not damage electrical wiring or hidden utilities when cutting or drilling into a wall or ceiling.
3. The air curtain is a heavy appliance and for that matter it must be elevated with proper lifting tools to prevent injuries to the people who install it.
4. Before servicing or cleaning the unit, switch power off at service pannel and lock the service disconnecting the means to prevent being switched on accidentally. When the service protection elements cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
5. It's HIGHLY recommended to do a periodical maintenance as stated in this manual section following the instructions given to clean the inlet grille, visual inspect each part and prevent any possible malfunction or issue of the air curtain before it happens.
6. Do not operate any air curtain after it malfunctions. Disconnect power at service panel and have air curtain inspected by a qualified technician before reusing.
7. To disconnect the air curtain, turn the control "OFF", wait 10 minutes for the device to stop completely and then turn off power supply to the air curtain.
8. The air curtains with heating are hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes, etc at least 3cm (1 inch) from the top, back, front, sides and at least 180cm (6 feet) from the discharge of the air curtain.
9. To prevent a fire, do not block the air intake or discharge of the air curtain in any manner. Also prevent any foreign objects to enter any ventilation or exhaust opening as it may cause an electric shock, fire or damage the air curtain.
10. The air curtain has hot and may have arcing or sparking parts inside. Do not use it in areas where gasoline, paint or flammable vapors or liquids are used or stored.
11. Extreme caution is necessary when any air curtain is used by or near children, elderly or invalids, and whenever the air curtain is left operating unattended.
12. Some air curtain may include a visual alarm to warn that parts of the air curtain are getting excessively hot. If the overheating alarm is active because inside the temperature is rising too much, then the air curtain protects itself changing the functioning by increasing ventilation speeds and/or reducing heating stages. Check Troubleshooting part in this manual for more info about how to proceed.
13. Air curtains must not be installed outdoors unless is intended for outdoor use. If so, the air curtain should be always protected against rain and it's recommended a special protection to prevent corrosion and other issues caused by the environment (optional).
14. In case of vertical air curtains, these MUST be installed in a leveled floor for optimal performance and prevention of accidents.
15. The optimal working temperature of the fans is between 5°C and 40°C (41°F to 104°F) to protect the electrical components and at most should not exceed 50°C (122°F).

KEEP THESE INSTRUCTIONS

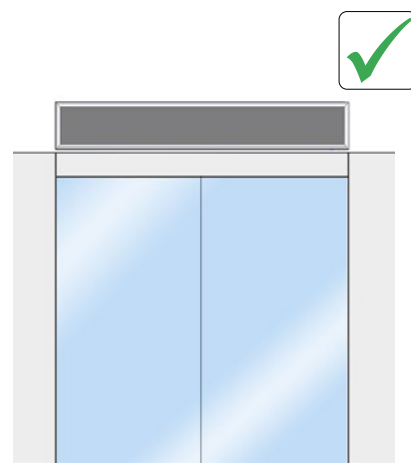
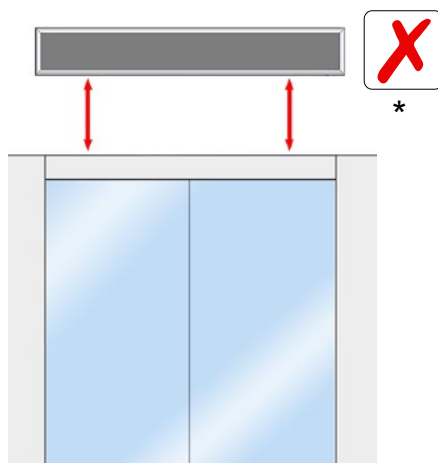
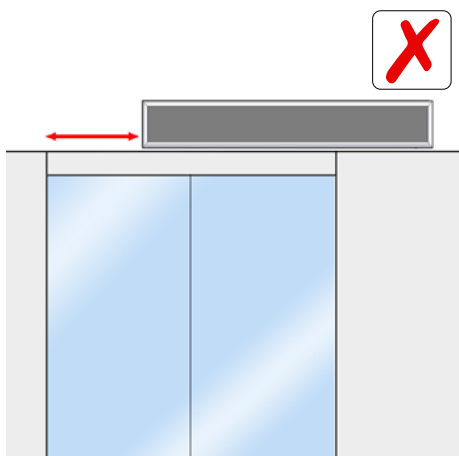
INSTALLATION

Tips and recommendations for a good installation

LENGTH

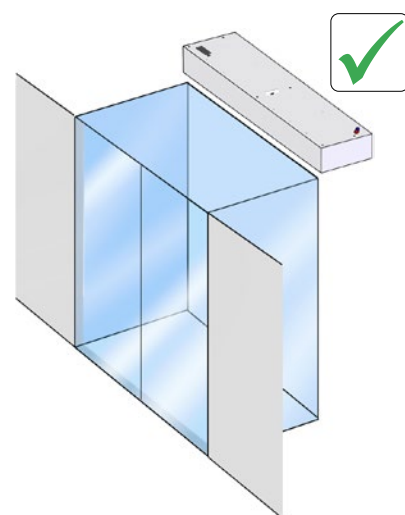
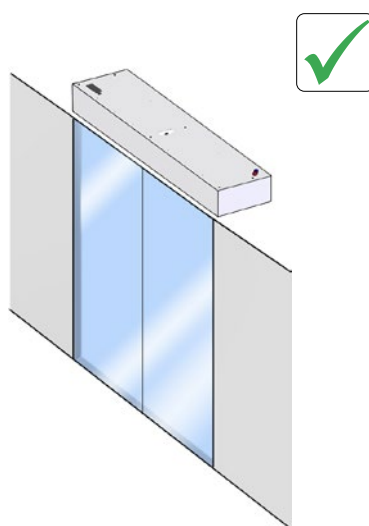
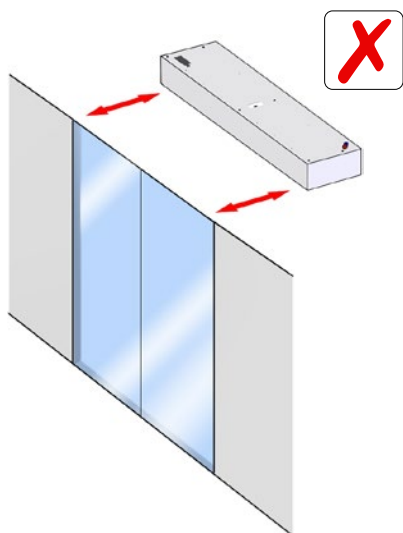


CENTERED / HEIGHT

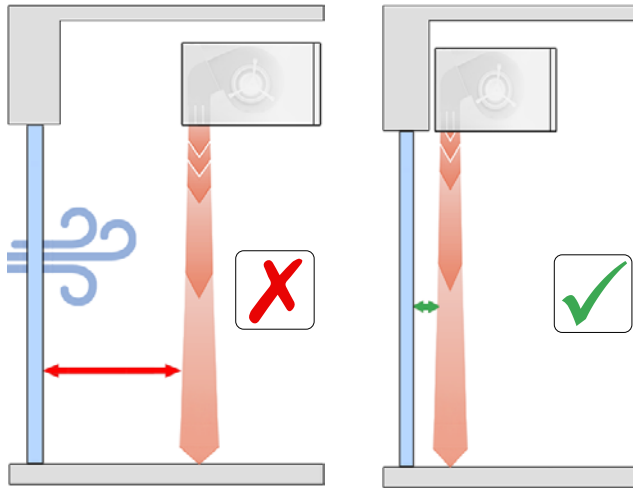


(*) Unless it has been designed to be installed at that height.

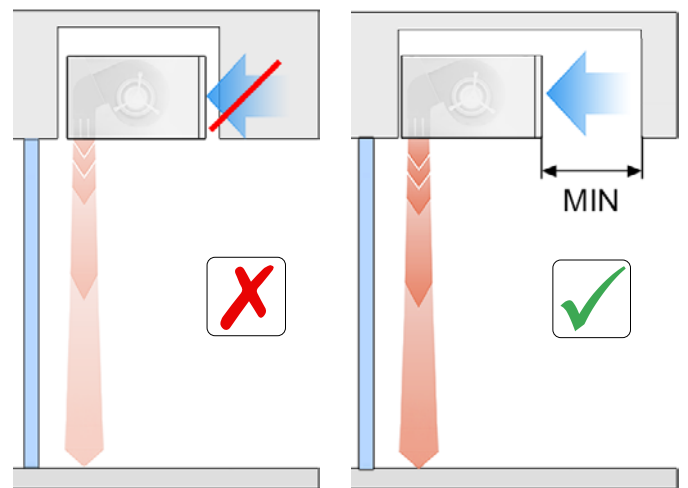
DOOR DISTANCE



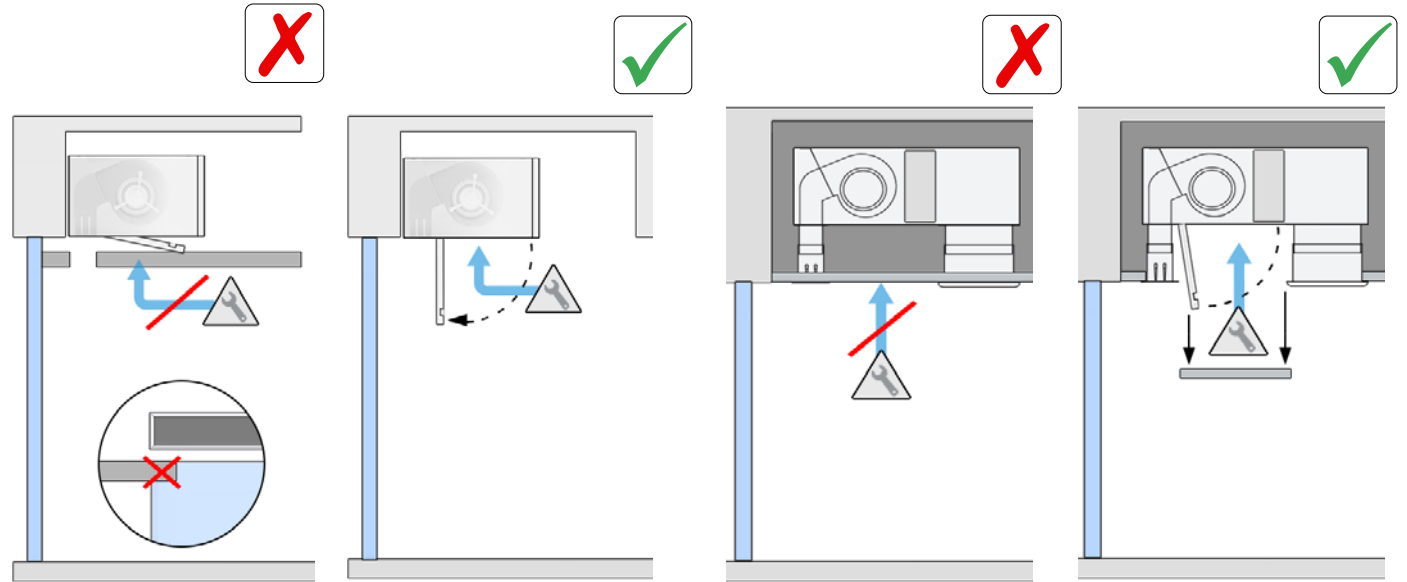
AIR DISCHARGE



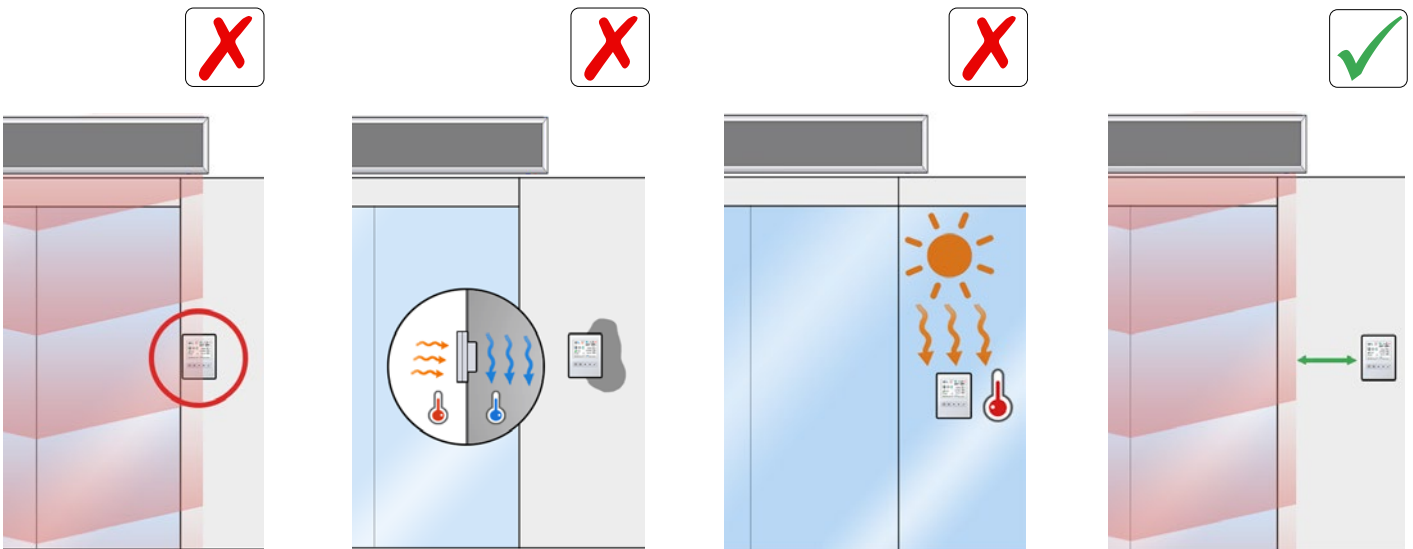
AIR ASPIRATION






MAINTENANCE ACCESSIBILITY

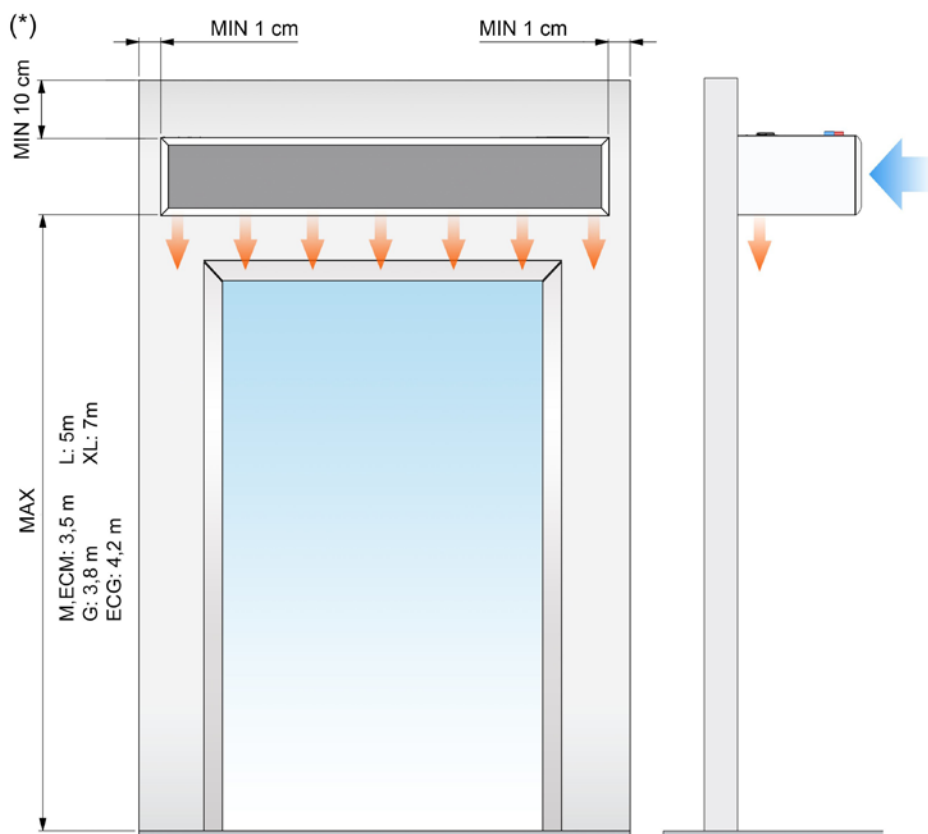


CONTROL



Windbox L, XL model

	<p>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.</p>
	<p>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.</p>
	<p>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.</p>

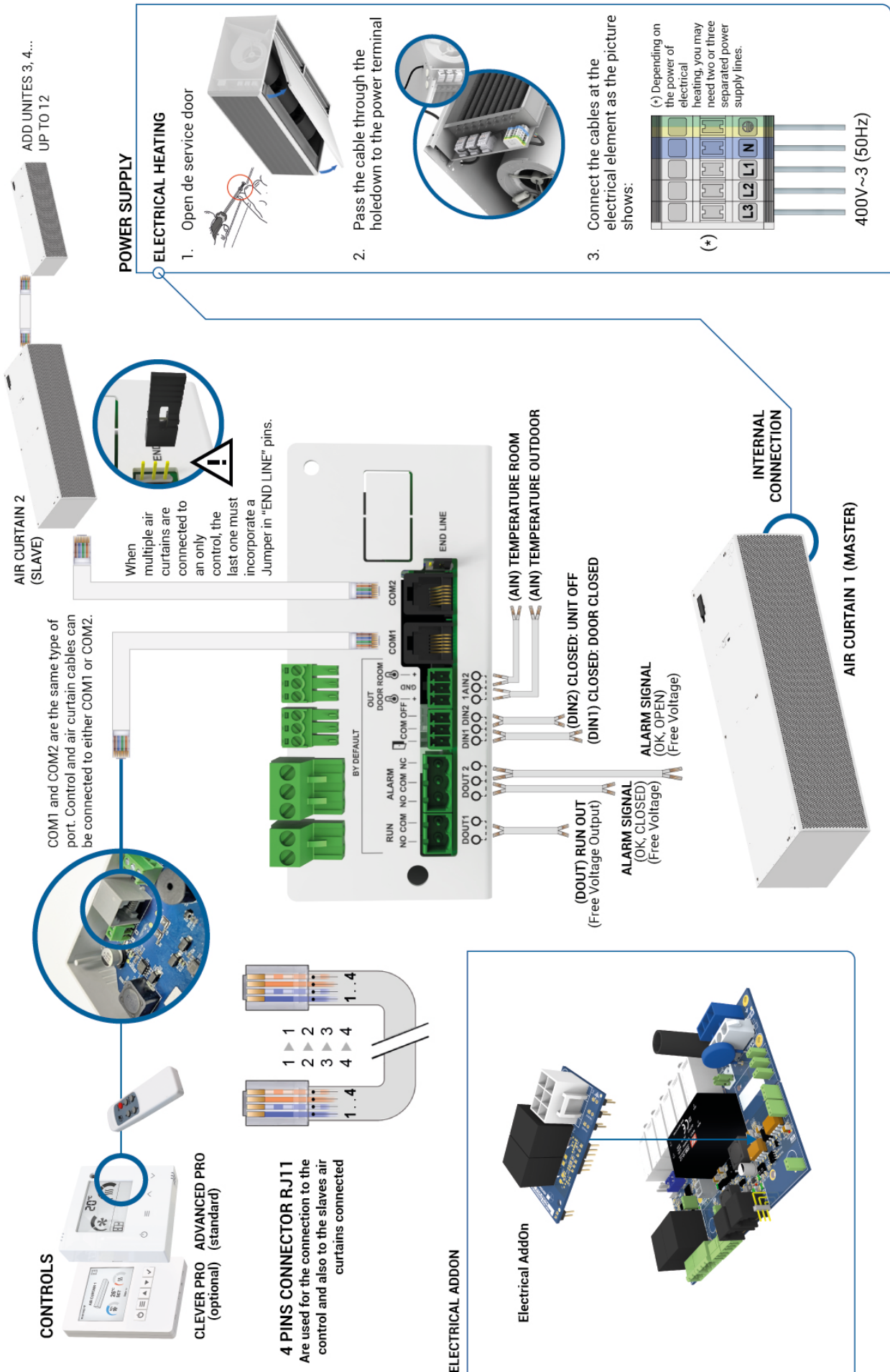


H MAX. Maximum recommended range, MIN. Recommended minimum distance

(*) Standard equipment. Upon request, this distance can be reduced to 10 mm when the connections are located inside the equipment and the tube outlet is lateral.

The minimum recommended distance between the suction grille and any obstacle is 200 mm.

Windbox L, XL Electrical



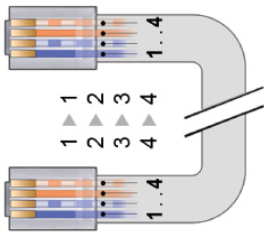
CONTROLS



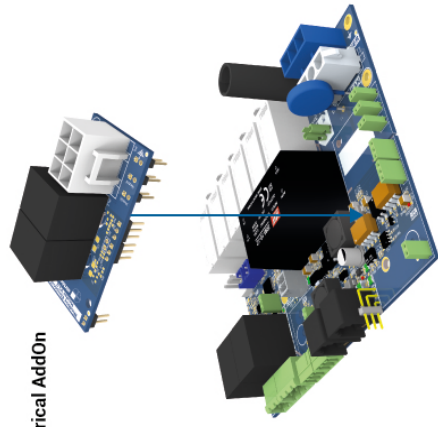
CLEVER PRO ADVANCED PRO (optional) (standard)

4 PINS CONNECTOR RJ11

Are used for the connection to the control and also to the slaves air curtains connected



ELECTRICAL ADDON



Electrical AddOn

Power supply

To connect the device to power, there is a black junction box at the top of the exterior of the air curtain.



For air curtains without heating or with water heating, the air curtain must only be connected to a 230V single-phase current for the operation of the fans.

In the case of an air curtain with an electric battery, connect the 400Vx3 three-phase power supply from the electric battery. The single-phase current is only connected to one phase of the three-phase lines, plus a connection to the neutral. Recommended maximum number of curtains connected to the same differential:

Modelo	Diferencial 30mA	Diferencial 300mA
L	20 uds.	20 uds.
XL	20 uds.	20 uds.

Each installation must be reviewed by a specialist to ensure that there is no incompatibility with the selected differential and the connected curtains.

Control

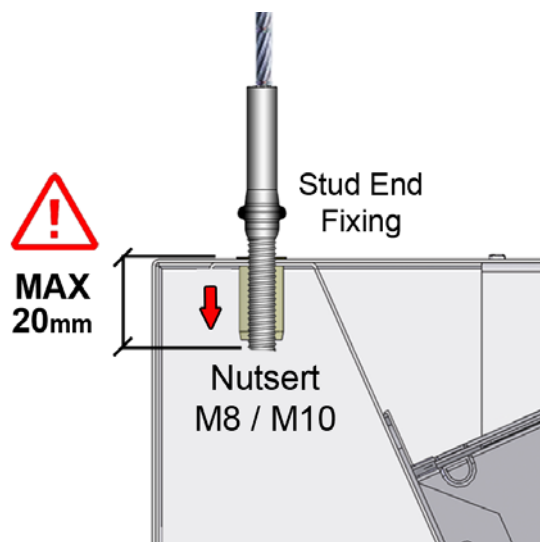
To connect the control to the air curtain, there are terminals (COM1 or COM2) located on the outside top of the air curtain. It is not necessary to open the air curtain to connect it, except for internal connections. Use the 7 meter RJ11 cable supplied with the equipment and connect one side to the control and the other to COM1 or COM2 in the air curtain.



Fixings

The curtain has several external fastening points depending on the weight and length (see situation in the model characteristics section).

Generally, air curtains are installed horizontally. For vertical installation, use the feet kit (see accessories section). The anchor must be sized according to the weights of each curtain indicated on the technical data page. The installation can be done using threaded rods, tensioners or other supports (see available supports in the accessories section).

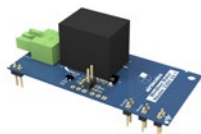


Air Curtain

Water heating

The air curtains with water heating have a 220-240Vx1 output to optionally connect an ON/OFF valve (it opens or closes the water inlet to the heat exchanger). It also includes either 24V or 0-10V output for proportional valve.

SOLENOID VALVE (*)



MODULATING VALVE (**)



This output can also be used for other low amperage electrical appliances (1,5A).

(*) By default (**) Under request, without price increase

Recommendations:

- Close the hot water flow (valve) to avoid overheating of the motors while the equipment is off. Optionally, Airtècnics offers solenoid and modulating valves.
- In the installation of the building, two shut-off valves (in and out) should be provided to be able to disassemble the equipment without problems.
- Mount a bleeding valve at the highest point of the heating section.

Antifreezing:

All the water heated air curtains include an antifreezing function. When room temperature is below 5°C and the valve is closed, the air curtain stops the ventilation and opens the valve to enable the water heating.

The water coils have a drain screw in the collector area to empty the water in case of maintenance (see repairs and replacements sections).

Electric heating

The electric battery has up to 15 resistances in the form of a bar that, combined with each other, provide 3 stages of heating. Control is carried out by three PRBEO or Contactors depending on the heating power and the fan range.

All the batteries are electrically and electronically protected against overheating (see section “Operating instructions”).

Electric controllers include an external thermostat to control heating based on temperature.

During the first uses, the electric battery can give off some odor that disappears in a few days.



According to battery power, the regulation is carried out by:

Range	Coil heating power (kW)	Regulation type
L	19 / 25 / 30,5 / 37,5 / 42 / 50 / 60 / 70	CONTACTORS
XL	25 / 35 / 37,5 / 50 / 52,5 / 60 / 70 / 80	CONTACTORS

TRANSPORTATION AND STORAGE



Warning! Heavy load.
Do not stand under the suspended load during transportation or assembly.

Store in a dry place protected from the environment. If the package is opened, cover the curtain to protect it from the dust. Do not step on or place heavy loads on it to avoid damage to the material. Storage temperature between -20 °C and +40 °C.

When transporting the material, you must ensure that it is not damaged by the forklift. (possible penetration of the fork in the packaging). Observe the instructions on the packaging for correct manipulation of the product.



OPERATING INSTRUCTIONS



For safety, the air curtains must never be stopped by disconnecting the current, always do it through the controller. If the power is turned off to turn off the shade, or within ten minutes of turning it off with the controller, internal components may be damaged.

LCD Control ADVANCED PRO

The **ADVANCED PRO** is a versatile Plug&Play air curtain control with communication via a standard 4-way RJ11 cable.

Compatible with all air curtain models:

- 2 and 5 ventilation speed
- Air only, heating with water coil, electric and heat pump.

Once connected, it will detect the model of the air curtain and configure itself automatically (number of speeds and type of heating).

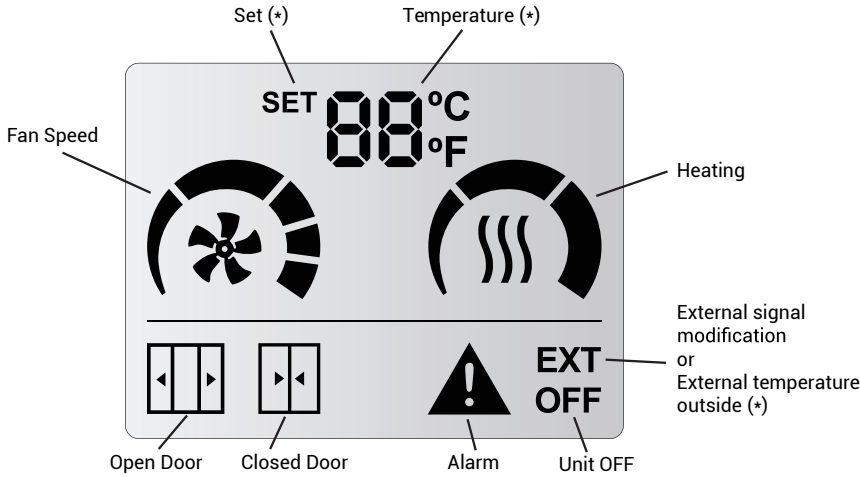
The **ADVANCED PRO RJ11** control allows the selection of different speeds and heating stages for door open and door closed.

In addition, it limits the heating based on the set temperature according to the room temperature (optionally also with the outside temperature) and the door status.

A 'Boost' function is available when the door is open, which increases the heating to ensure comfort.

- Backlight LCD display indicates fan speed, heating stage, set, ambient and outdoor temperatures (if an additional sensor is installed outside the building), door status, alarms and errors, and external signals (EXT).
- Inbuild room thermostat to turn ON/OFF or modulate the heating according to set temperature.
- Ready for the installation of a potential-free door contact. This can be used to set one speed and heating stage for open door and another for closed door.
- It has 3 digital inputs with different functions depending on the air curtain model connected (OFF outside, OFF heating, fire alarm, etc.).
- Maximum speed and heating settings for open door and closed door, boost mode, memory, etc.

Screen and Button Layout:



Room	
SET	
External (optional)	
Discharge	
Inlet (optional)	

Button Layout:



- ON/OFF (circle with line) allows to return to previous screen in Menus and starts/stops the air curtain.
- Use the arrows to set the temperature when electrical/water.
- User Menu to configure (3 lines):
 - Door open and door close ventilation speed.
 - Door open and door close heating stage.
 - Set temperature when electrical/water.

User Functioning:

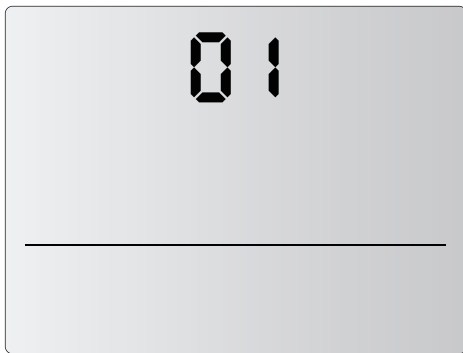
The display will know what functional limits exists and will only show the parameters that the user can modify.

- **Temperature SET:** the desired temperature can be set between 10°C and 35°C. Below 10°C and above 35°C, the user can select “no” and the heating will not be limited by temperature (thermostat mode deactivated).
- **Fan Speed:** user can select one fan speed for open and another for closed door. If the speed is set to 0 then the unit will be off.
 - **Slave DX (P2):** Only one speed can be selected when the heat pump is running.
 - **Interface Slave (P0):** The speeds are selected via the control of the heat pump brand.
- **Heating:** it depends on the air curtain model:
 - **Only Air:** It has no heating.
 - **Electrical heated:** The user can select the heating stage based on the configured ventilation speed and the door’s status.
 - **Water heated (ON/OFF):** The user can select the valve’s on or off state (optional), depending on the configured ventilation speed and the door’s status.
 - **Modulating heating:** The user can select the heating stage based on the configured ventilation speed and the door’s status.

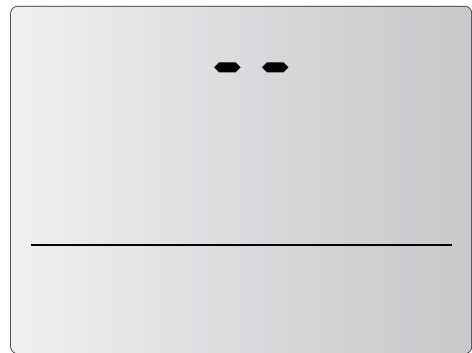
Device Initialization

When the control is powered, the display will show the firmware version and subversion, the input/output program it is working on and how many PCBs are connected to the control.

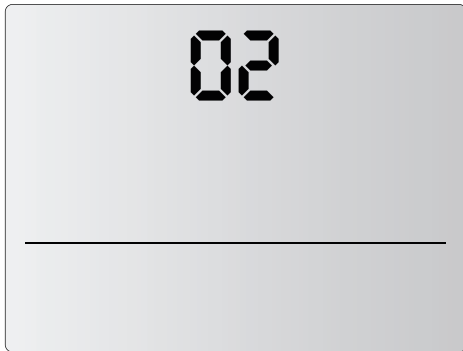
Example: Displays show with a V01.02 version, a P1 configuration of inputs/outputs and 2 PCBs connected.



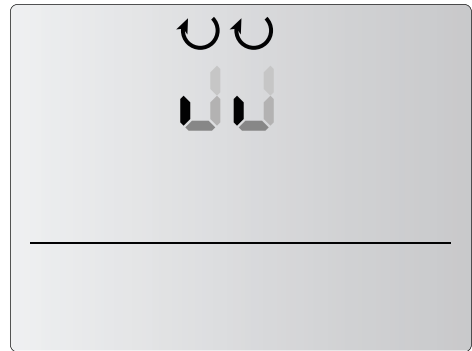
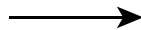
ADVANCED PRO version: 01



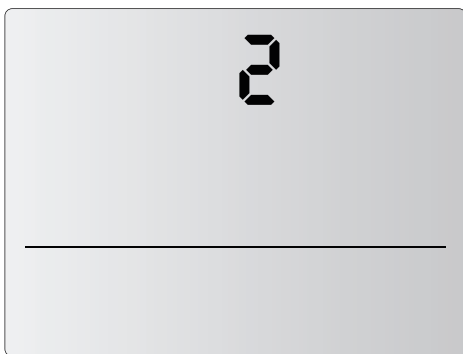
Space between version and subversion.



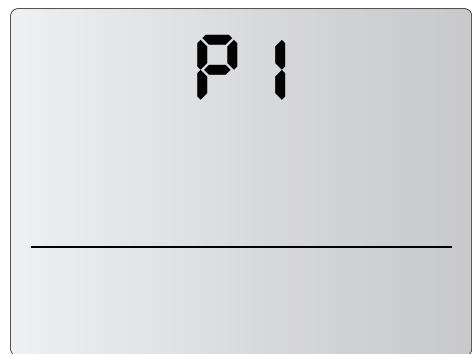
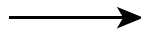
ADVANCED PRO subversion: 02



Scanning units.



2 units connected to the control
(last number shown during initialization)

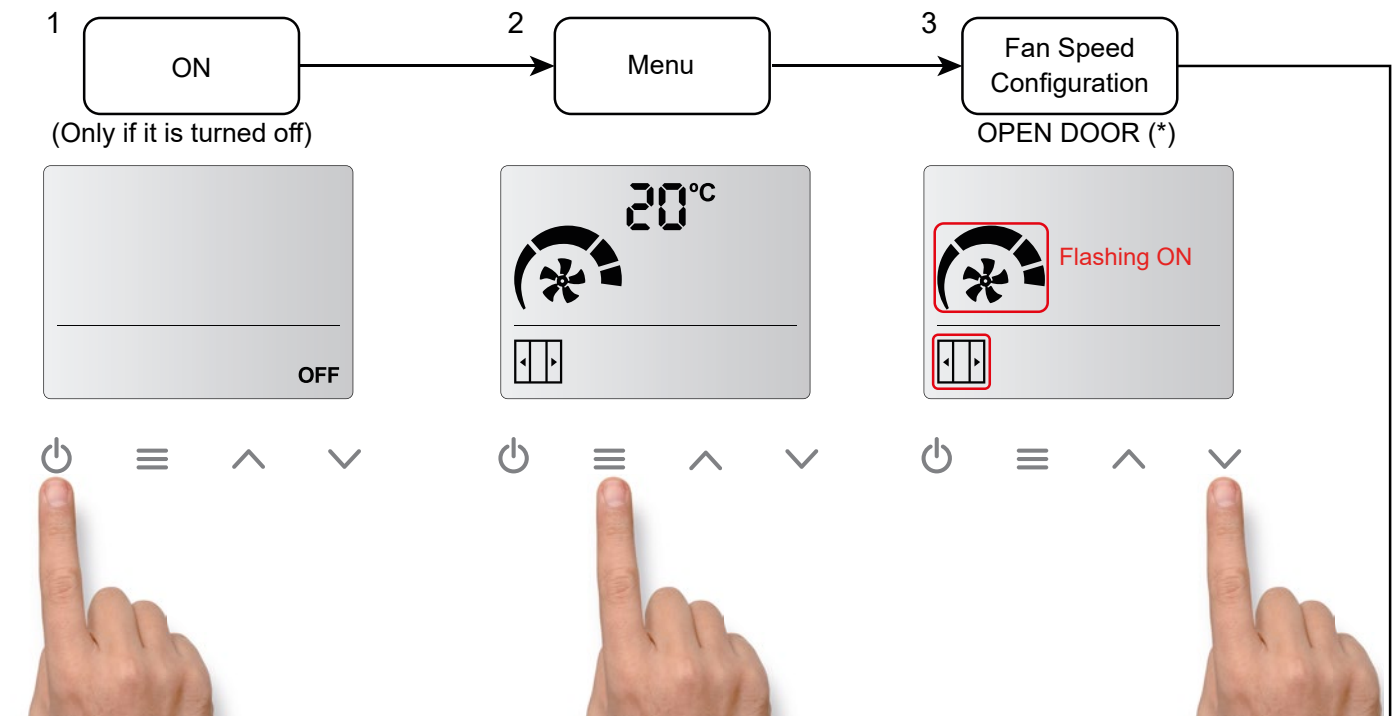


Unit Working in P1.

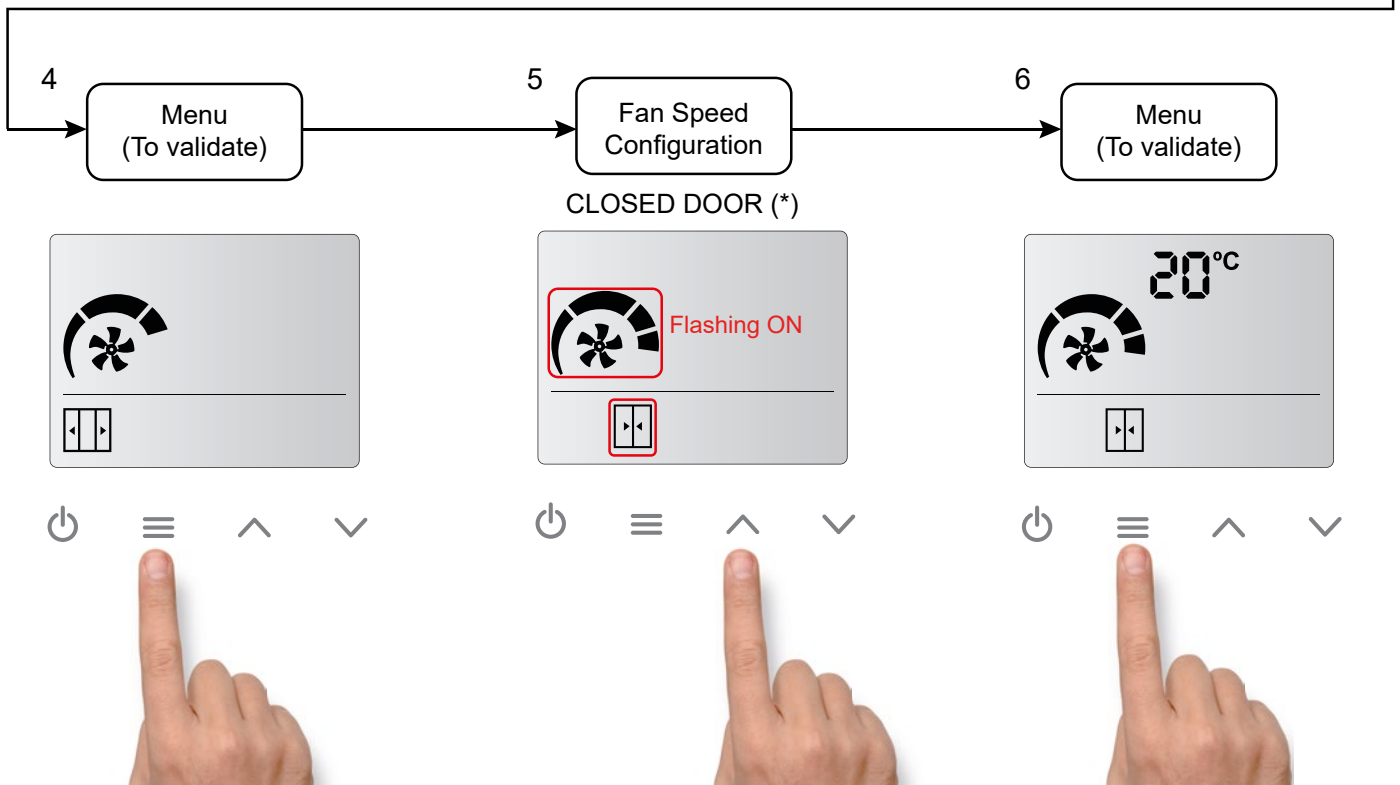
LCD User Menu Flow

Once the control has been initialised, the user can select the ventilation speeds and heating stages at which the air curtain is wanted to operate. To do this, the user may follow the diagram below:

Menu Flow for Only Air (Non-heated) models:



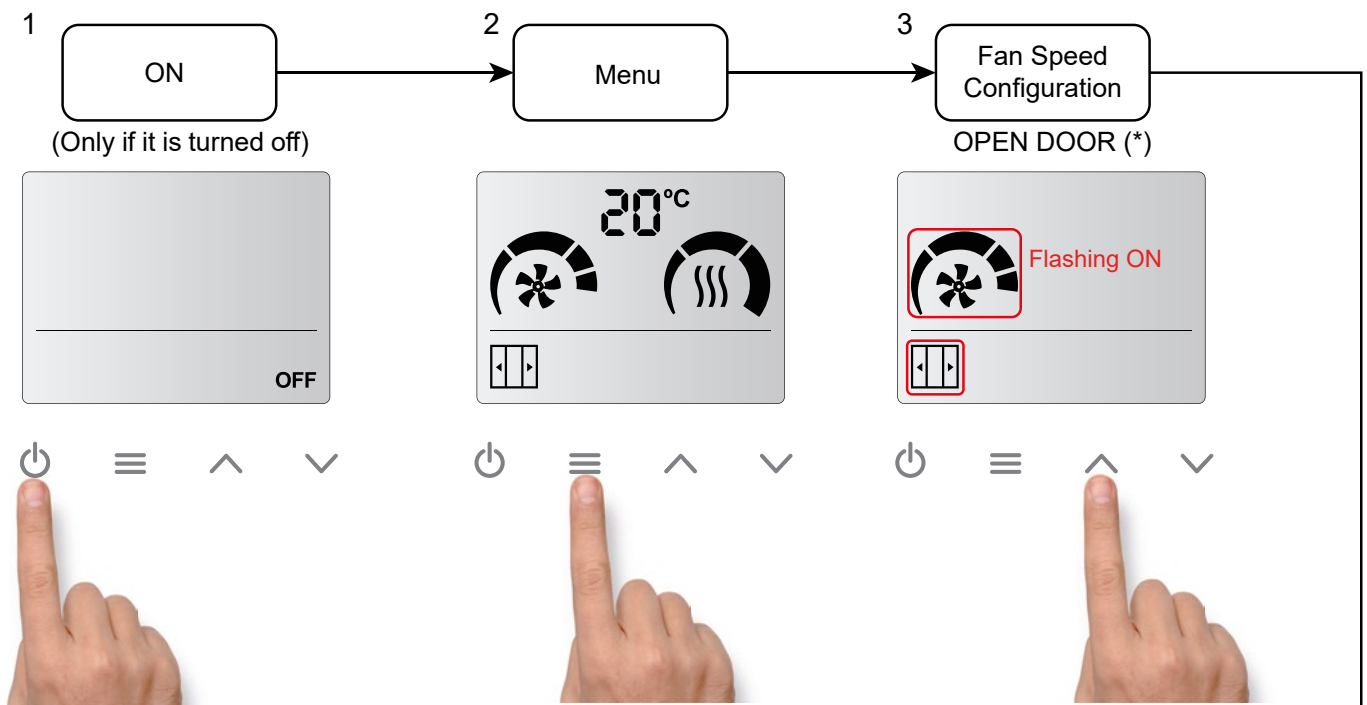
When turn on the unit or power supply is restored: if memory is ON, it will return to the configuration it had before turn off or external incident (power supply fail).



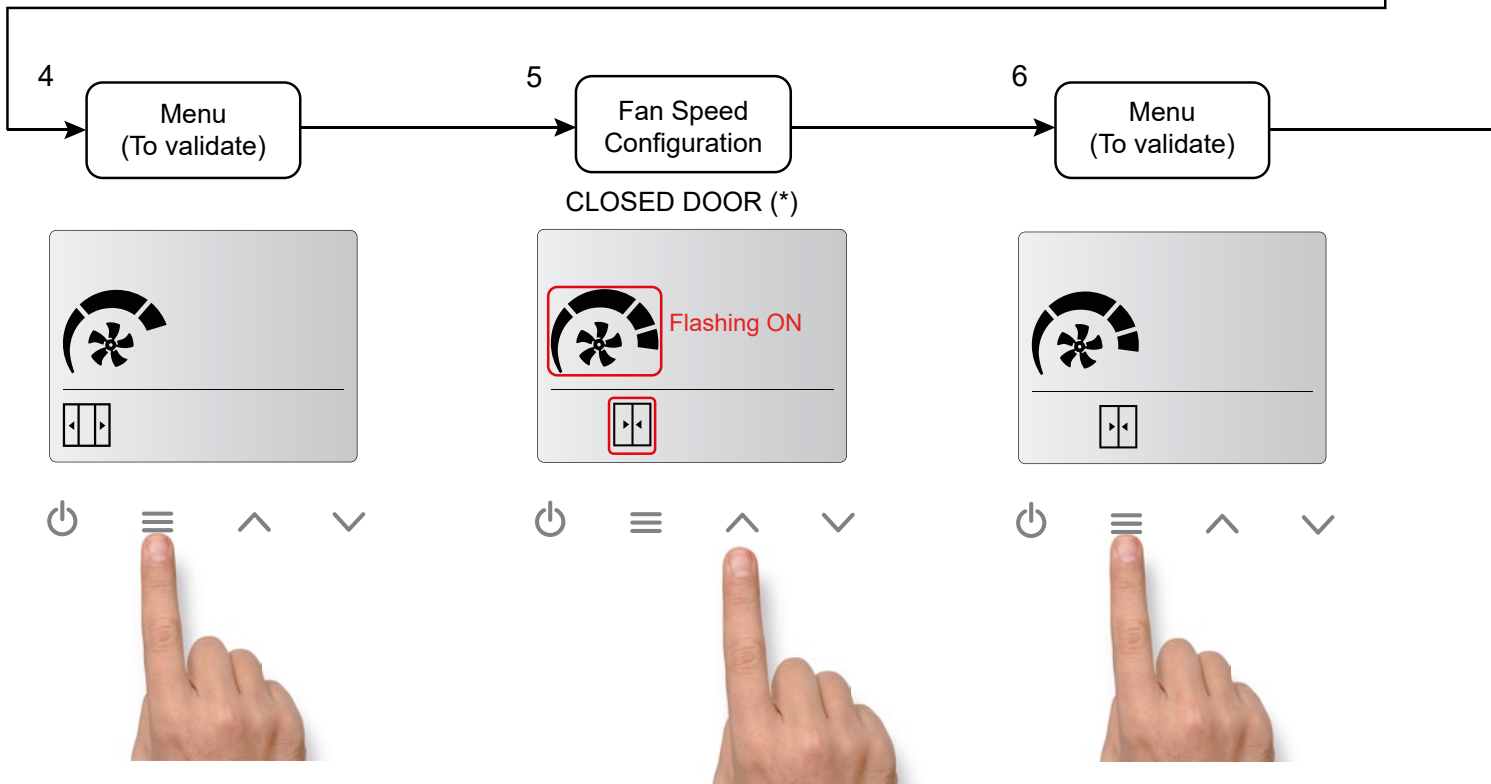
(*) If the door contact is not detected, the door open and door closed icons will not appear. Only one speed and one heating will be available.

For the door icons to appear, a door contact must be connected to the 'PCB DIN1' input and a door opening and closing cycle must be performed.

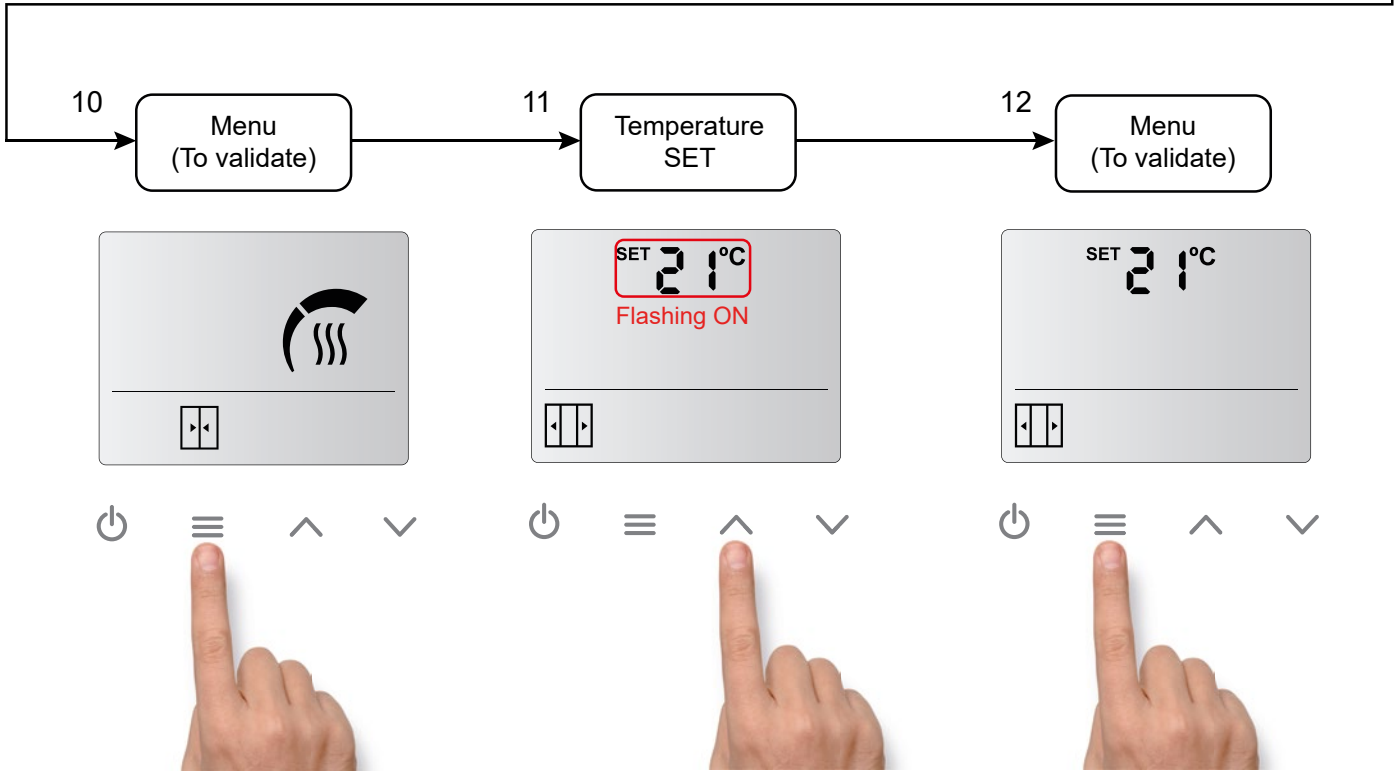
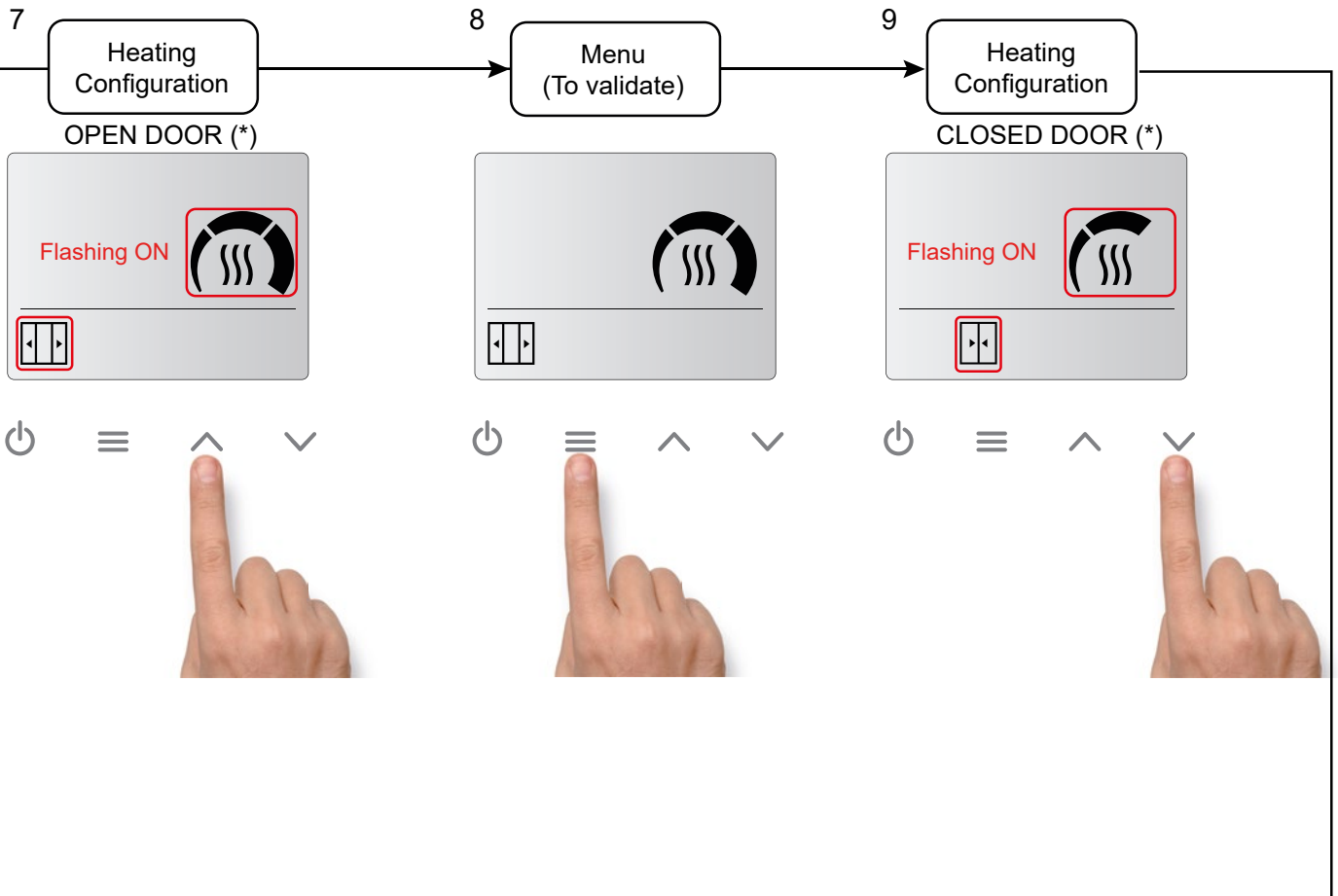
Menu Flow for heated air curtains models (it's the same process for electric heated, water heated or heat pump units) with CD control:



When turn on the unit or power supply is restored: if memory is ON, it will return to the configuration it had before turn off or external incident (power supply fail).

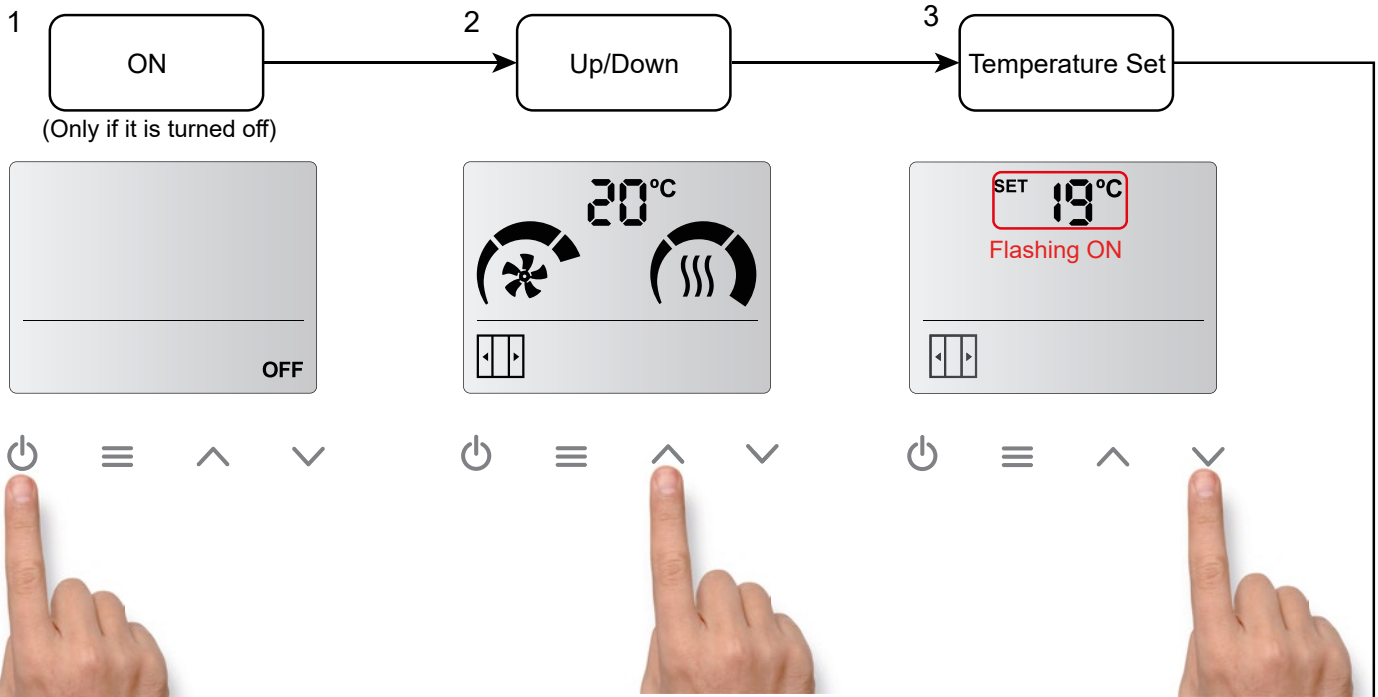


(*) If the door contact is not detected, the door open and door closed icons will not appear. Only one speed and one heating will be available. For the door icons to appear, a door contact must be connected to the 'PCB DIN1' input and a door opening and closing cycle must be performed.

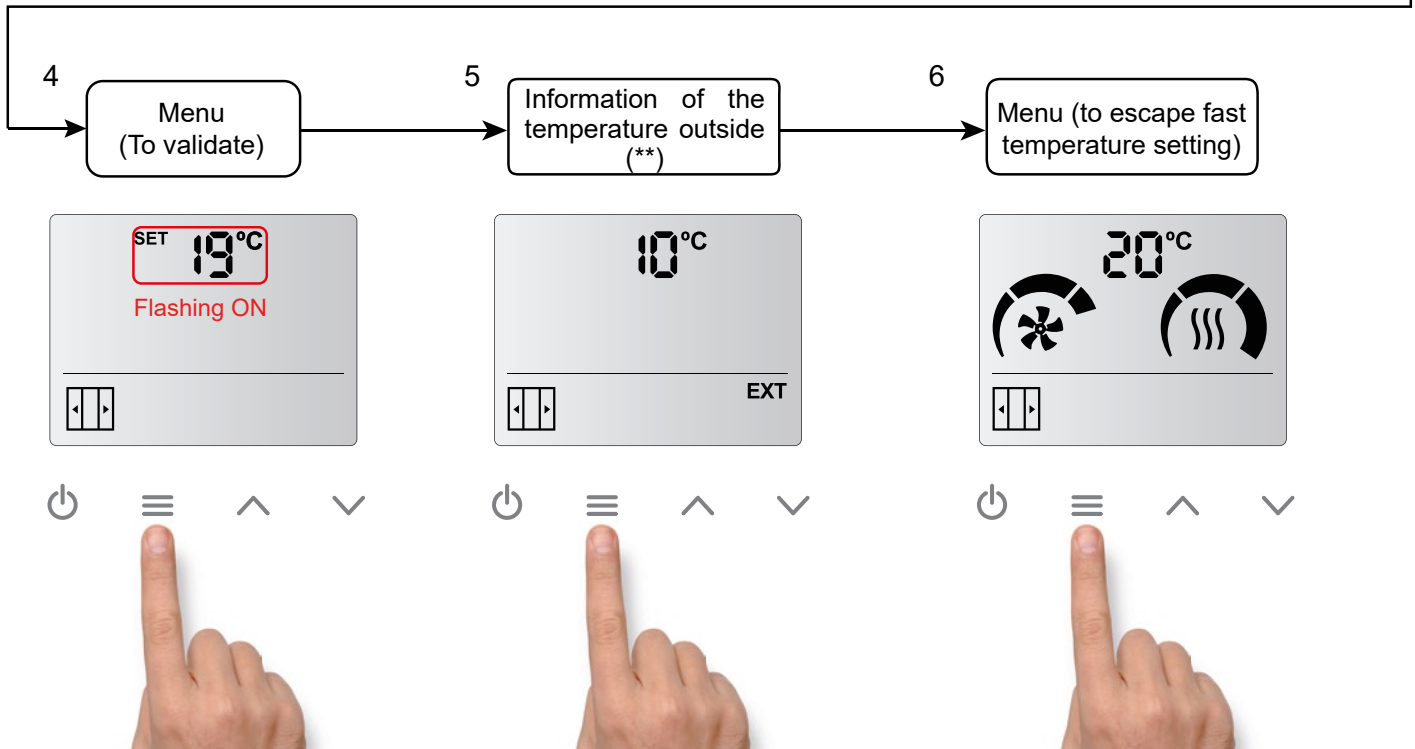


(*) If the door contact is not detected, the door open and door closed icons will not appear. Only one speed and one heating will be available.
For the door icons to appear, a door contact must be connected to the 'PCB DIN1' input and a door opening and closing cycle must be performed.

Fast access for temperature setting (only for heated models):



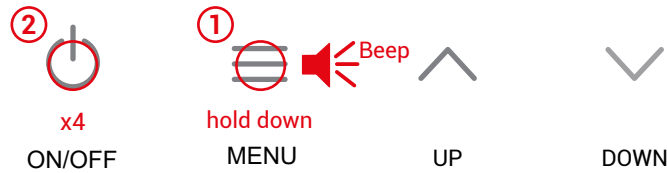
When turn on the unit or power supply is restored: if memory is ON, it will return to the configuration it had before turn off or external incident (power supply fail).



(**) Only if an outside temperature sensor is installed on the air curtain PCB.

Control Locking

The control can be locked, but the air curtain will still operate normally.
To lock the device, the user needs to press the following key combination:

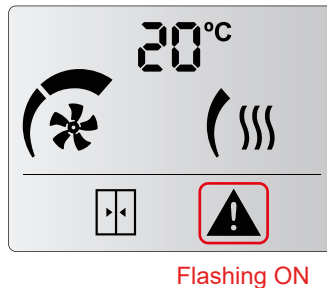


Hold down the menu button until the beep sounds and press the ON/OFF button 4 times and release the MENU button. Then a higher-pitched beeping sound will be played.

When the equipment is locked, the user will not be able to carry out any action. This limitation also applies with the remote control.

For example, when pressing the menu, a lower-pitched beep will be played indicating that the equipment is locked.

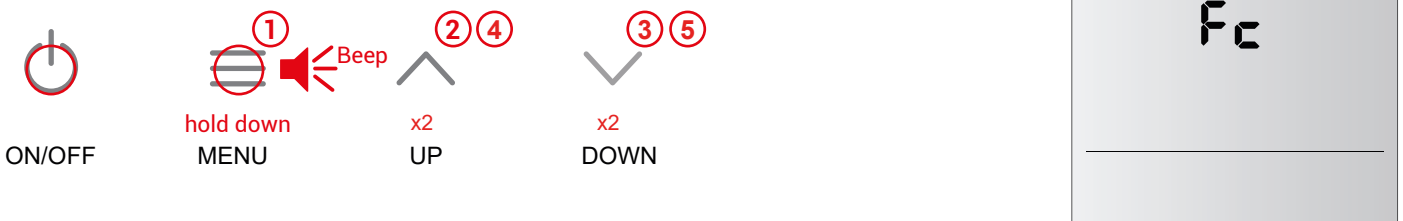
In addition, the alarm symbol shall appear on the display.



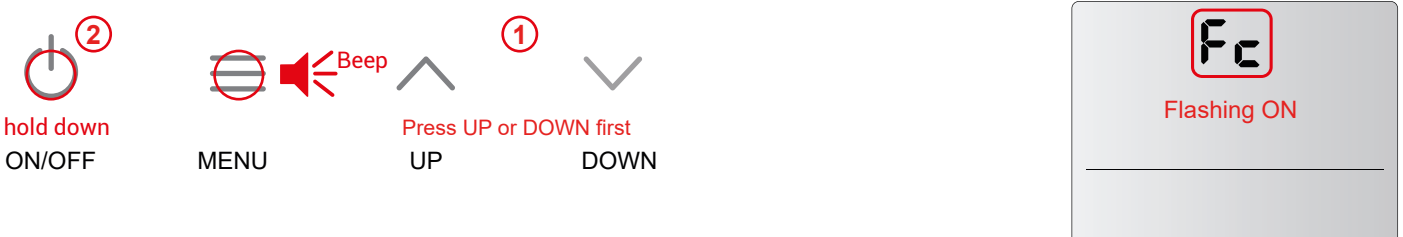
To **unlock the unit**, the user must repeat the same combination of buttons as for locking.
Then a higher-pitched beeping sound will be played, indicating that the control has been unlocked.

3. FACTORY CONFIGURATION RESET

The factory configuration reset function returns to the default values of the configuration menu, to do so:
Hold down the MENU button until the beep sounds, press alternitavely 4 times the UP and DOWN buttons, 2 times for each. The icon Fc will appear on screen.



Press either the UP or the DOWN button, the Fc icon will flash on. Afterwards, hold down the ON/OFF icon for 3 seconds and you will hear 3 beep sounds to finally return to the factory configuration.



Cooling, Autocooling, External control and Boost function

Cooling:

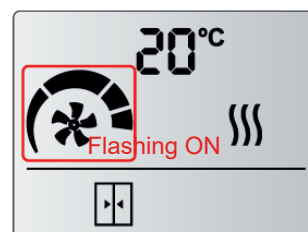
When the discharge temperature is lower than the ambient temperature, Cooling mode starts working (flashing temperature units icon) and limits to the third fan speed. The fan icon will flash intermittently in case the set speed is higher than 3.



Autocooling:

Autocooling is only available for Electric heating.

If the air curtain has been running with heating for more than 10 s at a time and the user switch it off, the ventilation continues ON (at the same speed before stop the control) up to a maximum of 90 s depending on the heating working time. The ventilation speeds icons will flash intermittently and the fan icon will remain static.



External control:

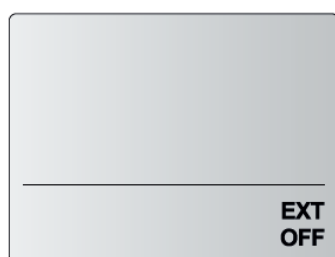
The "EXT" icon indicates that there is an external control to the unit and it is affecting the unit. There are four external signals available, depending on the program selected.

In the P1 program:

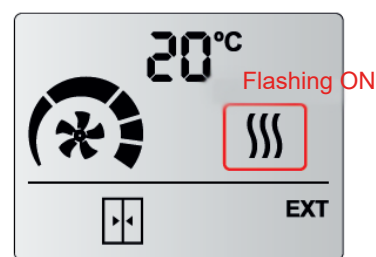
- **EXT OFF:** The unit has been stopped by External OFF contact. Not considered an alarm.
- **HEAT OFF:** Heating OFF, stopped externally. Not considered an alarm.

In the P2 program:

- **FAN EXT:** It is possible to select a fan speed when the DIN1 is closed.
- **Defrost:** The unit is set to configured speed (V1 default) for the duration of the defrost. The fan and ventilation speeds icons will flash intermittently.



EXT CONTROL OFF



HEAT OFF

Boost Function:

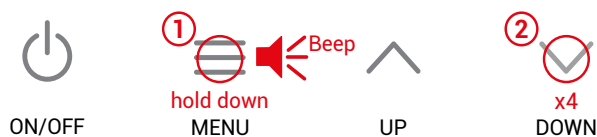
The Boost function increases automatically the setpoint temperature (SET) when the door is open. For the function to be active, the door contact or the exterior sensor must be installed and, in addition, the Boost function varies according to the accessories installed:

Door contact	Exterior sensor	Boost
NO	NO	Not available
YES	NO	Open door → Always Boost *
NO	YES	Exterior temperature ≤ SET Temperature -7
YES	YES	Open door + Exterior temperature ≤ SET Temperature -7

*If you want to deactivate this function, set function 10 in the configuration menu to 0°.

Advanced Configuration

To access the advanced menu, hold down the menu button (until a beep is heard) then press the DOWN button 4 times and release the MENU button.



1- Door Delay (0,5,10...90)(seconds) 15 sec by default	2- Maximum speed (limit) Open Door (*)	3- Maximum speed (limit) Closed Door (*)	4- Maximum heating (limit) Open Door (*)
5- Maximum heating (limit) Closed Door (*)	6- Filter/maintenance (effective days) (*) (0,1,2....99) (0 days by default)	7- Celsius/Farenheit Celsius by default	8- Memory 00 - Memory OFF 01 - Memory ON (by default)
9- Thermo FAN On by default	10- Set Boost Mode SET + x°C when door is open (+2 °C by default) (see page 11)	11- Defrost Function Only for Heat Pump air curtains	Press Button Between screens

1- Time that the speed and heating stages remain in open door mode from the time the door contact is closed until the air curtain operates at closed door speed and heating stages.

2,3,4 and 5- Limits the ventilation and heating stages that can be selected in the user menu.

6- The numbers are sequential. If the maximum is reached, it will go back to the beginning. For example, in the *Filter/maintenance* days when the user reach 99 in case to keep going up it will go back to 0.

8- In a power failiure:

- If Memory is set as ON. Once power supply is restored, the unit will go back to work with the same parameters than before the failure.
- If Memory is set as OFF. The unit will remain switched off.

9- Thermo FAN (ON) - Ventilation ON when room temperature reaches SET temperature at closed door. Thermo FAN (OFF) - Ventilation OFF when room temperature reaches SET temperature at closed door.

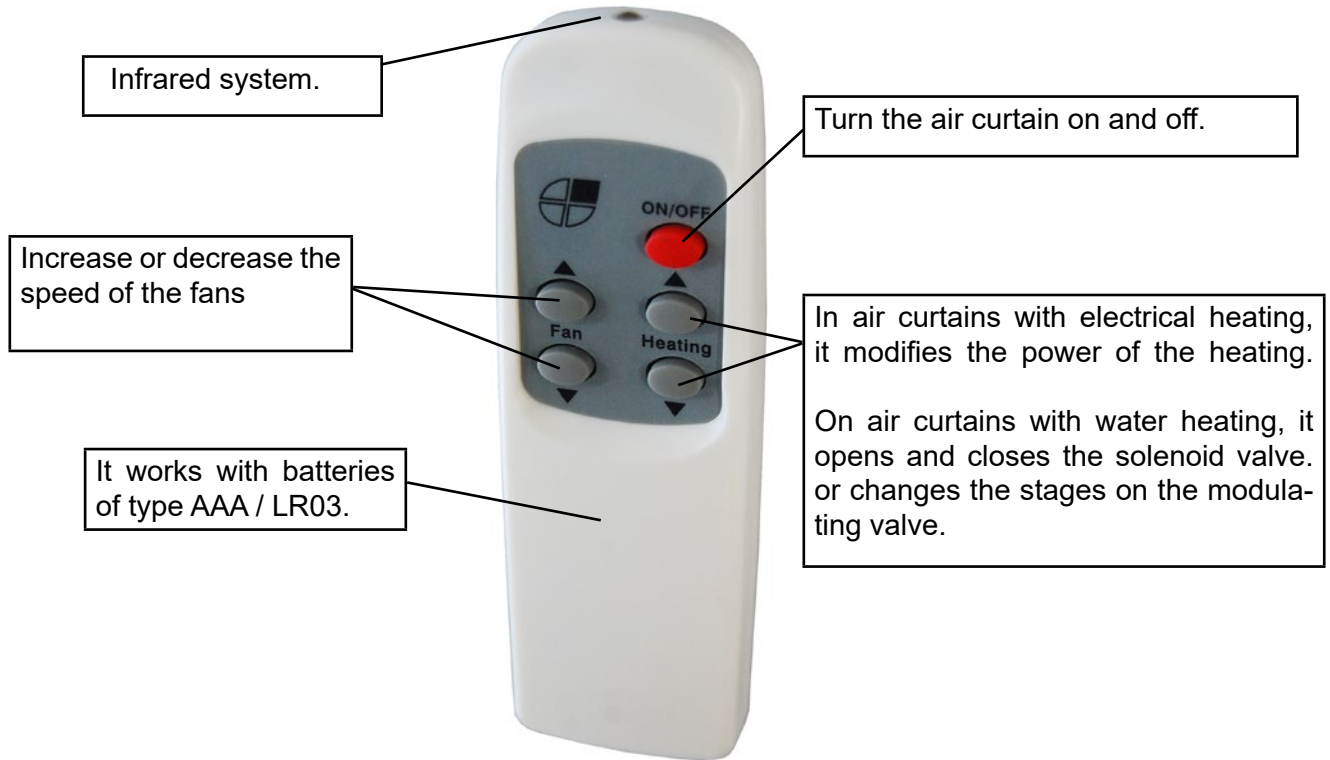
(*) By default, door open/close icons are not activated. First time the door contact is closed, then it is possible to choose door open heating/ventilation and door closed heating/ventilation.

Special regulators

If there is a need to be able to control more parameters (intelligent proactive regulation, automatic/manual operation, door delay, time programmer, energy saving mode, multi-device management and BMS Modbus connection, among others)), there is one controller that allow much more possibilities than the standard controller. It has its own manual:

- Clever PRO control

Remote Control Features

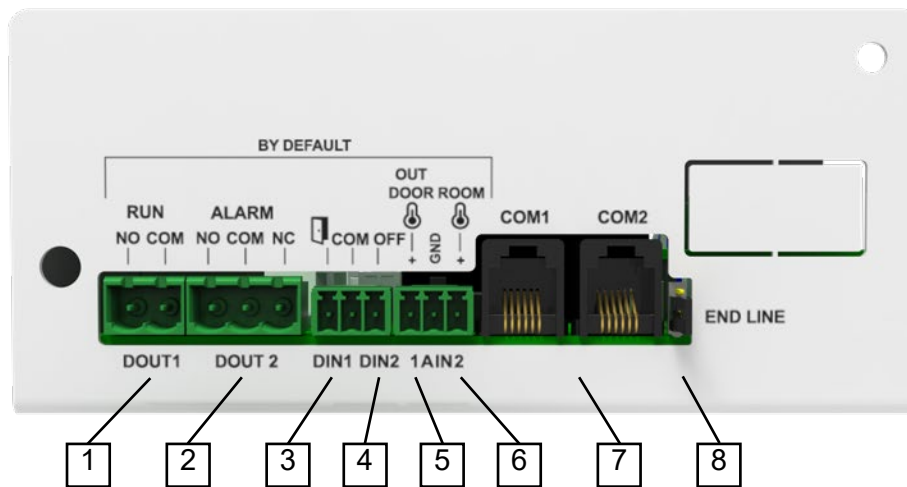


Characteristics of PCB boards

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

- AC: 110 - 230 V voltage range.
- EC: from 0 - 10V DC voltage range.

All PCBs have different inputs and outputs:



1. RUN OUT (DOUT1): Free Voltage digital output. It remains closed when the air curtain is working, it opens when the air curtain is not working.
2. ALARM SIGNAL (DOUT2): Only one of two options has to be connected, it cannot be connected simultaneously.
 - 2.1. ALARM SIGNAL (DOUT2, NO): Open when alarm signal is active.
 - 2.2. ALARM SIGNAL (DOUT2, NC): Closed when alarm signal is active.
3. DOOR CONTACT (DIN1): Free Voltage digital input. Door contact is closed when door is also closed, door contact opens consequently when door is open.
4. UNIT OFF (DIN2): Free Voltage digital input. Stops the air curtain, both heating and ventilation.
5. OUTDOOR (AIN1): Analog input for outdoor temperature sensor NTC B3950 10K at 25°C.
6. ROOM (AIN2): Analog input for room temperature sensor NTC B3950 10K at 25°C type. Once connected, it replaces Advanced PRO inbuilt sensor.

Internally the PCB has two temperature sensor connectors.

TEMP1: Replaces PCB sensor and measures outlet jet temperature.

TEMP2: Measures inlet temperature.

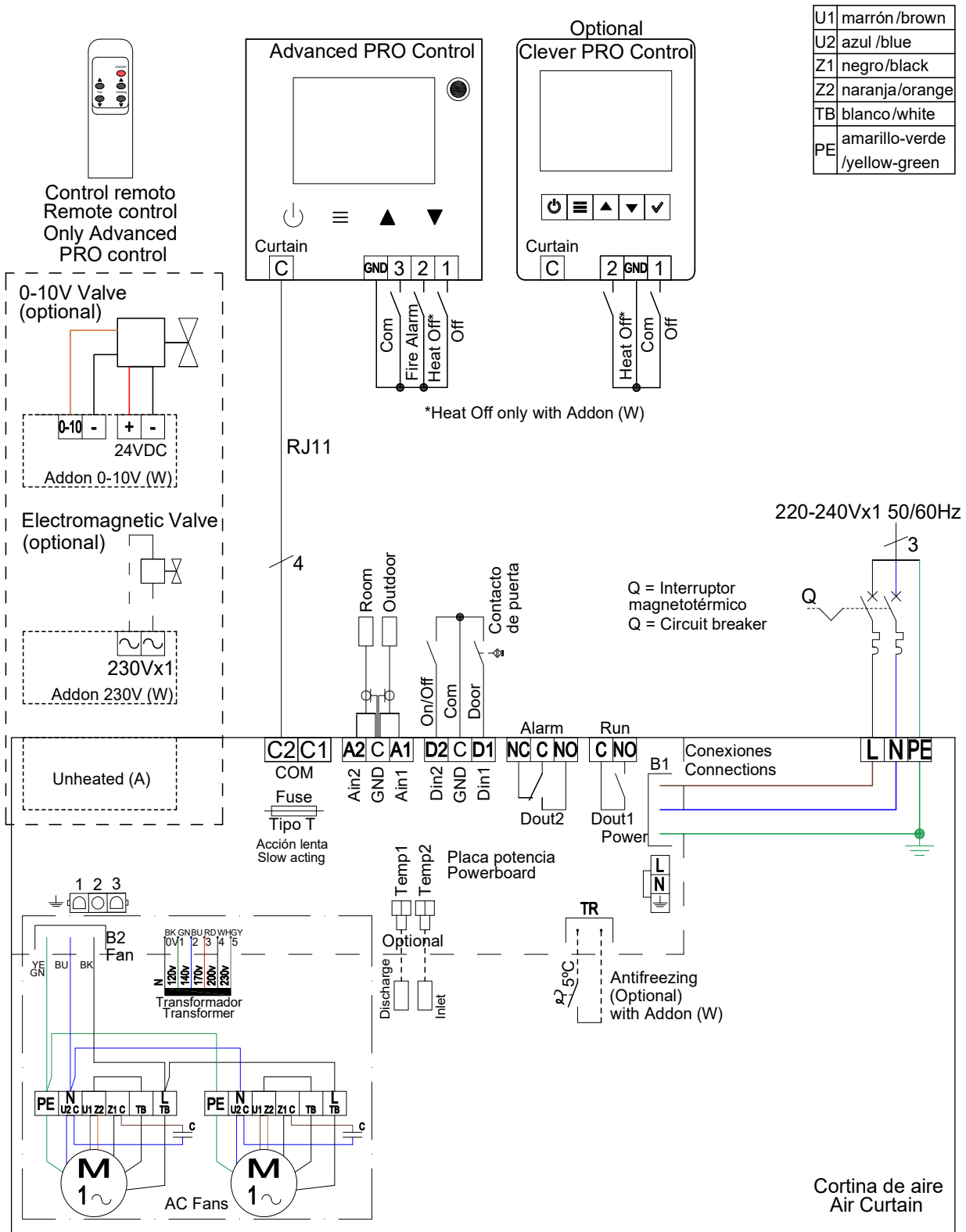
7. COM1/COM2: Communication port between Advanced PRO Control and other air curtains. COM1 and COM2 ports are interchangeable.
8. END LINE: When multiple air curtains are connected to one only control, the last PCB must incorporate a Jumper in "END LINE" pins.

WIRING DIAGRAMS

For the models Windbox L, XL, the following wiring diagrams are enclosed:

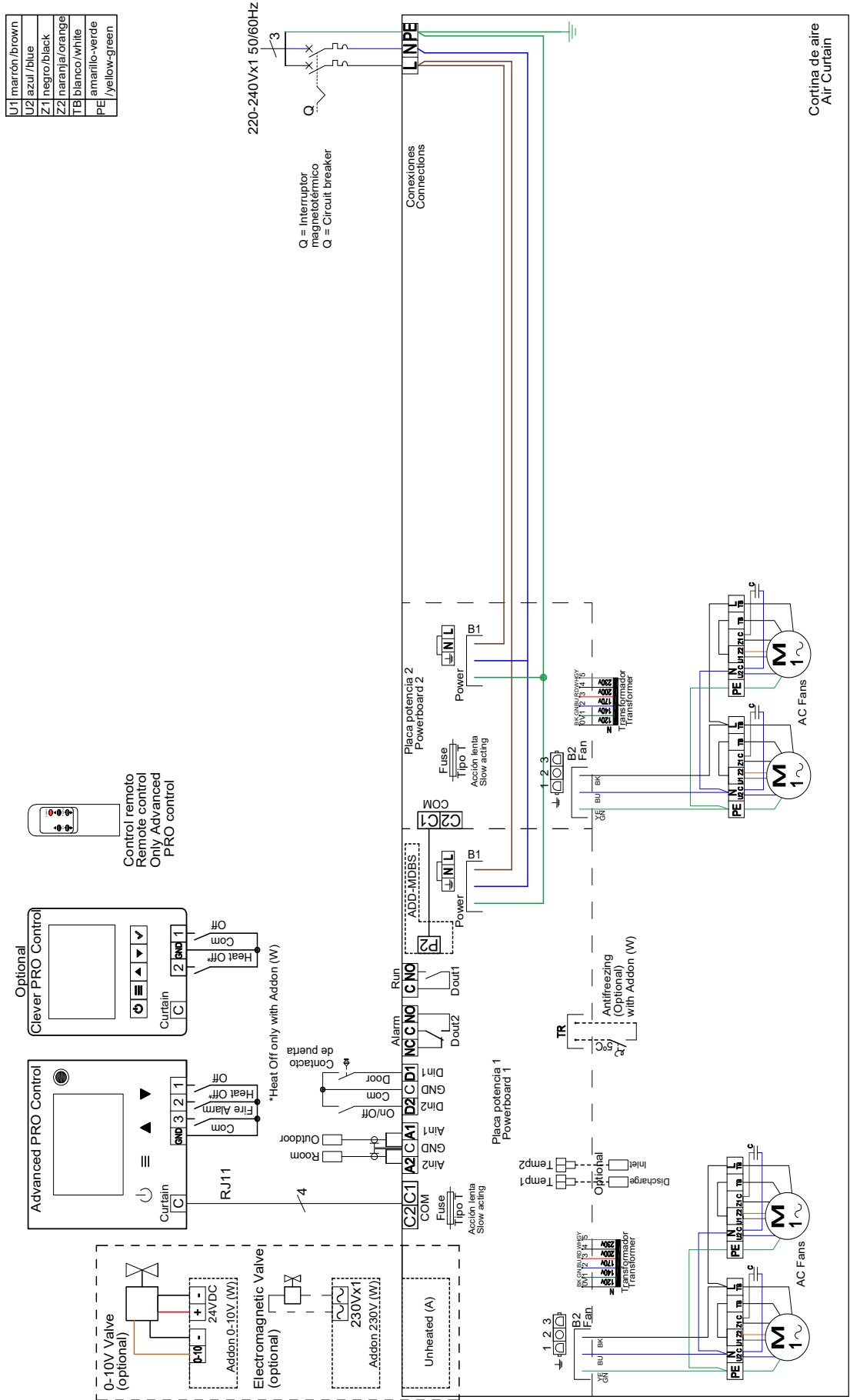
- Air curtain with water coil or only air L 10/15, XL10 (AIRDOE12000)
- Air curtain with water coil or only air L 20/25/30, XL 15/20 models (AIRDOE12010)
- Air curtain with water coil or only air XL 25/30 (AIRDOE12020)
- Electrical heated air curtain L-XL 10 (19, 25 kW), L 15 (30,5 kW) (AIRDOE12030)
- Electrical heated air curtain XL 10 (35 kW), L 15 (37,5 kW) (AIRDOE12040)
- Electrical heated air curtain XL 15 (37,5 kW), L 20 (42 kW), L 20/25 (50 kW) (AIRDOE12050)
- Electrical heated air curtain XL 15 (52,5 kW) (AIRDOE12060)
- Electrical heated air curtain L 30, XL 20 (70 kW) (AIRDOE12070)
- Electrical heated air curtain L 20/30 XL25 (60 kW) (AIRDOE12080)
- Electrical heated air curtain XL 25/30 (70 kW) (AIRDOE12090)
- Electrical heated air curtain XL 30 (80 kW) (AIRDOE12100)

Air curtain with water coil or only air L 10/15, XL10 (AIRDOE12000)



In case there is a need to connect the curtain to a PLC, the corresponding diagram is attached

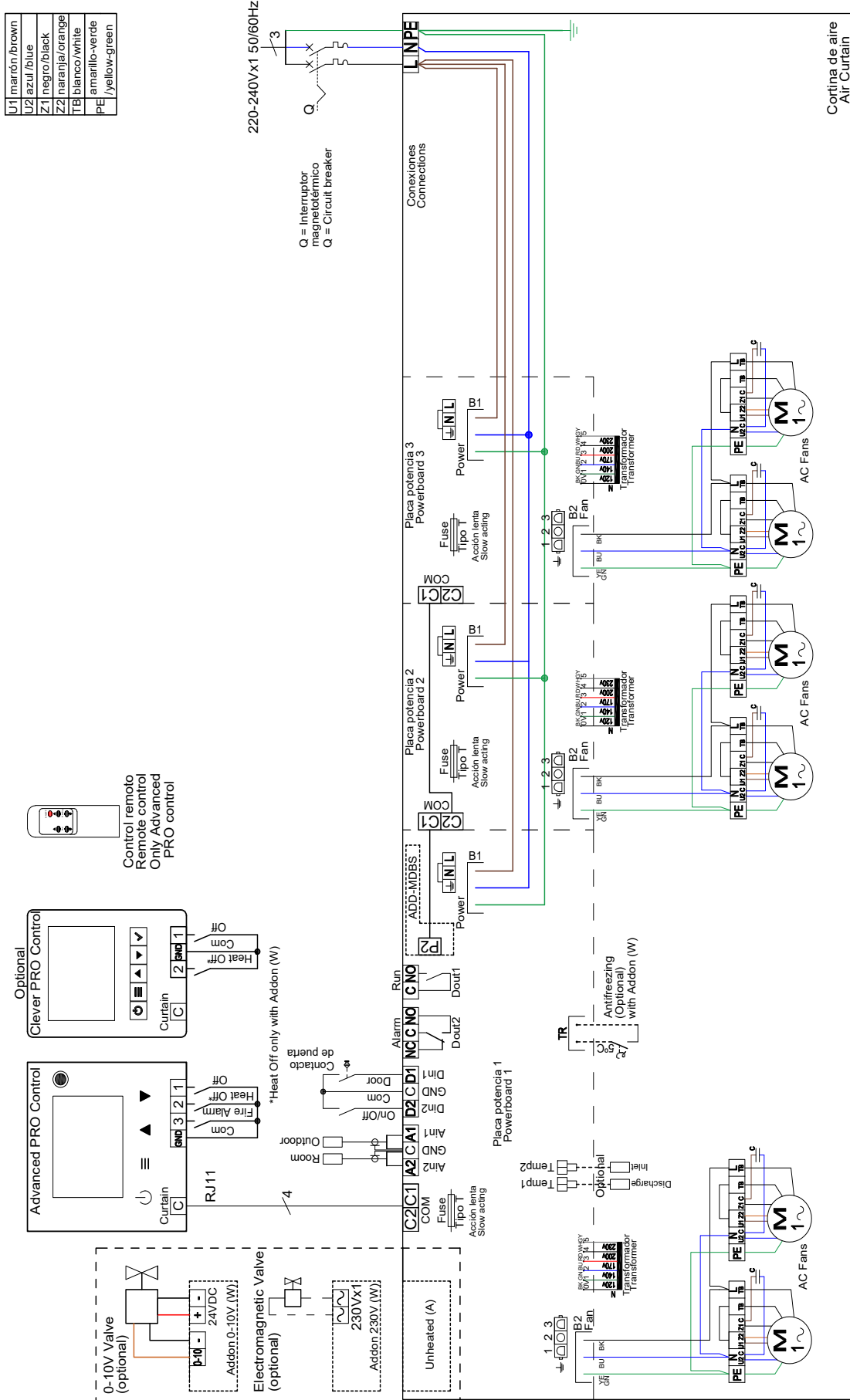
Air curtain with water coil or only air L 20/25/30, XL 15/20 models (AIRDOE12010)



In case there is a need to connect the curtain to a PLC, the corresponding diagram is attached

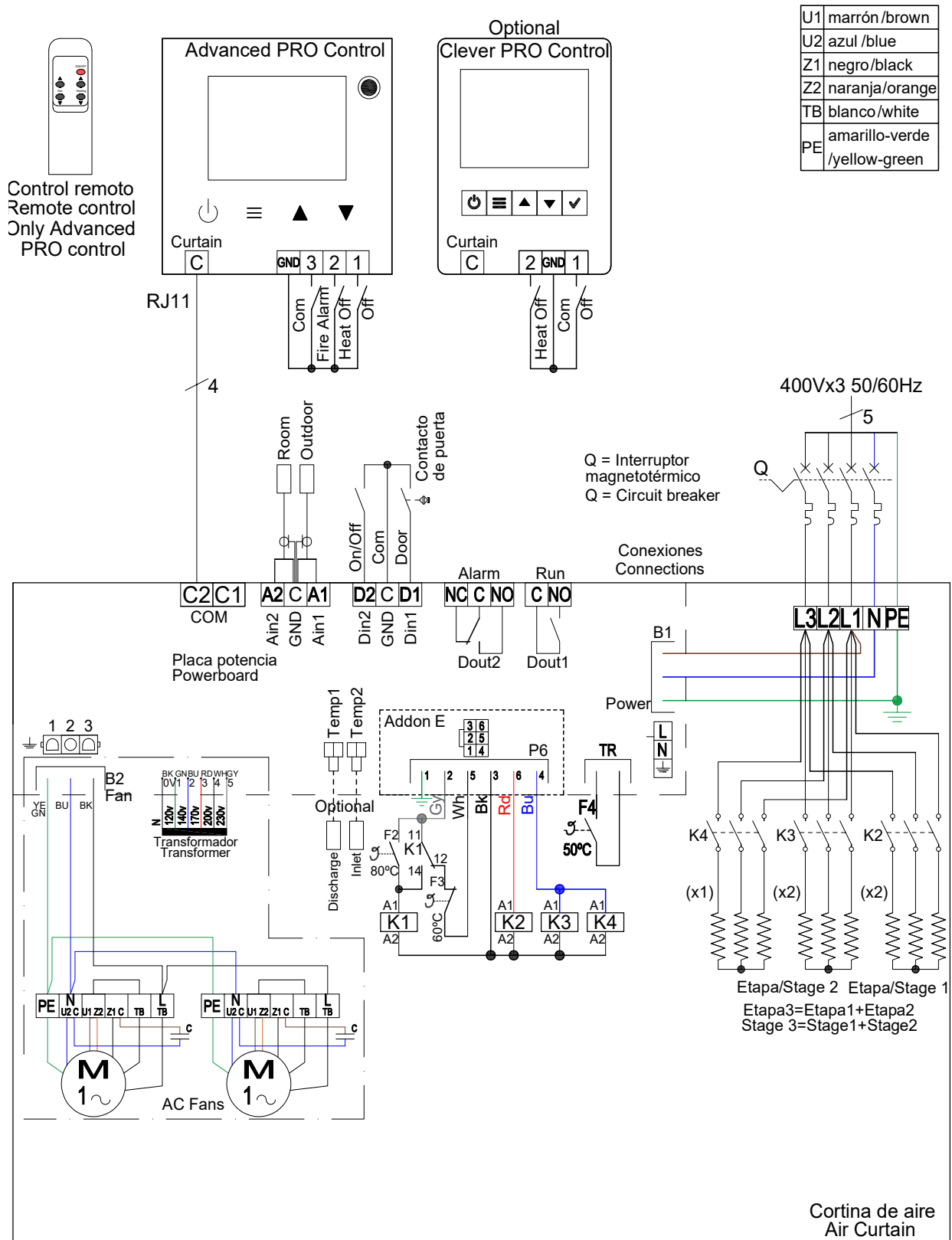
Air curtain with water coil or only air XL 25/30 (AIRDOE12020)

U1	marón/brown
U2	azul/blue
Z1	negro/black
Z2	naranja/orange
TB	blanco/white
PE	amarillo-verde /yellow-green



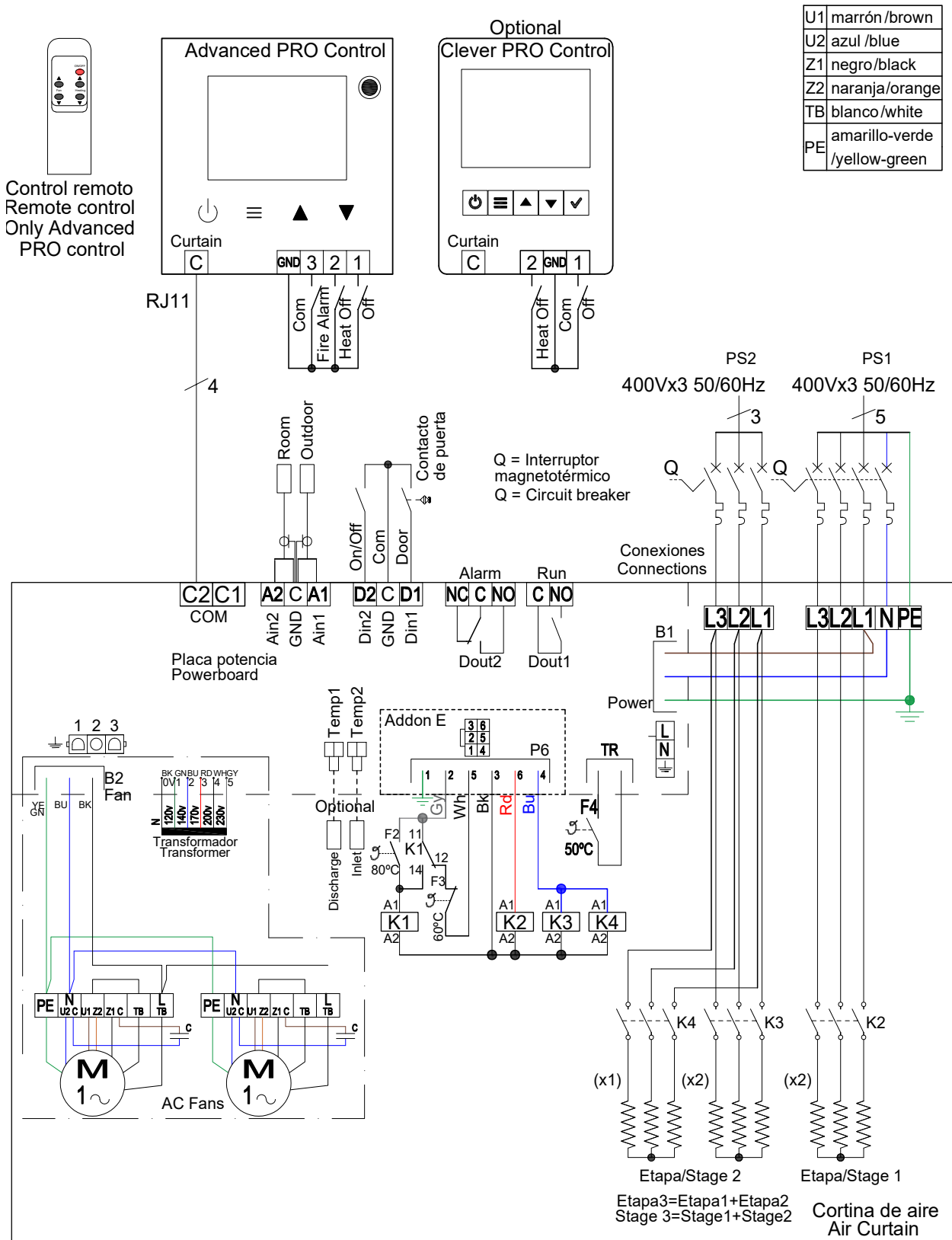
In case there is a need to connect the curtain to a PLC, the corresponding diagram is attached

Electrical heated air curtain L-XL 10 (19, 25 kW), L 15 (30,5 kW) (AIRDOE12030)



In case there is a need to connect the curtain to a PLC, the corresponding diagram is attached

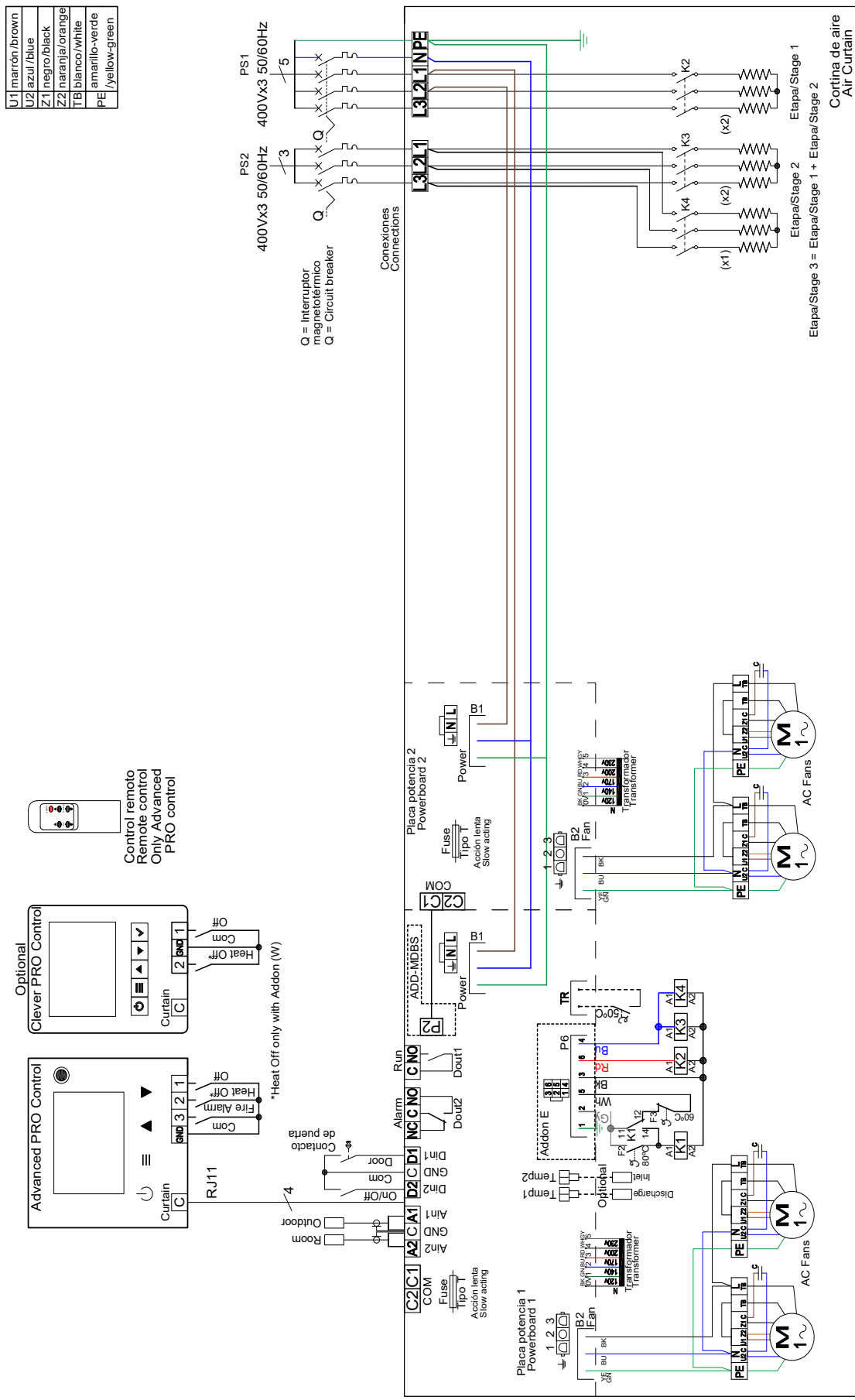
Electrical heated air curtain XL 10 (35 kW), L 15 (37,5 kW) (AIRDOE12040)



In case there is a need to connect the curtain to a PLC, the corresponding diagram is attached

Electrical heated air curtain XL 15 (37,5 kW), L 20 (42 kW), L 20/25 (50 kW) (AIRDOE12050)

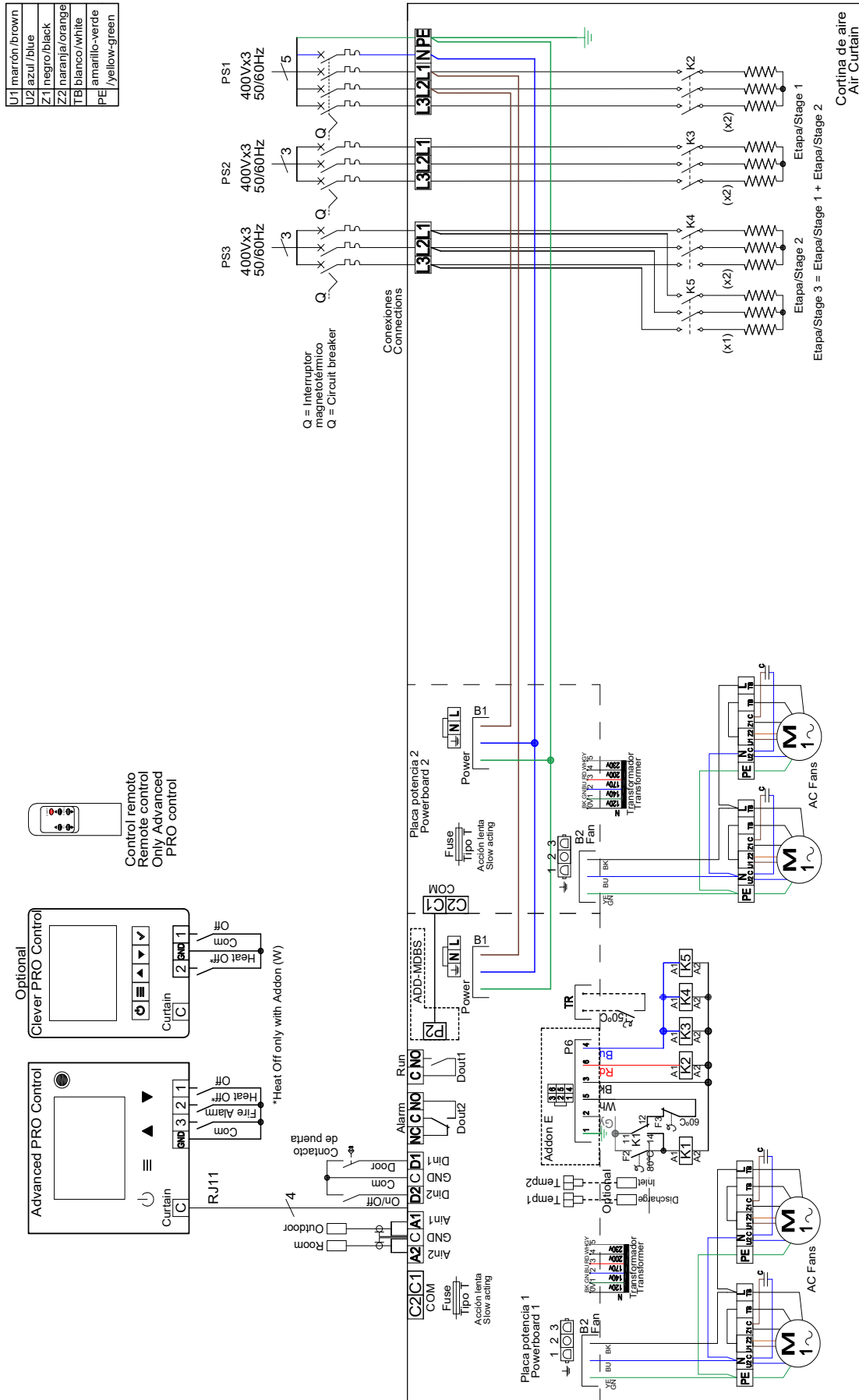
U1	marrón /brown
U2	azul /blue
Z1	negro/black
Z2	naranja/orange
TB	blanco/white
PE	amarillo-verde /yellow-green



In case there is a need to connect the curtain to a PLC, the corresponding diagram is attached

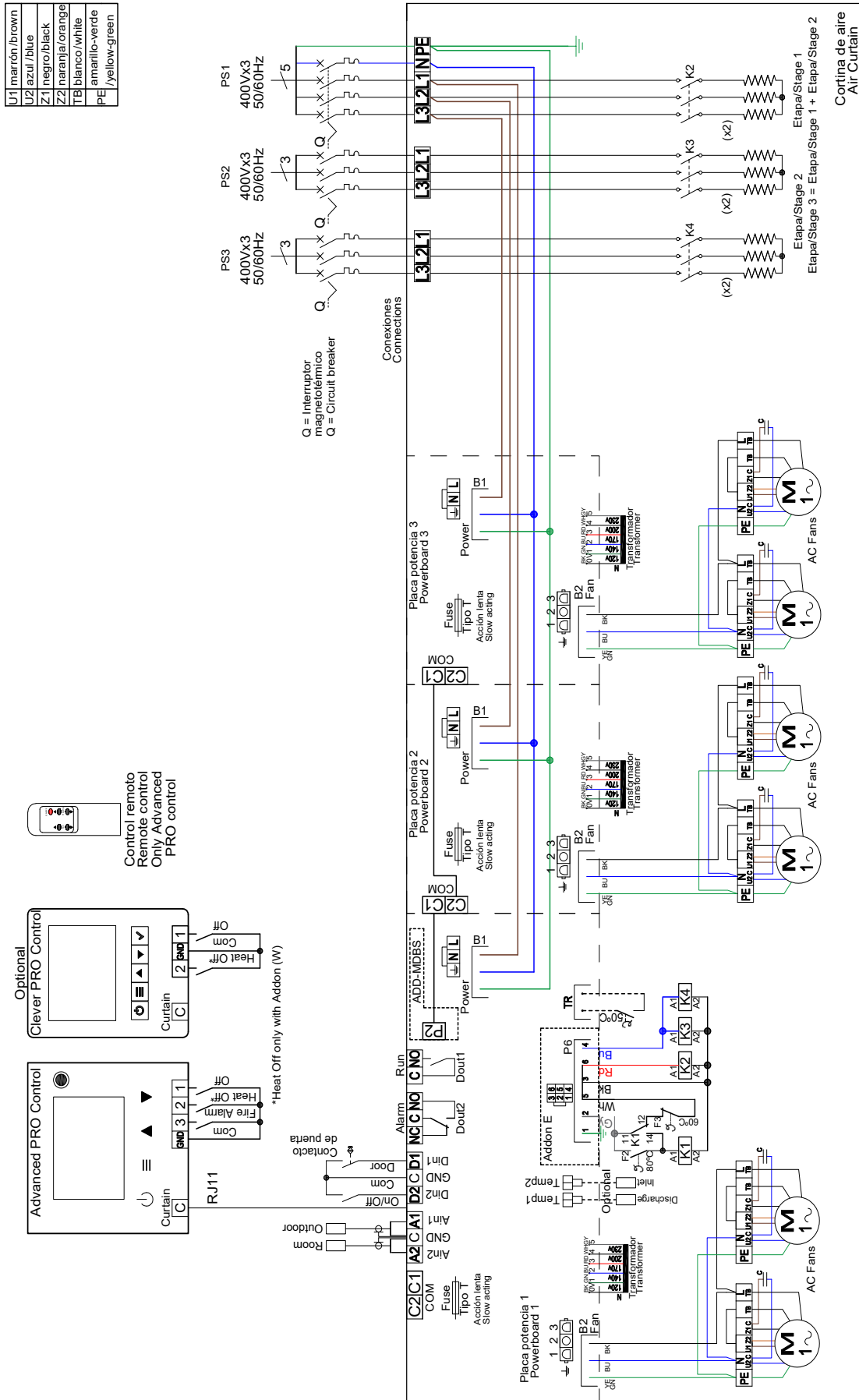
Electrical heated air curtain L 30, XL 20 (70 kW) (AIRDOE12070)

U1	marrón /brown
U2	azul /blue
Z1	negro /black
Z2	naranja /orange
TB	blanco /white
PE	amarillo-verde /yellow-green



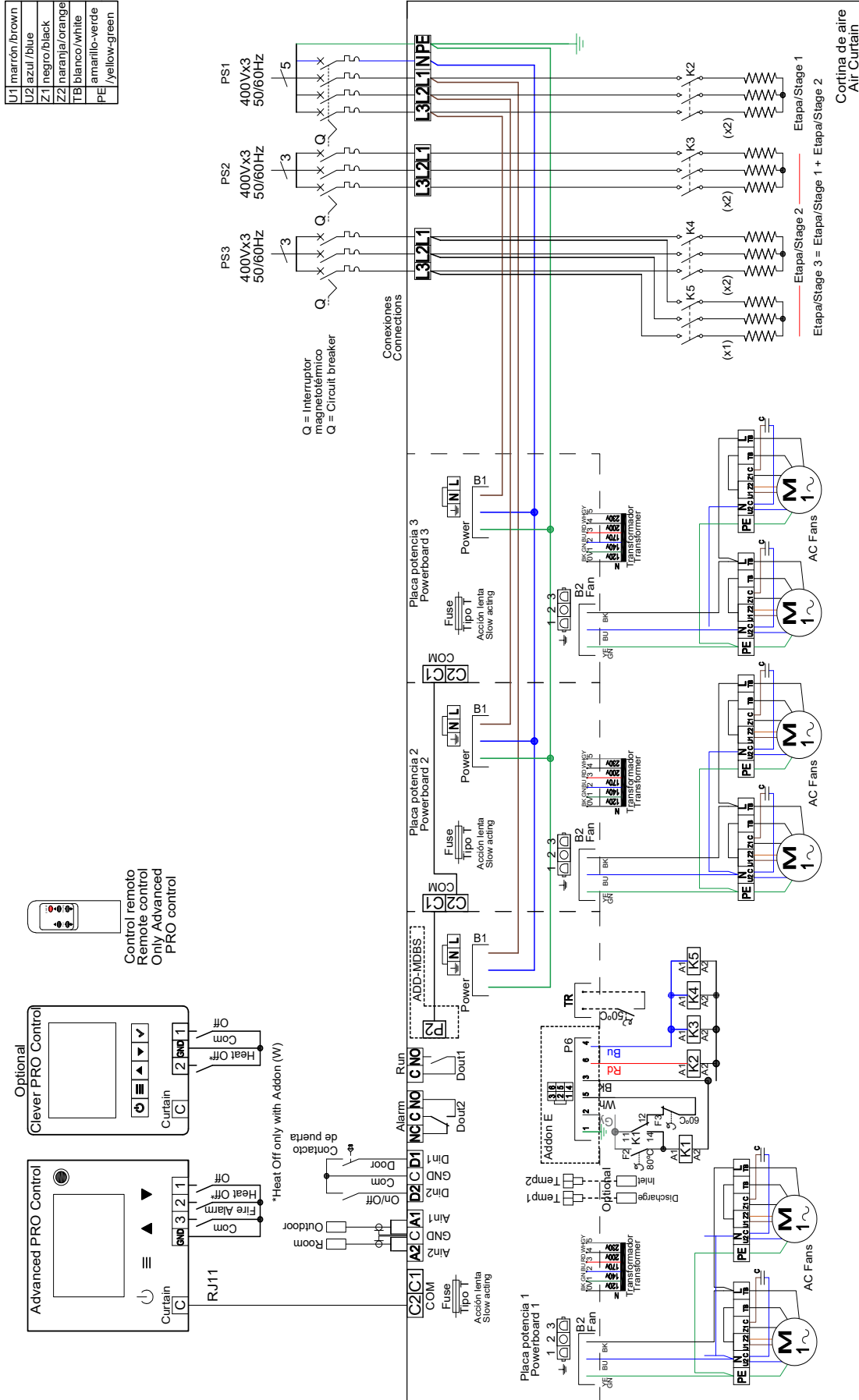
Electrical heated air curtain L 20/30 XL25 (60 kW) (AIRDOE12080)

U1	naranja/brown
U2	azul/blue
Z1	negro/black
Z2	naranja/orange
TB	blanco/white
PE	amarillo-verde /yellow-green



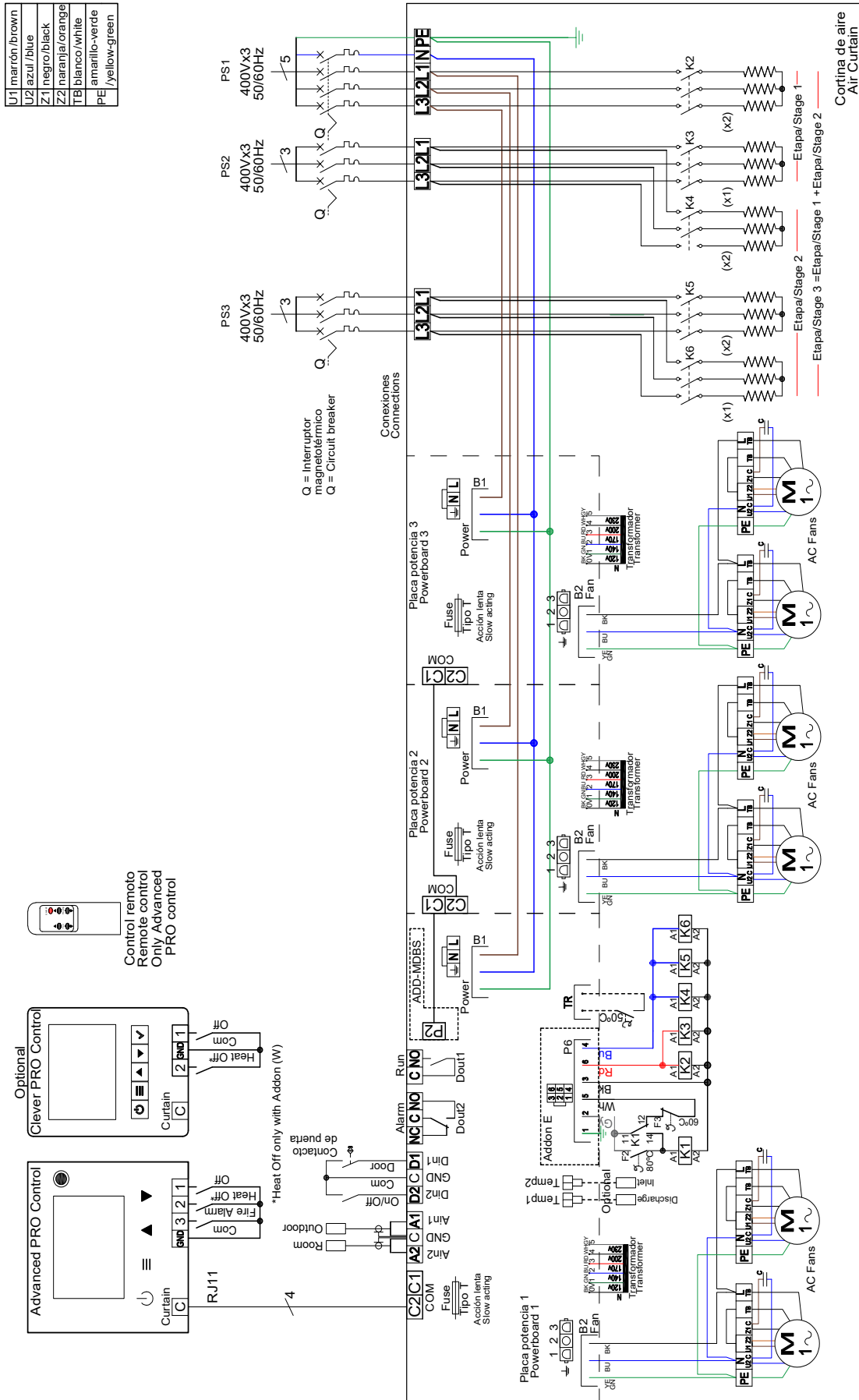
Electrical heated air curtain XL 25/30 (70 kW) (AIRDOE12090)

U1	marrón /brown
U2	azul /blue
Z1	negro/black
Z2	naranja/orange
TB	blanco/white
PE	amarillo-verde /yellow-green



Electrical heated air curtain XL 30 (80 kW) (AIRDOE12100)

U1	marrón/brown
U2	azul/blue
Z1	negro/black
Z2	naranja/orange
TB	blanco/white
PE	amarillo-verde /yellow-green



Cortina de aire
Air Curtain



Technical Features



Maximum range
L : 5m LT : 6m
XL : 7m XLT : 8m



Airflow / Length
3800 - 17400 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 - 80 kW
P : 16,2 - 85,3 kW



Control
Plug&Play Advanced PRO
+ IR remote control
(Optional Clever Control)

RAL 9016
standard



Stainless
steel



Other colors
on request



Casing
Galvanised Steel



Grille type [**]
Industrial (standard)
Decorative (optional)



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

[*] Consult separate DX catalogs.

[**] Two front inlet grille options: industrial perforated by default (free of maintenance) or micro-perforated decorative with prefilter function.

WINDBOX L,XL has been designed to create a high effective air barrier for doors up to 8 meters high, maintaining internal conditions and reducing energy losses. A highly powerful and robust industrial air curtain model for large dimension doors, ready for visible installation over the door and prepared for multiple false ceiling installation configurations.

This air curtain model works with double-inlet centrifugal fans driven by an external rotor motor and low noise level.

Advanced Plug&Play control. Includes: Advanced PRO control with LCD display and integrated thermostat, door contact, 7m RJ11 cable and remote control. Optional: intelligent Clever PRO Control (automatic, programmable, modbus for PLC, timer, etc).

❄ UNHEATED - 230Vx1

Model	Airflow m ³ /h	Ventilation power 230V~50Hz kW	Ventilation current 230V~50Hz A	Noise level (5 m) dB(A)	Weight kg
L 1000 A	4000	1,04	4,4	63	72
L 1500 A	6000	1,56	6,6	64	108
L 2000 A	8000	2,08	8,8	65	145
L 2500 A	10000	2,60	11,0	66	177
L 3000 A	12000	3,12	13,2	67	213
XL 1000 A	5300	1,40	6,0	65	78
XL 1500 A	7950	2,10	9,0	66	117
XL 2000 A	10600	2,80	12,0	67	157
XL 2500 A	13250	3,50	15,0	68	192
XL 3000 A	15900	4,20	18,0	69	231



❄️ UNHEATED - 400Vx3

Model	Airflow m ³ /h	Ventilation power 400Vx3~50Hz kW	Ventilation current 400Vx3~50Hz A	Noise level (5 m) dB(A)	Weight kg
L 1000 A - 400Vx3	4260	1,2	2,6	63	72
L 1500 A - 400Vx3	6400	1,8	3,9	64	108
L 2000 A - 400Vx3	8660	2,4	5,2	65	145
L 2500 A - 400Vx3	10650	3,0	6,5	66	177
L 3000 A - 400Vx3	12780	3,6	7,8	67	213
XL 1000 A - 400Vx3	5800	1,76	3,2	65	78
XL 1500 A - 400Vx3	8700	2,64	4,8	66	117
XL 2000 A - 400Vx3	11600	3,52	6,4	67	157
XL 2500 A - 400Vx3	14500	4,40	8,0	68	192
XL 3000 A - 400Vx3	17400	5,28	9,6	69	231

⚡ ELECTRIC HEATED

Model	Airflow m ³ /h	Electrical heating capacity 400Vx3~50Hz (*) kW	Ventilation power 230V~50Hz kW	Ventilation current 230V~50Hz A	Noise level (5 m) dB(A)	Weight kg
L 1000 E	4000	6/13/19	1,04	4,4	63	90
L 1000 E-25	4000	10/15/25	1,04	4,4	63	90
L 1500 E	6000	8/22,5/30,5	1,56	6,6	64	135
L 1500 E-37,5	6000	15/22,5/37,5 (**)	1,56	6,6	64	135
L 2000 E	8000	12/30/42 (**)	2,08	8,8	65	180
L 2000 E-50	8000	20/30/50 (**)	2,08	8,8	65	180
L 2500 E	10000	20/30/50 (**)	2,60	11,0	66	225
L 2500 E-60	10000	20/40/60 (***)	2,60	11,0	66	225
L 3000 E	12000	20/40/60 (***)	3,12	13,2	67	270
L 3000 E-70	12000	20/50/70 (***)	3,12	13,2	67	270
XL 1000 E	5300	10/15/25	1,40	6,0	65	95
XL 1000 E-35	5300	10/25/35 (**)	1,40	6,0	65	96
XL 1500 E	7950	15/22,5/37,5 (**)	2,10	9,0	66	144
XL 1500 E-52	7950	15/37,5/52,5 (**)	2,10	9,0	66	150
XL 2000 E	10600	20/30/50 (**)	2,80	12,0	67	192
XL 2000 E-70	10600	20/50/70 (***)	2,80	12,0	67	200
XL 2500 E	13250	20/40/60 (***)	3,50	15,0	68	240
XL 2500 E-70	13250	20/50/70 (***)	3,50	15,0	68	250
XL 3000 E	15900	20/50/70 (***)	4,20	18,0	69	268
XL 3000 E-80	15900	30/50/80 (***)	4,20	18,0	69	300

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

(**) 2 separated power supplies.

(***) 3 separated power supplies.



WATER HEATED - 230Vx1

Model	Airflow m ³ /h	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 230V~50Hz kW	Ventilation current 230V~50Hz A	Noise level (5 m) dB(A)	Weight kg
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
		kW	Pa	kW	Pa	kW	Pa				
L 1000 P	3800	19,68	1730	16,18	2570	17,18	1560	1,04	4,4	62	89
L 1500 P	5700	29,64	950	25,92	3210	29,04	5710	1,56	6,6	63	128
L 2000 P	7600	43,01	2390	35,58	3680	38,93	4330	2,08	8,8	64	171
L 2500 P	9500	56,01	4670	45,55	4750	49,36	4990	2,60	11,0	65	214
L 3000 P	11400	69,27	8090	56,78	8350	59,96	5770	3,12	13,2	66	260
XL 1000 P	4900	22,68	2250	18,98	3410	20,43	2120	1,40	6,0	64	94
XL 1500 P	7350	34,52	1240	30,45	4270	34,55	7780	2,10	9,0	65	137
XL 2000 P	9800	50,10	3140	41,83	4910	46,36	5910	2,80	12,0	66	183
XL 2500 P	12250	65,29	6130	53,56	6330	58,81	6810	3,50	15,0	67	227
XL 3000 P	14700	80,79	10640	66,78	11140	71,47	7890	4,20	18,0	68	278

WATER HEATED - 400Vx3

Model	Airflow m ³ /h	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 400Vx3 ~50Hz kW	Ventilation current 400Vx3 ~50Hz A	Noise level (5 m) dB(A)	Weight kg
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
		kW	Pa	kW	Pa	kW	Pa				
L 1000 P - 400Vx3	4050	20,45	1850	16,86	2760	17,96	1690	1,20	2,6	62	89
L 1500 P - 400Vx3	6075	31,23	1090	27,01	3460	30,36	6180	1,80	3,9	63	128
L 2000 P - 400Vx3	8100	44,72	2560	37,09	3960	40,71	4690	2,40	5,2	64	171
L 2500 P - 400Vx3	10125	58,25	5010	47,47	5110	51,62	5400	3,00	6,5	65	214
L 3000 P - 400Vx3	12150	72,04	8670	59,19	8990	62,72	6250	3,60	7,8	66	260
XL 1000 P - 400Vx3	5365	24,09	2470	20,07	3760	21,69	2360	1,76	3,2	64	94
XL 1500 P - 400Vx3	8050	36,41	1370	32,22	4720	36,72	8670	2,64	4,8	65	137
XL 2000 P - 400Vx3	10730	52,85	3450	44,26	5420	49,28	6590	3,52	6,4	66	183
XL 2500 P - 400Vx3	13415	68,89	6750	56,68	7000	61,53	7590	4,40	8,0	67	227
XL 3000 P - 400Vx3	16095	85,26	11700	70,68	12310	76,01	8800	5,28	9,6	68	278

Water heated:

2x1" for 1000 and 1500, 2x1 ¼" for 2000 and 2500, 2x1 ½" for 3000.
 Connection pipes P86, P64 and P54 are female (male if lateral pipes).
 P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

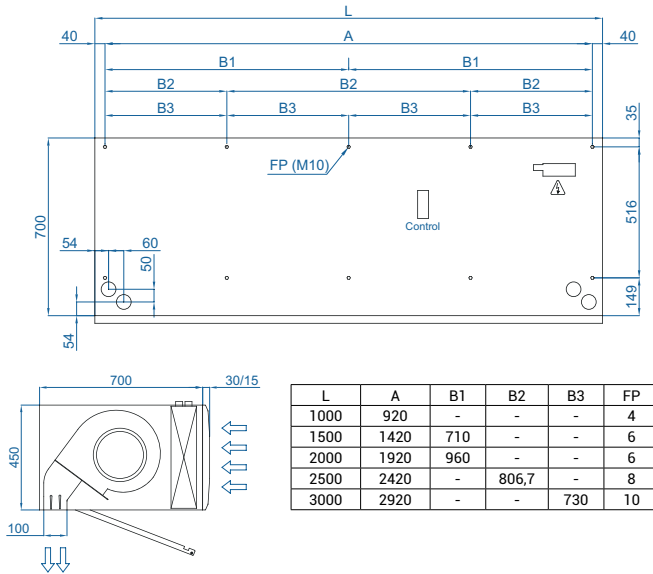


Selection program

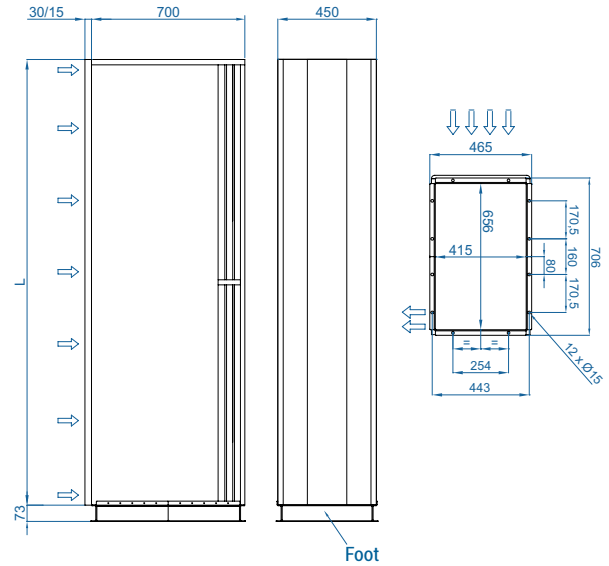


Dimensions

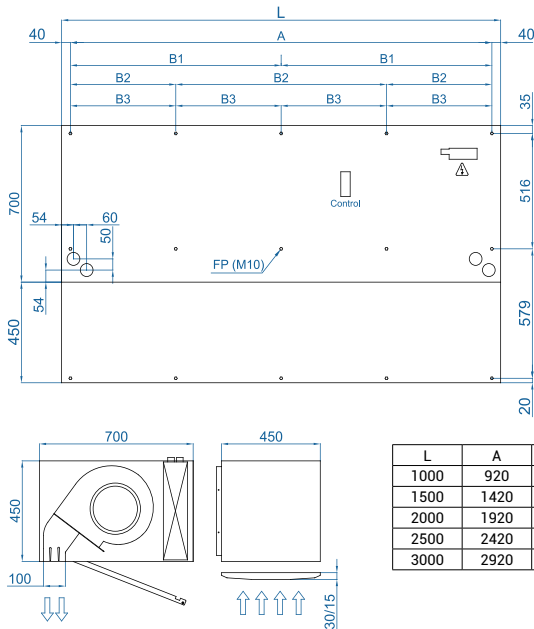
Horizontal installation



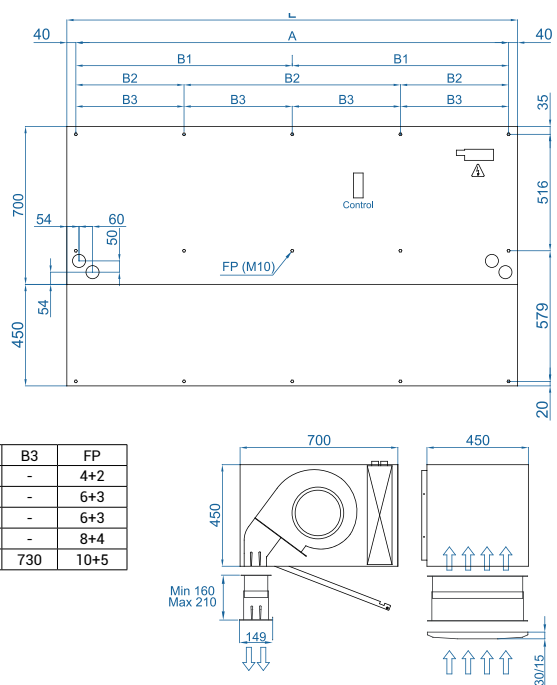
Vertical installation



Inside ceiling surface mounting



False ceiling invisible mounting

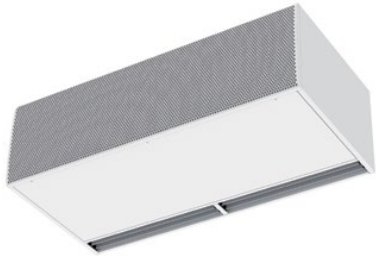


CAD drawings, BIM files, installation manuals and other documentation





Installation Configurations



Free hanging mounting



With outlet kit



With inlet kit



With plenum



With plenum and kits



With INS outlet kit

Optional Accessories

Inlet Grille



Industrial Grille
(Perforated)

✓ Included



Decorative Grille
(Micro-perforated)

Supports and installation



Wall rail support
SPWR



Silentblock supports
SPANG-SIL / SLB



Suspension cables
SPCT



Foot support
SPF-LXL
(Galv. / SS)



Joining kit
SPJ-LXL
(Galv. / SS)



Kit INS
(Galv. / SS)

Control



ADVANCED PRO
✓ Included



IR Control
✓ Included



RJ11 Cable
✓ Included



CLEVER PRO

Filters



Removable
prefilter G2

Sensors and valves



Magnetic door contact



Mechanical door contact



External Temperature



Solenoid valve



Valve 3 ways







Proportional valve



Anti-freezing sensor

MAINTENANCE INSTRUCTIONS

	For safety, before cleaning, stop the curtain through the controller and disconnect the device from the current.
 	Do not open the service door (risk of electric shock and entrapment in the fans). Repairs must be carried out exclusively by authorized personnel.
	The inside of the device must not be cleaned with water or steam.

Indicative periodicity of maintenance

N° Action	Action	Frequency
1	Cleaning of the suction grill	2 weeks (microperforated) / 4 weeks (perforated)*
2	Exterior cleaning	Annual
3	Interior cleaning	Half yearly (perforated) / Yearly (microperforated)
4	Internal inspection	Annual (depending on functioning, installation, etc)
5	Consumption and auditory control	Annual (depending on functioning, installation, etc)
6	Water heating maintenance	Half yearly (quarterly recommended)
7	Electrical heating maintenance	Half yearly (quarterly recommended)

*+/- 1 week if it is a polluted ambient, automatic door, always open or exterior vs interior installation

Inlet grille cleaning

The suction grill prevents the entry of objects into the internal elements. It is a good idea to periodically check that the suction grille is free of any object that could prevent air from entering (plastic bags, paper, etc.).

It is recommended to clean the suction grill monthly. In addition, it is important to make sure that the air curtain is off, otherwise the mixture between the dust and a damp cloth would form a paste of dirt that could damage the fan rotor when it sucks in the air or clog the water coil. An annual cleaning of the discharge area must be carried out.

Exterior cleaning

Wipe the entire outer surface of the air curtain (except the suction grille) with a damp cloth to trap dust particles. In addition to the damp cloth, neutral soaps that do not contain acids or are caustic can be used.



Interior cleaning

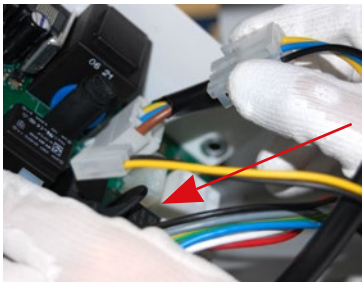
It is recommended to clean the inside of the unit with a vacuum cleaner at least once every 2 years. (*) It is recommended to clean the inside of the equipment frequently with the help of a vacuum cleaner, especially before the arrival of winter. (*)

(*) These periods are indicative depending on the conditions of each installation. In places with a high number of suspended particles, it is desirable to increase the frequency of interior cleaning.



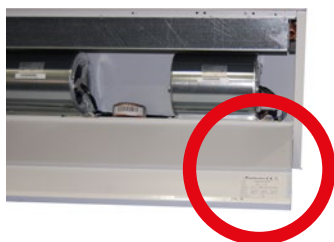
Internal components visual inspection

Check that the regulation board(s) have not suffered any damage and that they are securely fastened to the equipment frame. Make sure that the board and internal wiring connectors are still well connected. Check that the fans do not move from their mountings and check that the turbines have no impediments to rotate freely (turn it by hand, first turn off the device).



Air curtain consumption and auditory control checking

Write down the consumption value of the fans that appears on the product label (located on the inside of the service door). Give power to the curtain and with the help of an ammeter, check that the electrical consumption of the curtain at maximum speed is between 110% and 85% of the value indicated on the label. Check that all fans blow air. Keep the curtain at full speed for a few minutes and listen for abnormal noises from the curtain.

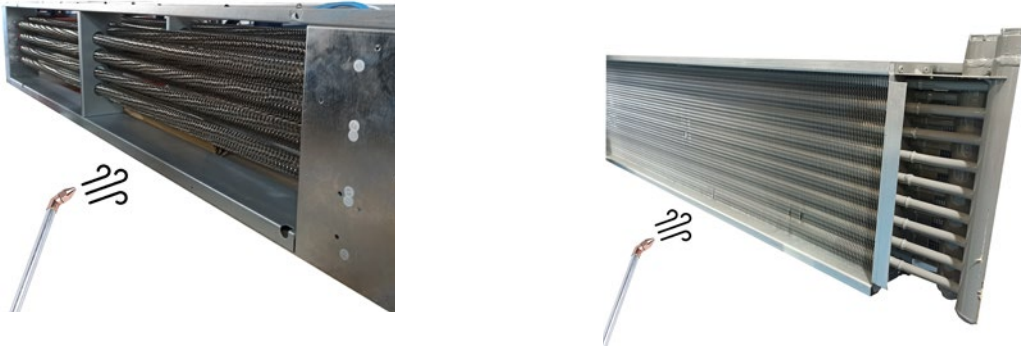


Heating maintenance

To ensure good heat transmission in the air curtain exchanger, it is recommended to check the heating coils as follows:

Coil cleaning

With both electric coils and water coils, the coil must be cleaned periodically with pressurized air.



Water coils

Check the inlets and outlets of the water tubes to ensure that there are no fluid leaks.



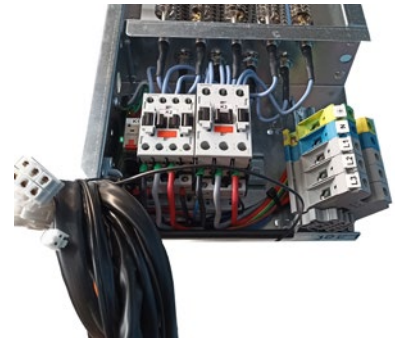
If a water leak has been detected in the battery, possible corrosion problems in both the battery and the curtain components should be checked.



Electrical heating

Check that no cable has been disconnected from the battery circuit:

To verify the correct operation of the component, check the battery consumption per heating stage. Theoretical consumptions are shown below:



Air curtain size	Heating stage	XL Models							
		Power by size and heating stage (kW)				Theoretical consumption (A) 400Vx3			
		Power 1		Power 2		Power 1		Power 2	
		ps1	ps2	ps1	ps2	ps1	ps2	ps1	ps2
1000	1	6	-	10	-	8,7	-	14,4	-
	2	13	-	15	-	18,7	-	21,7	-
	3	19	-	25	-	27,4	-	36,1	-
1500	1	8	-	15	-	11,5	-	14,4	-
	2	22,5	-	-	22,5	32,5	-	-	36,1
	3	30,5	-	15	22,5	44	-	14,4	36,1
2000	1	12	-	20	-	17,3	-	28,9	-
	2	-	30	-	30	-	43,3	-	43,3
	3	12	30	20	30	17,3	43,3	28,9	43,3
2500	1	20	-	20	-	28,9	-	28,9	-
	2	-	30	-	40	-	43,3	-	57,8
	3	20	30	20	40	28,9	43,3	28,9	57,8

Air curtain size	Heating stage	XL Models							
		Power by size and heating stage (kW)				Theoretical consumption (A) 400Vx3			
		Power 1		Power 2		Power 1		Power 2	
		ps1	ps2	ps1	ps2	ps1	ps2	ps1	ps2
1000	1	10	-	10	-	14,4	-	14,4	-
	2	15	-	-	25	21,7	-	-	36,1
	3	25	-	10	25	30,3	-	14,4	36,1
1500	1	15	-	15	-	14,4	-	14,4	-
	2	-	22,5	-	37,5	-	36,1	-	54,2
	3	15	22,5	15	37,5	14,4	36,1	14,4	54,2
2000	1	20	-	20	-	28,9	-	28,9	-
	2	-	30	-	50	-	43,3	-	72,2
	3	20	30	20	50	28,9	43,3	28,9	72,2
2500	1	20	-	20	-	28,9	-	28,9	-
	2	-	40	-	50	-	57,8	-	72,2
	3	20	40	20	50	28,9	57,8	28,9	72,2

REPAIRS AND REPLACEMENTS

**Assembly and electrical connection must be carried out exclusively by specialized professionals and in compliance with these instructions.
Before carrying out any repair, it is necessary to:**



- **Notify staff and indicate that work is being done.**
- **Disconnect the current and protect the circuit breaker.**



- **Be sure there is no voltage in the unit.**



- **Be sure the fans have stopped.**
- **Use only original spare parts.**



For manipulation safety, being it assembling, transport or maintenance duties it's a must to wear the correct individual protection equipment recommended. Those being gloves, insulating shoes, goggles and helmet.



CODE	COMPONENT	COMPONENT REFERENCE	AIR CURTAIN MODEL
AIRCON12655	AC Windbox 5 speed PCB	PCB-5SA-AIR-RJ11	L - XL : Air and secondary PCBs
AIRCON12660	AC Windbox 5 speed electrical battery PCB	PCB-5SA-ELE-RJ11	L - XL : Electrical
AIRCON12663	AC Windbox 5 speed water 0-10V PCB	PCB-5SA-WAT/0-10-RJ11	L - XL : Water
AIRCON12666	AC Windbox 5 speed water 230V PCB	PCB-5SA-WAT-RJ11	L - XL : Water
AIRSEV07013	4 poles AC centrifugal fan	DZAE 9/7-4	L: All models
AIRSEV07023	4 poles AC centrifugal fan	DZAE 9/9-4	XL: All models
ELACCO33005	ADVANCED PRO Control RJ11	CON-LCD-RJ11	All models

Service door opening

Windbox L, XL

To open the service door, the following steps must be followed:

1. Using a screwdriver, holding the door, remove all screws that hold the door.



2. Open the door carefully. In case of a curtain with plenum or suction and discharge kits, the lever must be made on the side of the door where the door has been made to facilitate the entry of a flat screwdriver.

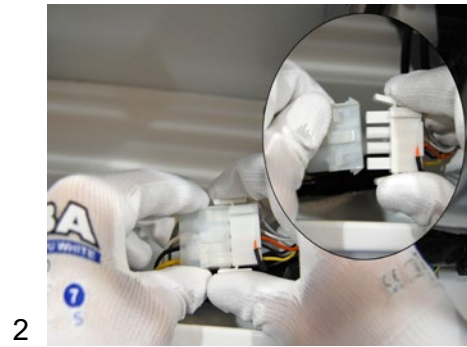


Fan replacement

Before changing the fan, notify and indicate that it is working, disconnect the power supply, making sure that there is no voltage and that the fans have stopped.

L: Then identify and loosen the fan wires. Remove the fan by loosening the fixing screws and mount the replacement fan following the process in reverse order.

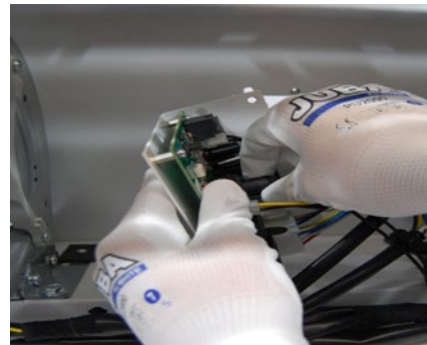
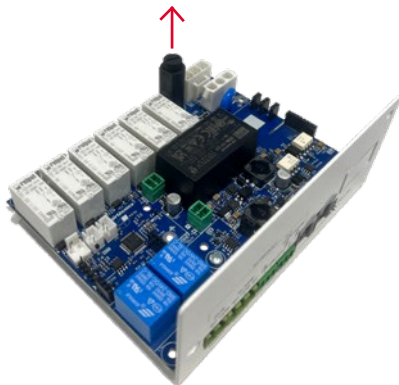
XL: Then identify and loosen the fan wires. Remove the flange screws (photo 2) to remove it from the curtain (photo 1), remove the fan screws and mount the replacement fan in reverse order.



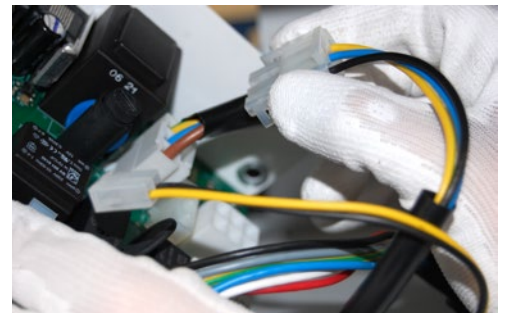
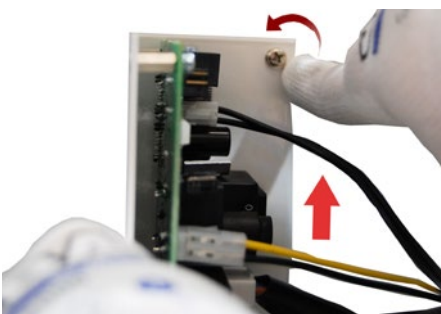
Replacement of the power board or fuse

Before changing the power board or fuse, notify and indicate that work is being done, disconnect the power supply, make sure that there is no voltage and that the fans have stopped.

Fuse changing: open the service door and remove the fuse by hand or with the help of a screwdriver by pressing towards the board, turning it counterclockwise. In some cases, it is recommended to unscrew the PCB.



Power board change: open the service door and unscrew the power board from the inside of the air curtain to remove the plate and carry out the necessary repair.



Recommendation: installation with silentblocks

To reduce the sound level and the vibrations of the air curtain, it is recommended to carry out an installation with silentblocks:



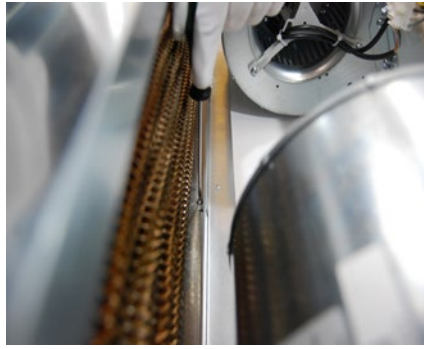
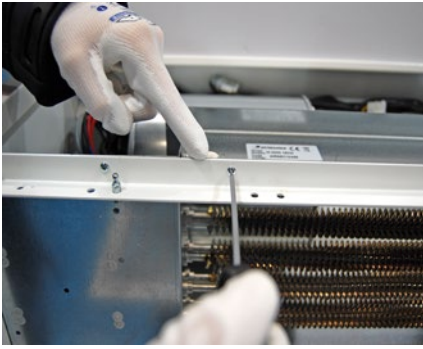
Heater replacement

Water coil: close the building's water inlet and outlet valves up to the air curtain. Open the suction grille and drain the water coil with the drain plug of the main collector as shown in the photograph and disconnect the coil from the installation.

Warning! The curtain is not ready to work in cold mode. Do not circulate cold water through the battery. Before changing the battery, notify and indicate that you are working, disconnect the power supply, make sure that there is no voltage and that the fans have stopped. Before removing the screws that secure the water coil:



To remove the water coil, unscrew the fixing screws as shown on the next page:

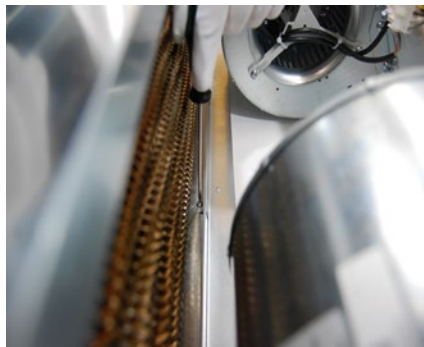


Electrical heater: disconnect the power supply from the heater itself.



Windbox L, XL model

Water and electric coil fixing points: door closing angle and interior angles.



Air curtain size	N° angle fixing points
1000	1
1500	2
2000	3
2500	4
3000	4 - 5

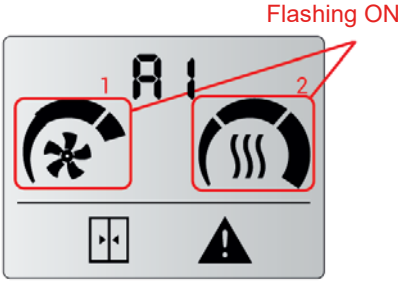
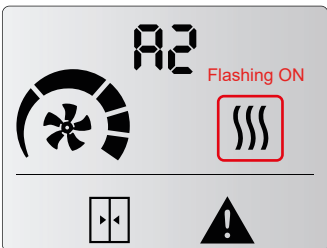
TROUBLESHOOTING

More than 95% of the claims occur **during the start-up** of the equipment and **are due to installation errors**. Reviewing the following points solves more than 90% of the incidents:

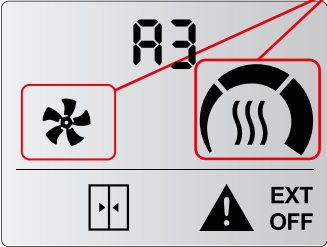
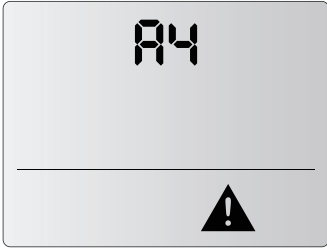
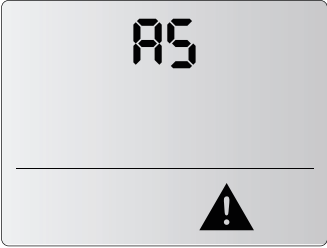
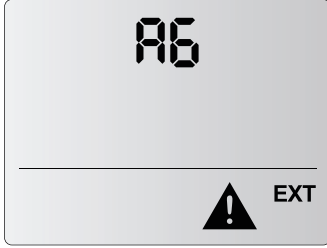
A) RJ11 cable manipulated: the cable connecting the control to the air curtain is an 4-way RJ11 cable. If it is manipulated (cut or remove the connector) and spliced backwards, the shade will not work properly and may also damage the electronics. Only re-splicing the connector correctly solves the problem (connection diagram).

B) Incorrect power supply. The supply of the air curtain depends on the type of current available and the type of heating of the equipment. Check bounding jumper if required, according to the wiring diagram.

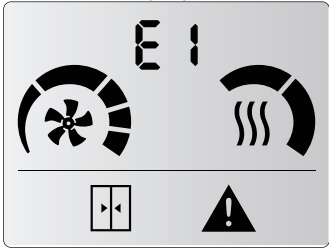
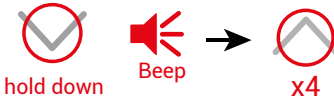
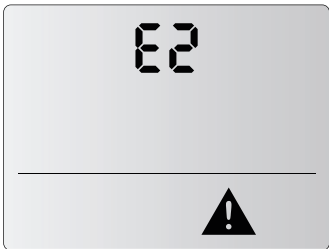
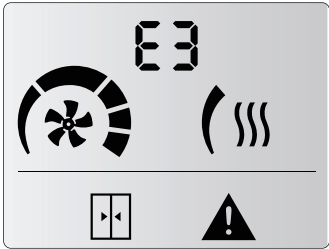
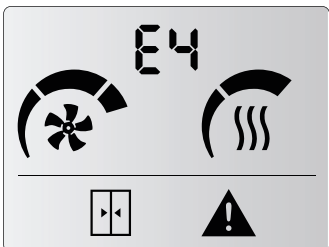
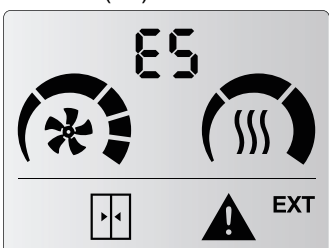
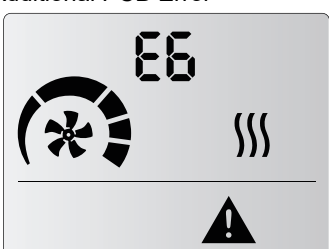
Most commons problems and solutions		
Symptom	Problem	Solution
No light on LCD control	Is the RJ11 cable the original without splices or shortening?	Change the cable or reconnect it correctly.
	Does the current reach the connection box?	Correctly connect the terminals of the connection box: Between L and N there must be 230V. If the curtain has a three-phase electric battery, there must be 400V between terminals L1, L2 and L3.
	Is the fuse on the board in good condition?	Check the fuse and change it if necessary (type T, slow action).
The heating does not work	Does the three-phase current reach the connection box?	Check installation.

Alarms Lists		
Comment	Problem and Alert	Solution
Alarms will remain fixed on the display because it affects to the device functioning. Some lights on the remote control flash and an alert sign will appear in the display. Alarms will be shown as an "A" followed by a number to indicate the code of the alarm.	Overheating (only electrical heated) (A1) 	When the unit goes into overheating, it starts a process to cool it down. The ventilation starts to rise up to the maximum each 2 minutes. If overheating persists, the heating is turned down each 2 minutes until it is switched off. If it is still not solved, after 2 minutes heating is blocked and alarm A2 is activated (check A2).
	Heating blocked (only electrical heated) (A2) 	The heating is blocked and switched off. It is the overheating safety program. Service must check the unit and fix the problem to avoid internal damages. Once solved, reset the unit.

Alarms Lists

Comment	Problem and Alert	Solution
<p>Alarms will remain fixed on the display because it affects to the device functioning. Some lights on the remote control flash and an alert sign will appear in the display. Alarms will be shown as an "A" followed by a number to indicate the code of the alarm.</p>	<p>Antifreezing (only water heated) (A3) Flashing ON</p> 	<p>When ambient temperature is below anti-freezing temperature set (5°C), the valve opens to protect the water coil and the fan stops functioning. It can be also activated by external anti-freezing sensor connected to the PCB or a discharge temperature sensor installed on the air curtain PCB.</p>
	<p>Communications error (A4)</p> 	<p>No unit found. When this error appears, the user can do a scan to find the PCBs pressing the ON/OFF button during 10 seconds.</p>
	<p>Inappropriate device (A5)</p> 	<p>Wrong combination of 2 different heatings (electric with water or heat pump) It is only possible to mix unheated units with one type of heating units.</p>
	<p>Fire Alarm (A6)</p> 	<p>Stops and locks the unit. To unlock it, the power supply must be switched off. It is activated with DIN3 digital IN on the control unit.</p>

Error Lists

Comment	Problem	Solution
<p>Errors will not remain on the display, they will alternate with the ambient temperature. Unit operation remains working normal or adapted. Some lights on the remote control flash and an alert sign will appear in the display. Errors will be shown as an "E" followed by a number to indicate the code of the error.</p>	<p>Filter/maintenance (E1)</p> 	<p>Indicates filter change or cleaning / maintenance. This alarm is activated by time counter. It does not affect operation. To reset the counter:</p>  <p style="text-align: center;">hold down Beep → x4</p>
	<p>Missing device (E2)</p> 	<p>One of the working units is not found. Please consult service to check the unit. To reset, turn OFF the power or scan the other PCBs by pressing the ON/OFF button during 10 seconds. Other devices remain working normally. Check the connections between units to see that none is wrongly connected.</p>
	<p>Missing temperature sensor (E3)</p> 	<p>Missing temperature sensor or temperature out of range. Unit operation adapts and remains working according to inbuilt room temperature sensor.</p>
	<p>Fan Error (E4)</p> 	<p>Some fan has stopped. Check the unit. Unit operation remains normal. Not available in 2-speed range.</p>
	<p>External Alarm (E5)</p> 	<p>Indicates an external alarm. Unit operation remains normal. Only programmable with CLEVER PRO control (consult CLEVER PRO Manual).</p>
	<p>E6 - Additional PCB Error</p> 	<p>Additional PCB inside the same air curtain has an error or is disconnected. In case of electrical heater, heating stops.</p>

DECLARATION OF CONFORMITY



Declaration  of conformity / Declaración  de conformidad

Manufacturer **Motors i Ventiladors S.L. (AIRTÈCNICS)**
Fabricante **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, School Plus Optima, 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 armonizadas en particular

LVD: EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019
EN 60335-2-30:2009 + A11:2012 + A1:2020 + A12:2020

EMC: EN 61000-3-11:2020
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
Name / Nombre
Position / Cargo

24/01/2025
Jordi Hierro
Technical Manager / *Director Técnico*


MOTORS I VENTILADORS, S.L.
ESB58967183 - C/ Conca de Barberà, 6
08211 Castellar del Vallès
Tel. 937159988 - Fax 937159989

**UK
CA**

UK Declaration of conformity

Manufacturer **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

Air Curtains

with models

Minibel, Optima, Optima Swicth, Recessed Optima, Optima Wireless, Recessed Optima Wireless, Optima K, 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, Windbox L-XL, Duojet, Triojet System.

is/are developed, designed and manufactured in accordance with the following regulation(s)

Electrical Equipment (Safety) Regulations 2016 No. 1101

Electromagnetic Compatibility Regulations 2016 No. 1091

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 No. 3032

The Ecodesign for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019 No. 539

applying the following harmonized standards in particular

LVD: BS EN 60335-1:2012+A2:2019
BS EN 60335-2-30:2009+A12:2020

EMC: BS EN IEC 61000-3-11:2019
BS EN 61000-3-12:2011
BS EN IEC 55014-1:2021
BS EN IEC 55014-2:2021

RoHS: BS EN IEC 63000:2018

Date
Name
Position

16/10/2023
Jordi Hierro
Technical Manager



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08211 Castellar del Vallès
Tel. 937159988 - Fax 937159989

IDENTIFICATOR



Model <small>Modelo</small>	WINDBOX M 2000 P86		
Airflow <small>Caudal</small>	3320	m3/h	
Blowers <small>Ventiladores</small>	3,8 A	0,856 kW	230 V/50Hz
Heating			
<small>Calefacción</small>	<small>Temperature</small> Temperatura	<small>Capacity</small> Capacidad	<small>Water Flow</small> Caudal Agua
Water Coil <small>Bateria Agua</small>	80/60 °C	20,65 kW	900 l/h
Electric Heater <small>Bateria Eléctrica</small>	kW		
Serial Number <small>Número de Serie</small>	2022 01 21 / 113.864		

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.



AIRCOR15698 113864

WINDBOX M 2000 P86 www.airtecnics.com

GUARANTEE

Your air curtain is guaranteed for a period of two years 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 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:

Mail:

Seller data:

Name:

Address:

Country:

Phone:

Mail:

Buyer signature and stamp

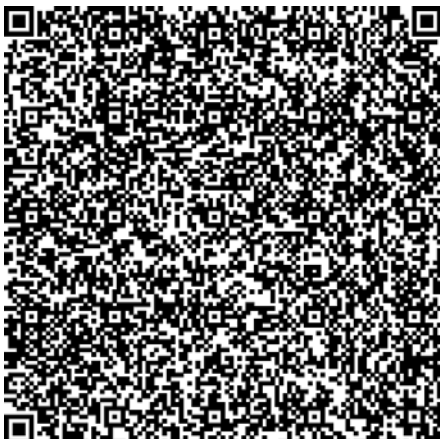
Seller signature and stamp



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

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AIRDOM05880-R1(06/25)

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