FRIAX INDUSTRIE

Installation Manual

MPCG Vintage







La FRENCH FAB

LAURÉAT
Réseau Entreprendre
SAVOIE

The FRIAX INDUSTRIE ranges are constantly evolving to always better protect the wine. The information in this document may change without prior notice to follow our quality commitment.

EN-NT-MPCG-0925

Warning

This product contains hermetically sealed flammable R290 gas



Fire risk / flammable materials

Read the manual carrefully before using the device and keep it for futur reference.



This symbol indicates that the installation manual should be read carrefully.



This symbol indicates that a technician must handle this equipment in referring to the installation manual.



This symbol indicates that information are available, such as the manual operating instructions or installation manual.

Improper installation or use may result in injury to persons,
property damage, and voiding of the manufacturer's warranty. Non-compliance with instructions
safety and local standards in force during installation or use
manufacturer from any liability.

- Be sure to install the device in a place that is sheltered from bad weather and frost-free.
-- The R290 refrigerant gas complies with European environmental directives.
- This appliance contains approximately 120 to 150 g of R290 refrigerant gas - make sure to install it in a sufficiently ventilated room.
- The equipment must be installed in a room with no permanent source of fire, such as for example an open flame, a combustion appliance, an electric heater, etc.
- The stagnation of possible refrigerant gas leaks in unventilated rooms may result in a risk of fire or explosion if the refrigerant comes into contact with a source of ignition.
- Interventions on a refrigeration circuit operating with R290 must be the subject of a prior safety check to minimize the risk of an accident.
- Be aware that some refrigerant gases may be odorless.
- Any intervention on a refrigeration circuit must be carried out by an authorized professional by an accredited organization certifying the competence to handle refrigerant fluids.
- The device must be permanently free of any obstruction to ensure proper operation. operation and reduce safety risks.
- Do not puncture any component of the refrigerant circuit.
- Exercise caution when handling the equipment to avoid malfunction.
- The device must be installed in accordance with local wiring regulations.
- Make sure that the characteristics of the appliance are compatible with those of the electrical installation.
- Make sure the power outlet is grounded.
- Do not use the device if it is damaged
- **Do not connect the power supply until all installation is complete.**
- Always switch off the appliance and disconnect it from the mains for cleaning and maintenance.
- Do not put your hands or objects in the air inlets and outlets.
- Do not attempt to repair the device yourself.
- Any use and/or modification not approved by the manufacturer may be dangerous for your safety and your health.

- This appliance should not be used by children.
- The user must understand and be aware of the potential dangers associated with the use of the device.
- Only use the means and/or tools recommended by the manufacturer for defrosting or cleaning.

Your Friax air conditioner

THANK YOU for trusting Friax Industrie for the preservation of your wines. Our air conditioners are designed above all for the comfort of wine, but do not overlook your comfort. Once installed in the cellar, you will forget it... It is much later, while tasting a good bottle, that you will appreciate the perfect mastery of the aging conditions that it took to allow your wine to express itself fully. ... after all this time !

Please read this user manual carefully. It will allow you to understand and master the operations to install and configure your air conditioner.

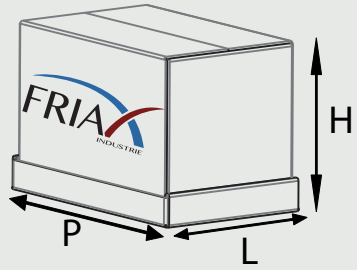
Sudden changes in temperature affect wine by causing random aging and irreversible degradation of aromas. Cellars that are too humid degrade the labels, partially reducing the value of the precious bottles. Cellars that are too dry deteriorate the corks, allowing air to enter the bottles.

Air conditioning to control the atmosphere of your cellar is an essential element in preserving the investment that wine represents. Your Monobloc Friax is an assurance of the longevity of bottles over time.

Material reception

We invite you to examine the package upon receipt to detect any damage to the box or missing items. It is essential to note your remarks concerning the condition of the package on the carrier's delivery note: they will be used in the event of damage observed during unpacking.

You will find 2 packages composed as below.
1 package consisting of:
- 1 x Monobloc.
- 1 x Black plexiglass front.
- 1 x remote control box with its probe.
- 4 fixing brackets.
- 1 Protective grille for ducted facade.
- 1 x power cords.
- 1 x drain tube.
- 1 x bag of accessories.



Dimensions hors palette:
800mm x 600mm x 1000mm (P x L x H)
60kg

Add 300mm to the Height for the addition of a 2nd facade

1 package consisting of:
- 1 x ducted facade.
- 1 bag of accessories.













Summary

Technical data / Principle of operation 5

Dimensions 6

Installation 7-11

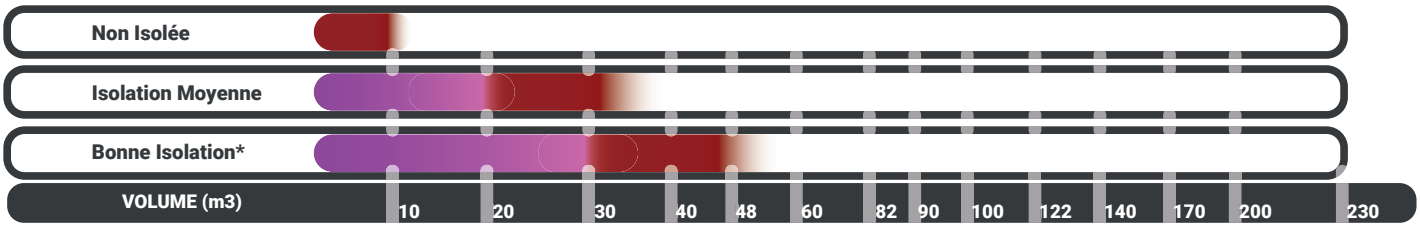
Installation Ducted facade - Fan speed adjustment 12-17

Electrical diagram and warning 18

Air conditioner maintenance 19

Power Information

In order to select the right power for the Friax wine cellar air conditioner, it is essential to take into account the thermal balance of the room to be air-conditioned to avoid undersizing the device and air-conditioning a cellar which will be energy-intensive.





** Isolation murs et plafond entre 60 et 80 mm de Polyuréthane*

Modèle 30 Modèle 48

More details : www.friax.fr/selection/

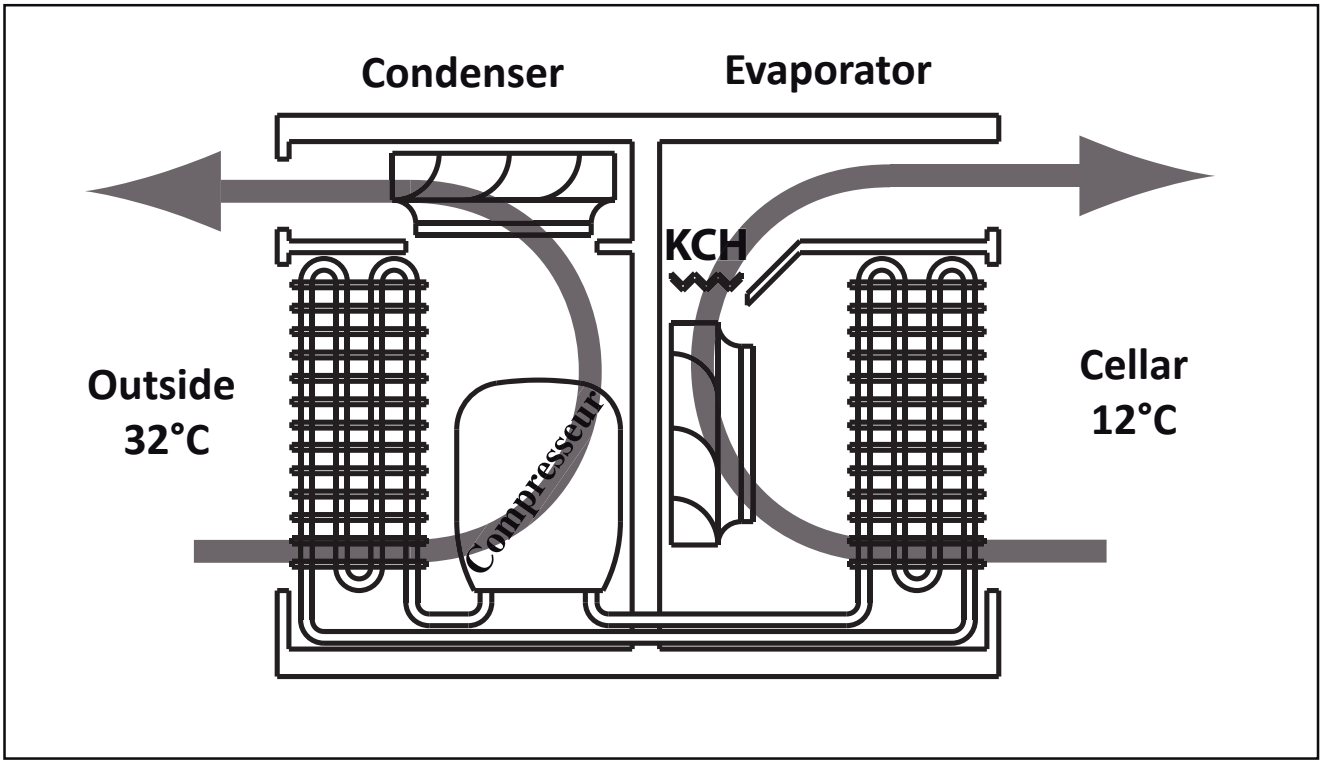
* Insulation of the ceiling and the walls between 60 and 80 mm of PU for a device installed in the wall of the cellar

** under the following conditions: 12°C in the cellar / 32°C outside.

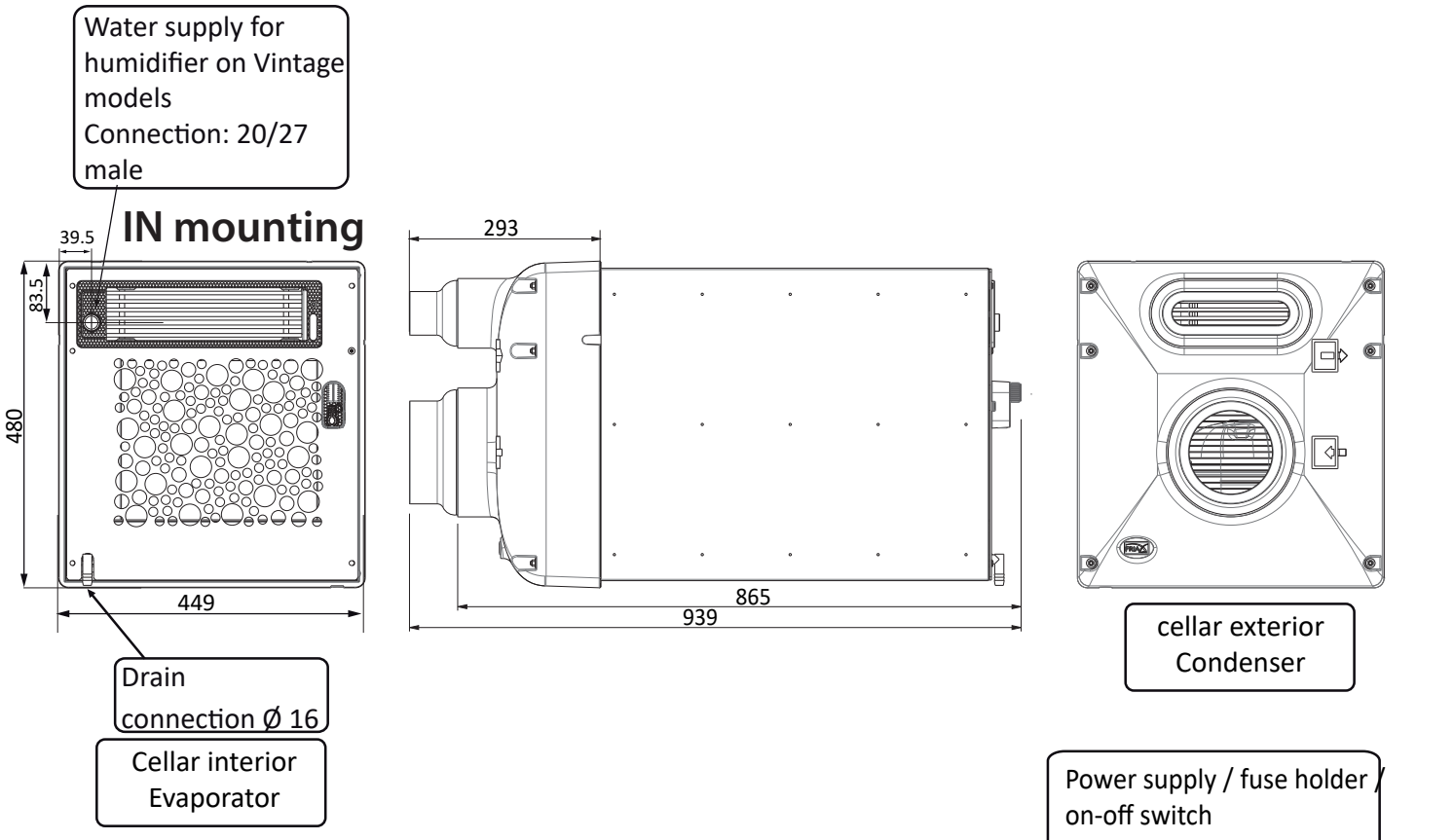
Technical data

		R290	
T cellar = +12°C - Ext = 32°C		**30**	**48**
Indicative volume to be conditioned	m3	30*	48*
Cooling capacity	W	780**	1100**
Heating capacity	W	800	800
Power supply	V	230V / 50Hz	230V / 50Hz
Power absorbed cold / hot	W	484 / 895	651 / 895
Intensité Max Mode Froid / Chaud	A	5.4 / 4.3	7 / 4.3
Cellar side airflow	m3/h	400	400
Outdoor side airflow	m3/h	405	510
Power cable length	m	2	2
Outdoor operating temperature	°C	32	32
Setting the cellar temperature	°C	8 - 16	8 - 16
Gas charge	gr	120	150
Weight	kg	45	49

Principle of Operation



Dimensions

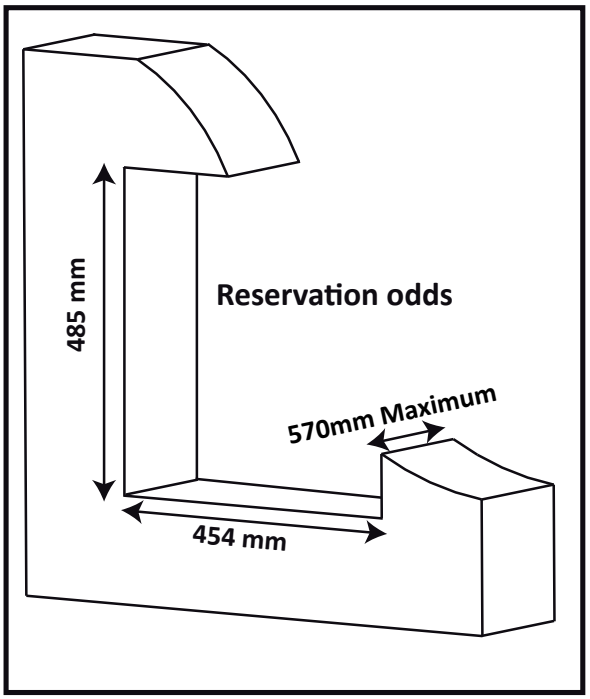

Water supply for humidifier on Vintage models
Connection: 20/27 male
IN mounting
39.5
83.5
480
449
293
865
939
Drain connection Ø 16
Cellar interior Evaporator
cellar exterior Condenser
Power supply / fuse holder / on-off switch
OUT mounting
500
470
293
824
898
IN/OUT mounting
502
470
581
1021
1170

Installation

Configuration Mounting IN duct side condenser

Installation through the wall

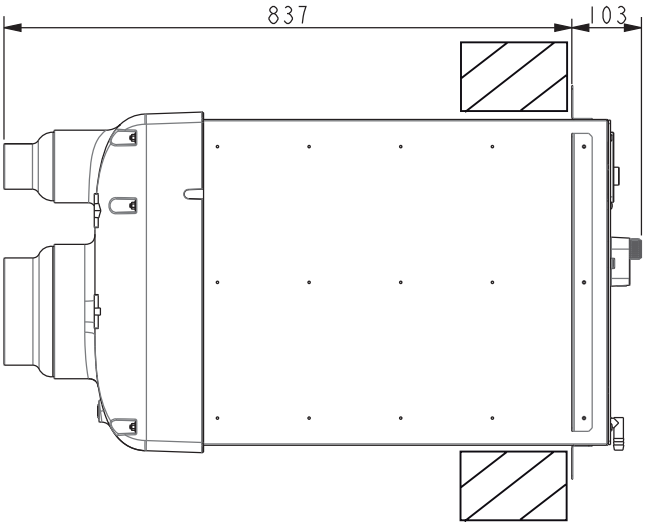
- The air conditioner must be installed in an open place.
- In order to have a perfect diffusion of the air, it is advised to install the air conditioner in height.
- Any natural and mechanical ventilation is to be avoided in the cellar.
- Ensure that the hot air is expelled into a ventilated and sheltered room.
- Check the solidity of the wall on which the appliance will be fixed.
- Respect the wall reservation dimensions.
- Never place obstacles to the blowing and suction of the appliance fronts.



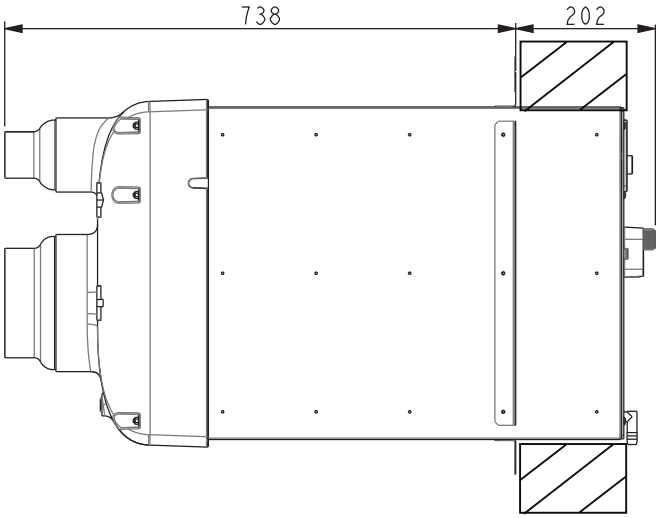
Setup 1,
Angle inside the cellar

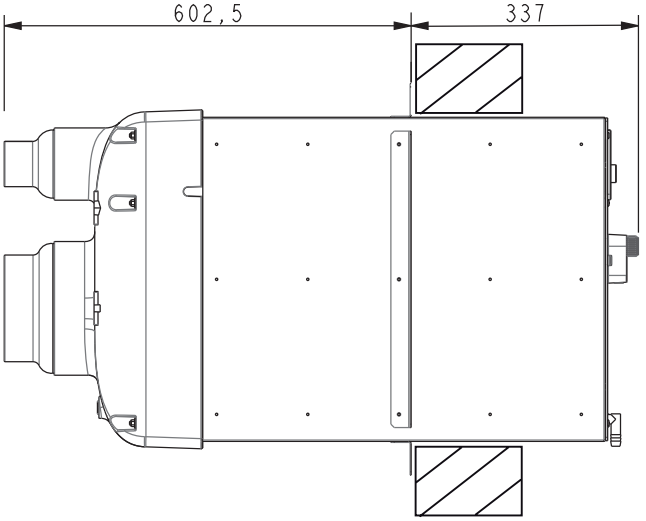
The body of the monobloc is designed to be fixed at 5 different recess depths.





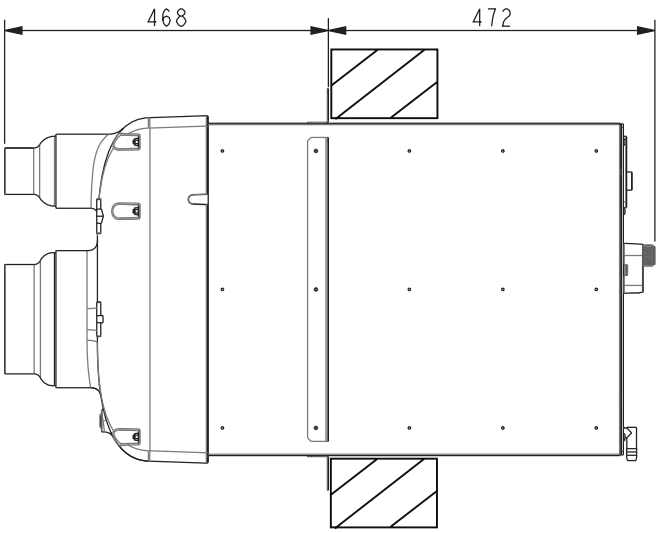
Setup 2,
Angle outside the cellar



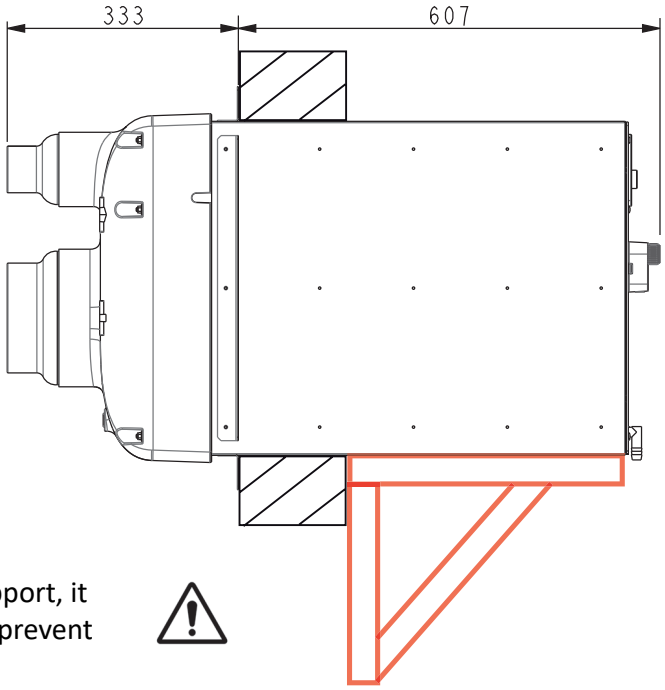


Configuration Mounting IN duct side condenser

Setup 4,
Angle outside the cellar



Setup 5,
Angle outside the cellar

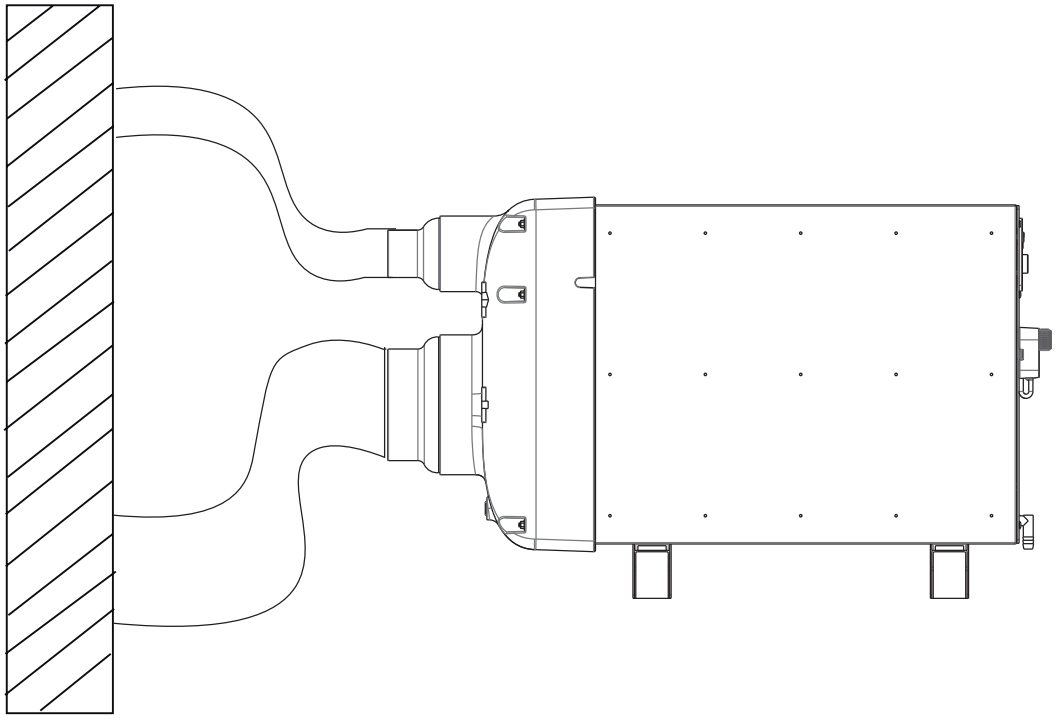


In some positions and depending on the support, it may be necessary to add reinforcements to prevent the device from tipping

Configuration Mounting IN duct side condenser

Installation on KS2M support inside the cellar.

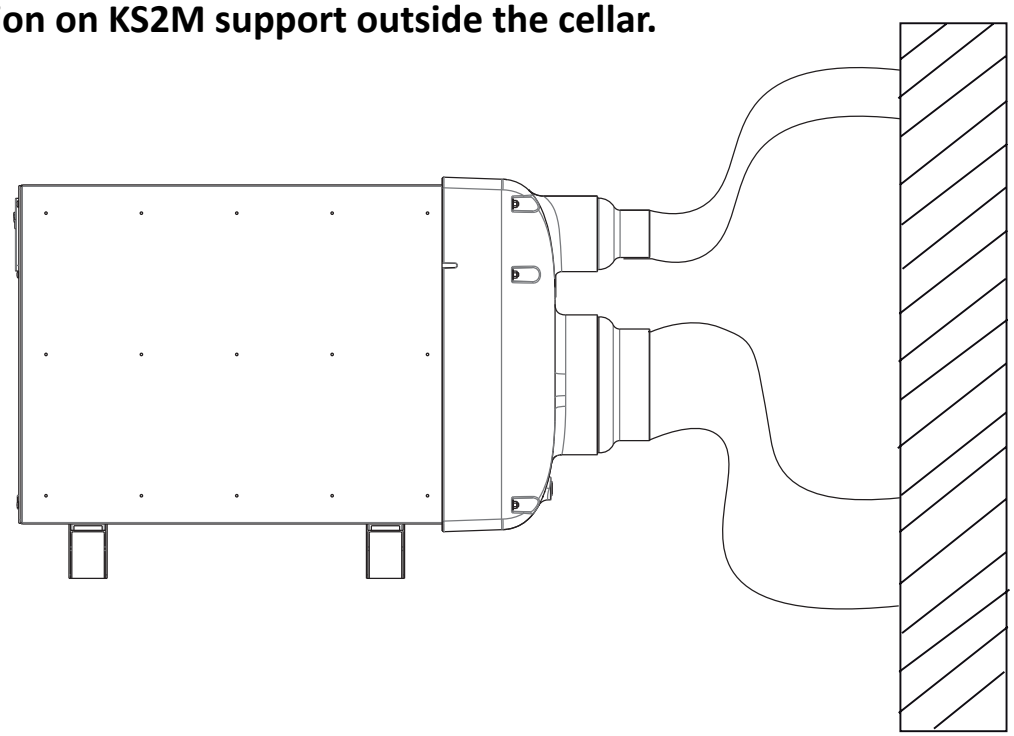
Side
Outside



Installation

Configuration Mounting OUT duct side evaporator

Installation on KS2M support outside the cellar.

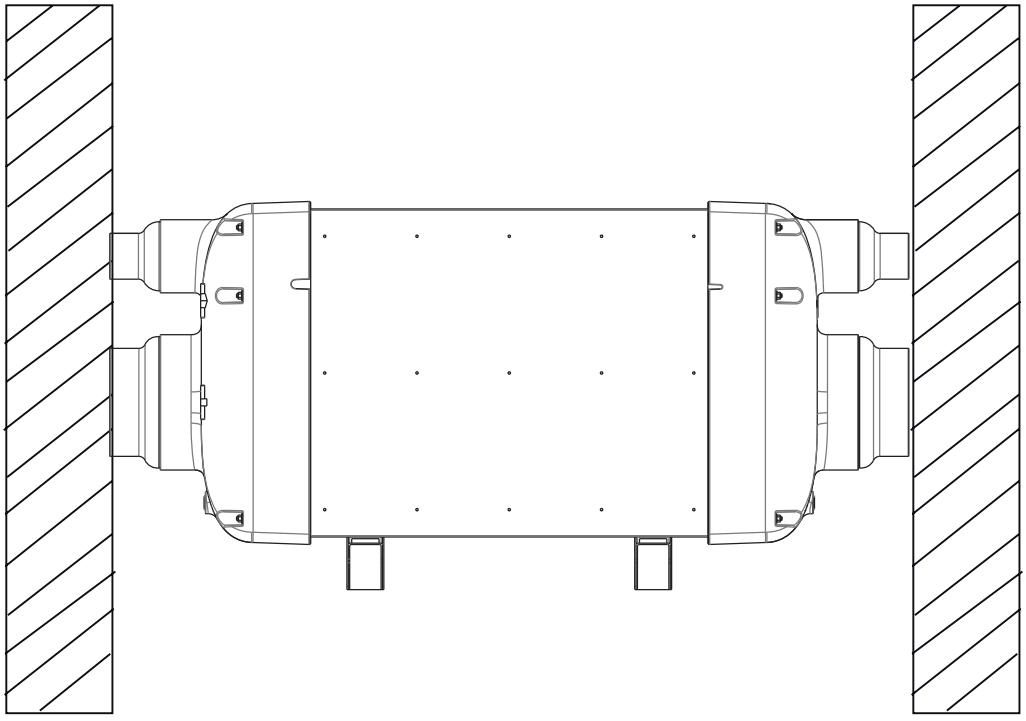


Cellar side

Configuration Mounting IN - OUT ducting on the evaporator / condenser side

Installation on KS2M support outside the cellar.

Side
Outside



Cellar side

Installation

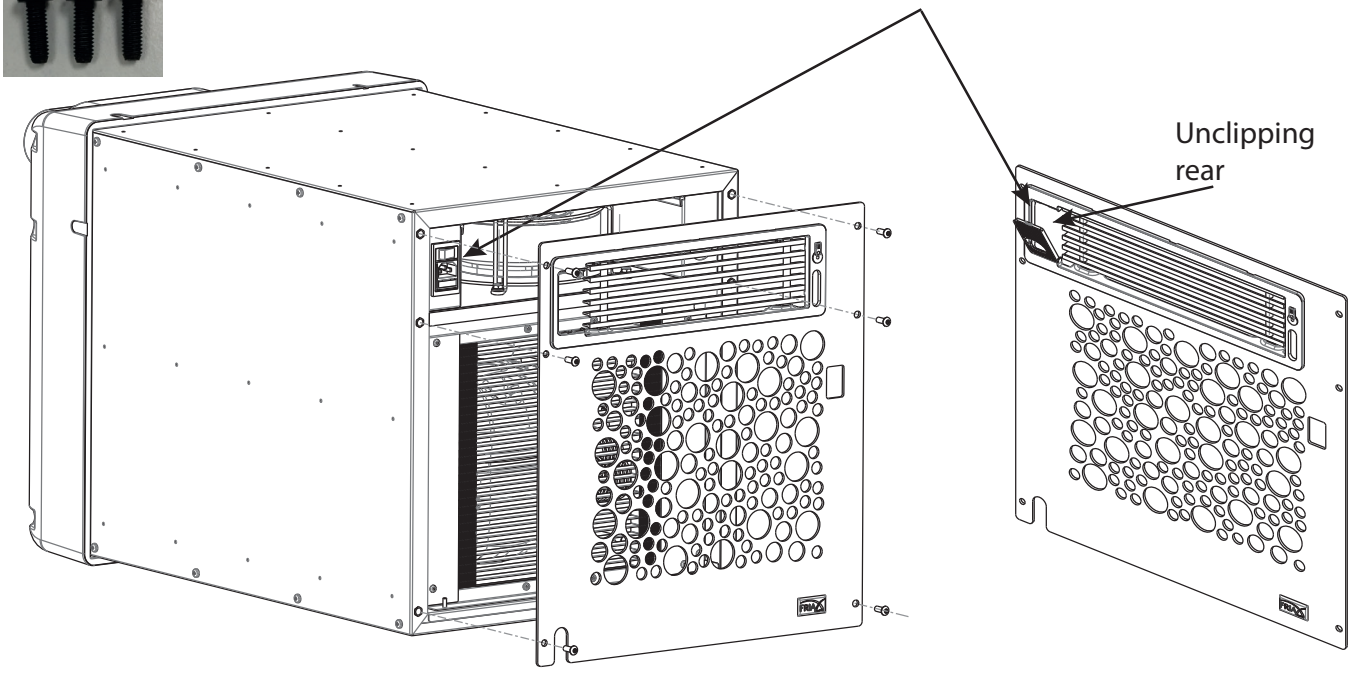
After having chosen the installation configuration of your monobloc, you will need to install the front panel in black plexiglass according to your configuration, in IN - OUT configuration it will be of no use to you, in this case keep it aside.

1-Installation on the condenser side in OUT mounting.



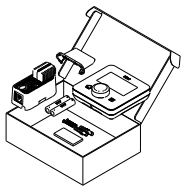
screws to use

In this configuration unclip the cache passage of the solenoid valve, to let the passage of the switch.

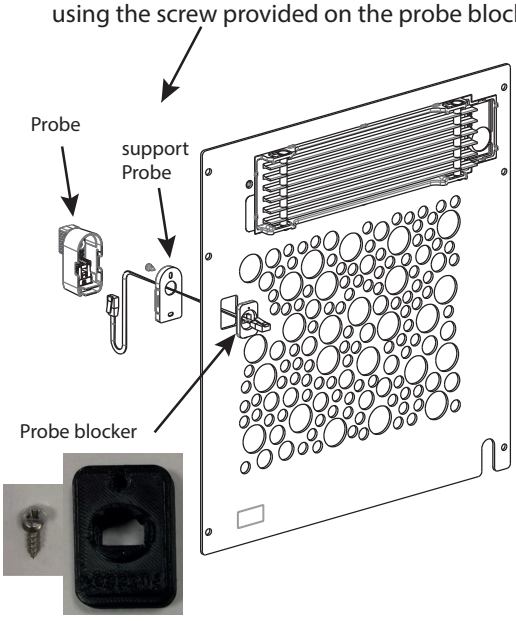


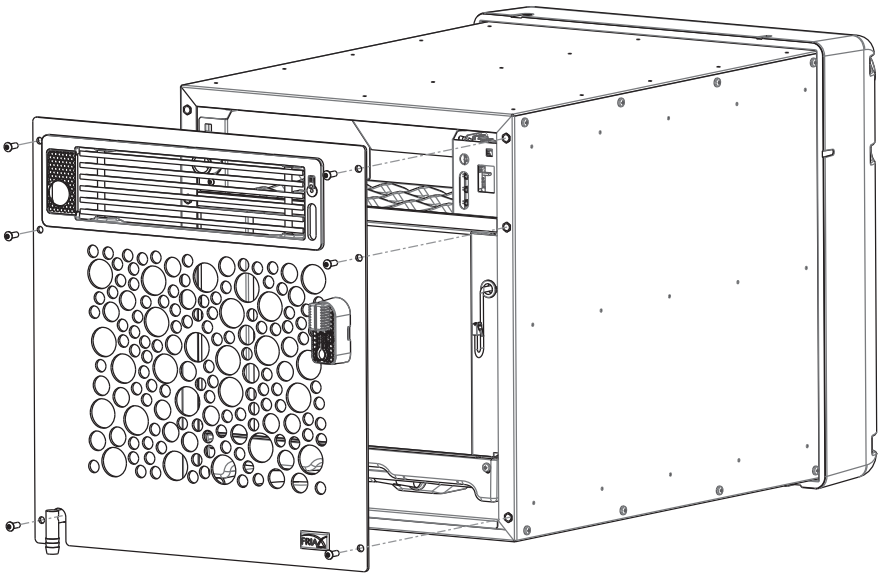
2-Installation on the condenser side in IN mounting.

In this configuration it will first be necessary to fix the probe located in the box of the remote control and connect it to the RJ12 coming out of the device before fixing the front panel to the device.



Unclip the base of the probe by pulling it backwards and fix it using the screw provided on the probe blocker.

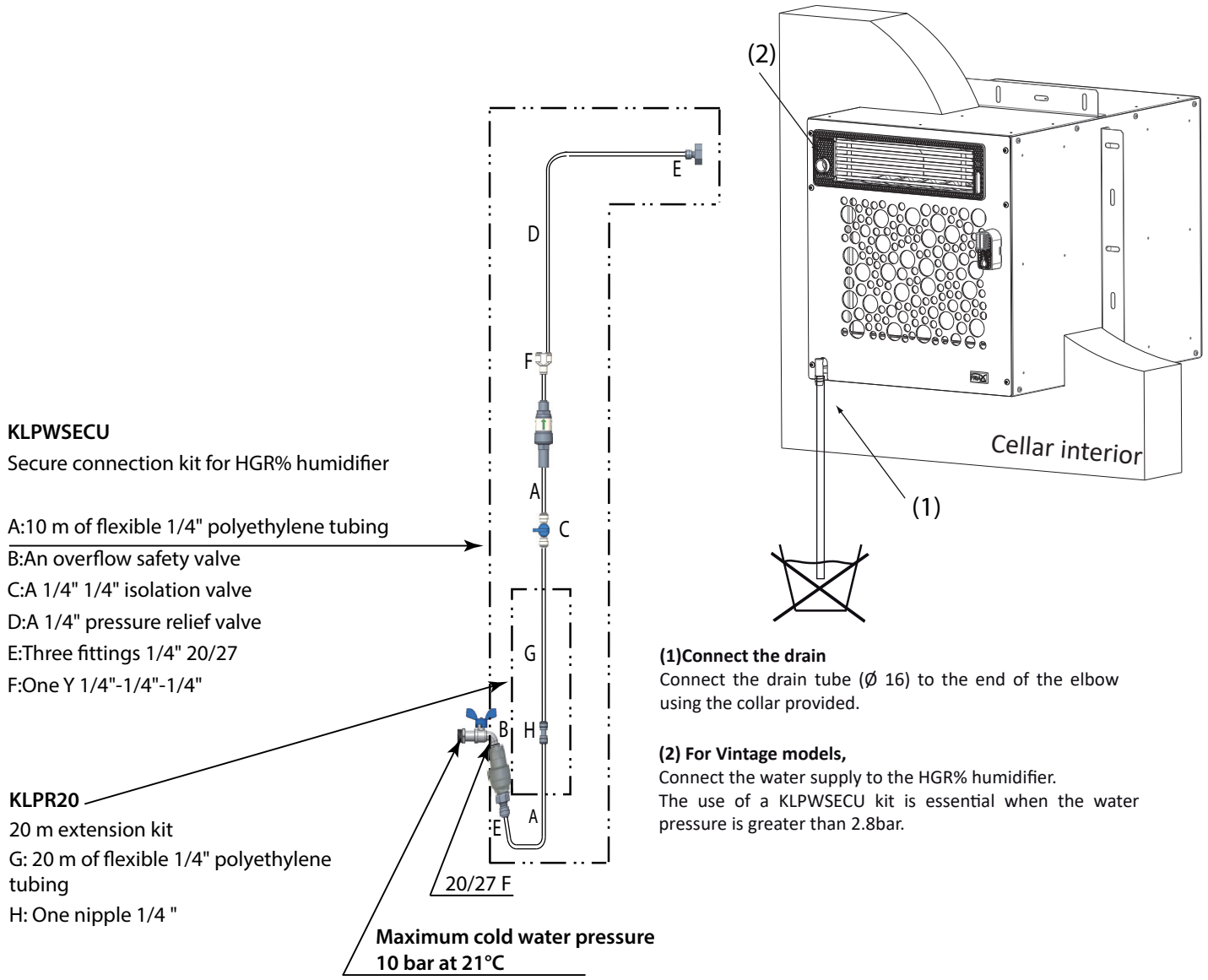




KLPWSECU kit (vintage option).

On vintage models you will need to connect a klpwsecu kit, on the Out and IN-OUT configurations it will first be necessary to put the connector E and the tube D on the device before fixing the duct frontage.

(Refer to page 15 for the cutting of the holes for the passage of the supply tube).



KLPWSECU
Secure connection kit for HGR% humidifier

A:10 m of flexible 1/4" polyethylene tubing
B:An overflow safety valve
C:A 1/4" 1/4" isolation valve
D:A 1/4" pressure relief valve
E:Three fittings 1/4" 20/27
F:One Y 1/4"-1/4"-1/4"

KLPR20
20 m extension kit
G: 20 m of flexible 1/4" polyethylene tubing
H: One nipple 1/4 "

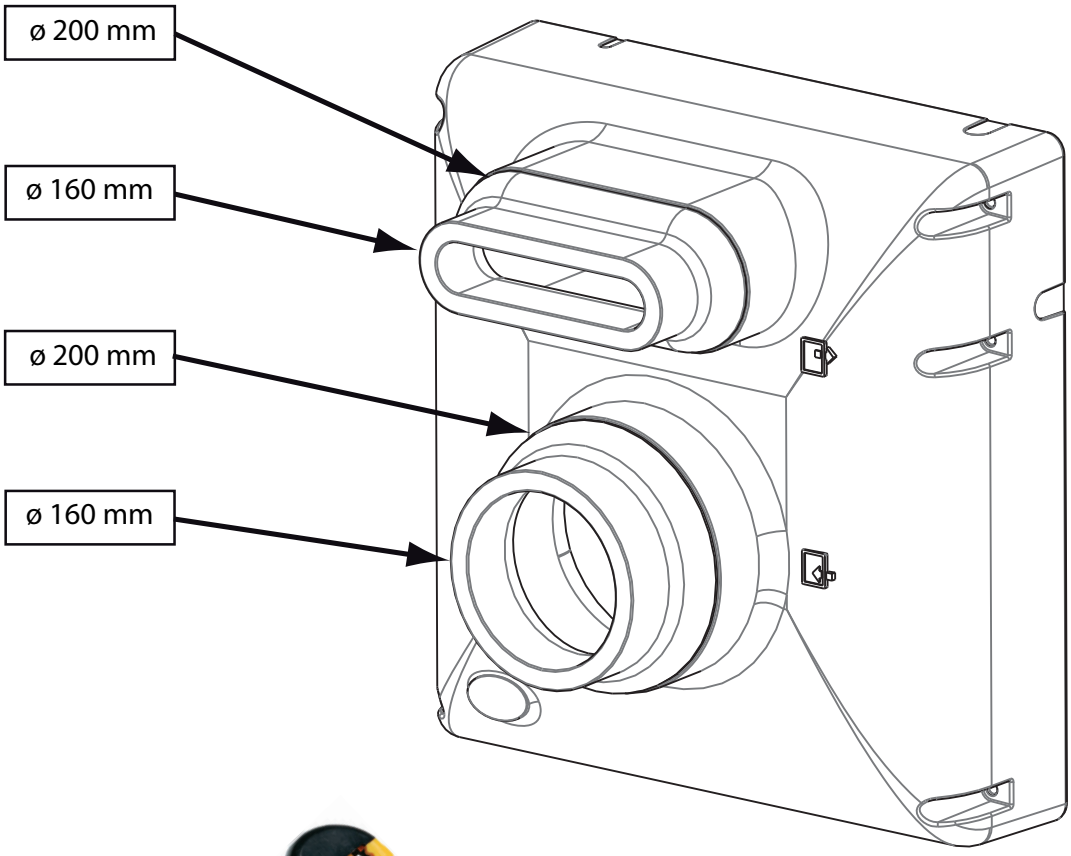
Maximum cold water pressure 10 bar at 21°C

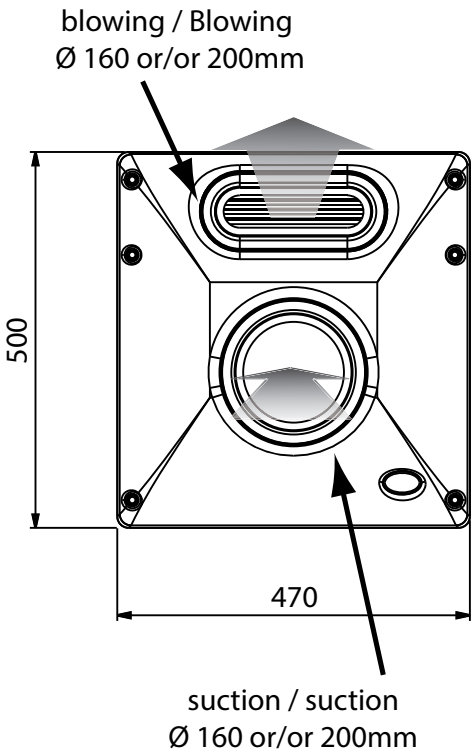
(1)Connect the drain
Connect the drain tube (Ø 16) to the end of the elbow using the collar provided.

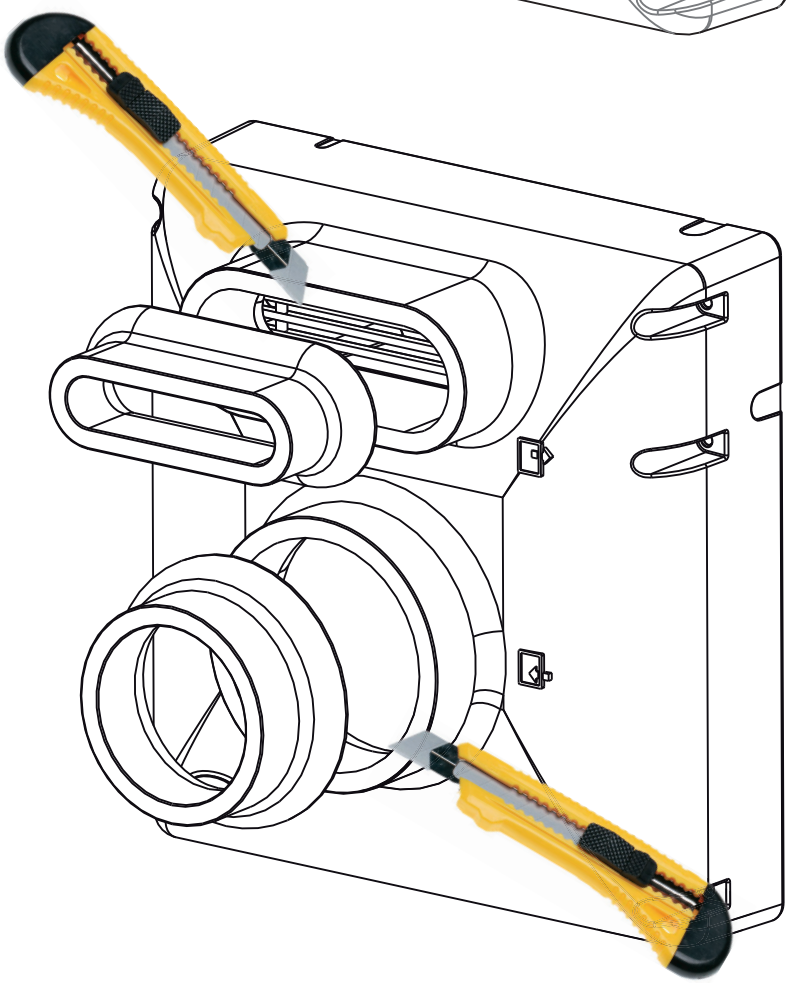
(2) For Vintage models,
Connect the water supply to the HGR% humidifier.
The use of a KLPWSECU kit is essential when the water pressure is greater than 2.8bar.

Se la pressione dell'acqua supera i 2,8 bar, è necessario utilizzare un kit di limitazione della pressione.

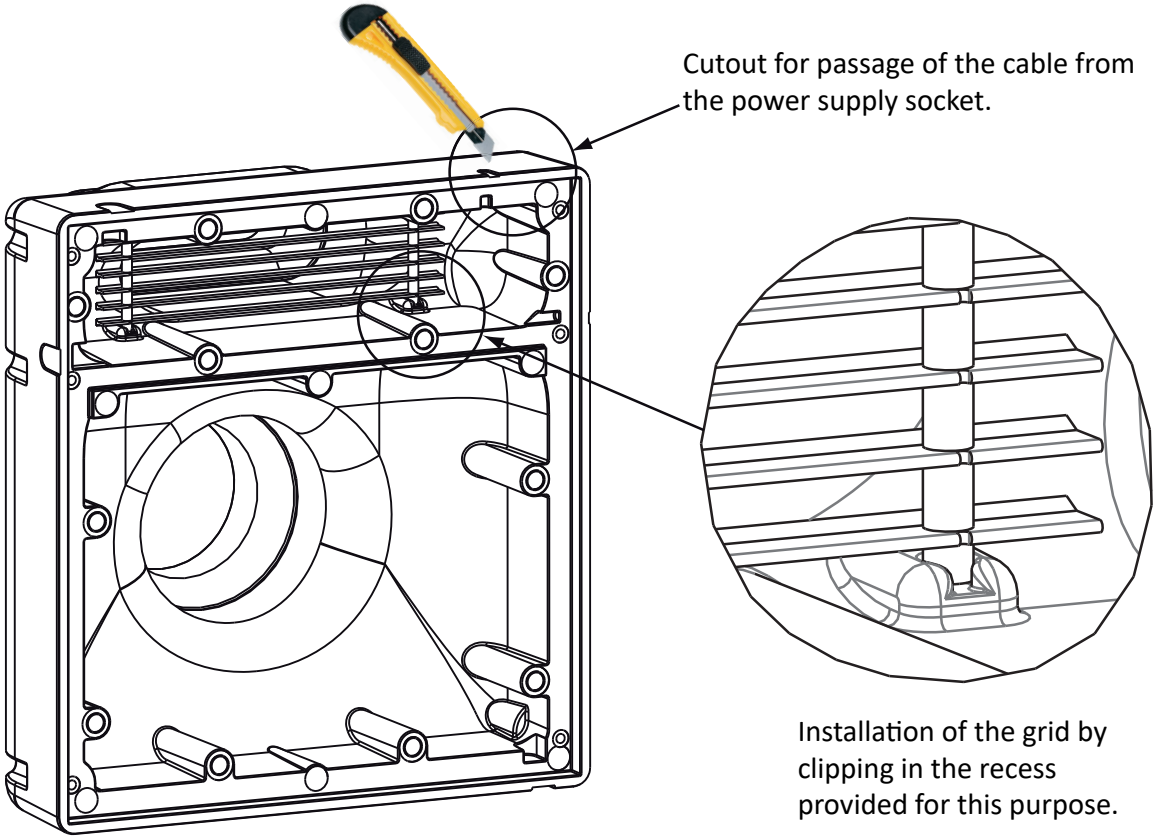
Présentation.

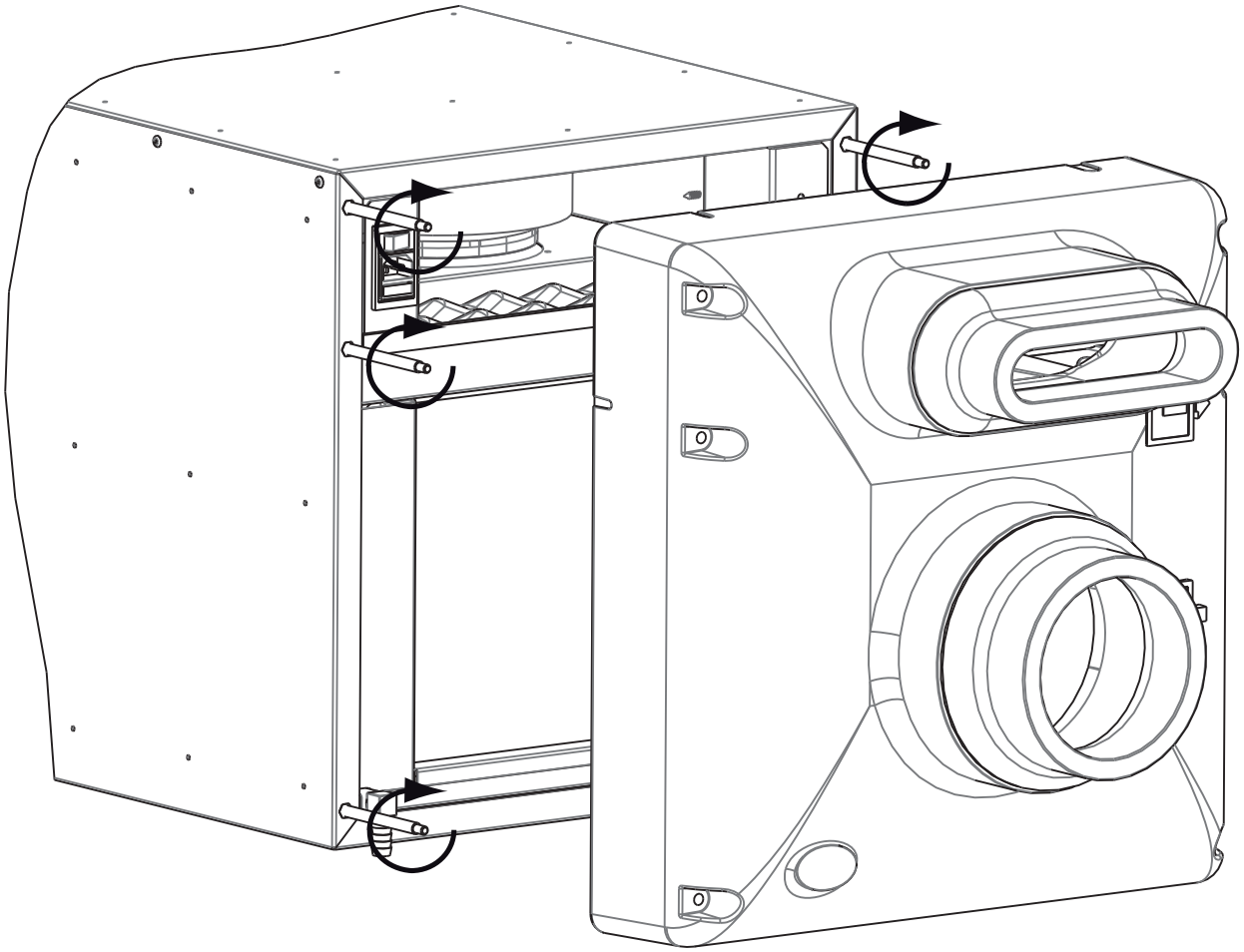






IN mouting Preparation of the ducted facade on the condenser side





IN Mounting Duct compatibility

Use the tables below to check the compatibility of your duct with the air conditioner:
C: duct length and number of elbows compatible with the device used, If the selection is out of range, you have the option to:
-Increase the diameter of the duct
-Reduce the length of the duct
-Reduce the number of elbows installed

Configuration with plenum + grid at suction and blowing

ø160mm duct on AIR CONDENSER

MPC 30 IN	Duct total length														
Number of 90° elbow	1	2	3	4	5	6	7	8	9	10	11	12	13		
1	C	C	C	C	C	C	C	C	C	C	C	C	C		
2	C	C	C	C	C	C	C	C	C	C	C				
3	C	C	C	C	C	C	C	C	C	C					
4	C	C	C	C	C	C	C	C							
5	C	C	C	C	C	C	C								
6	C	C	C	C	C										
7	C	C	C												
8	C	C													

ø200mm duct on AIR CONDENSER

MPC 30 IN	Duct total length														
Number of 90° elbow	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
2	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
3	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
4	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
5	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
6	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
7	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
8	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

Configuration with plenum + grid at suction and blowing

ø160mm duct on AIR CONDENSER

MPC 48 IN	Duct total length														
Number of 90° elbow	1	2	3	4	5	6	7	8	9	10					
1	C	C	C	C	C	C	C	C	C	C					
2	C	C	C	C	C	C	C	C							
3	C	C	C	C	C	C									
4	C	C	C	C	C										
5	C	C	C												
6	C														

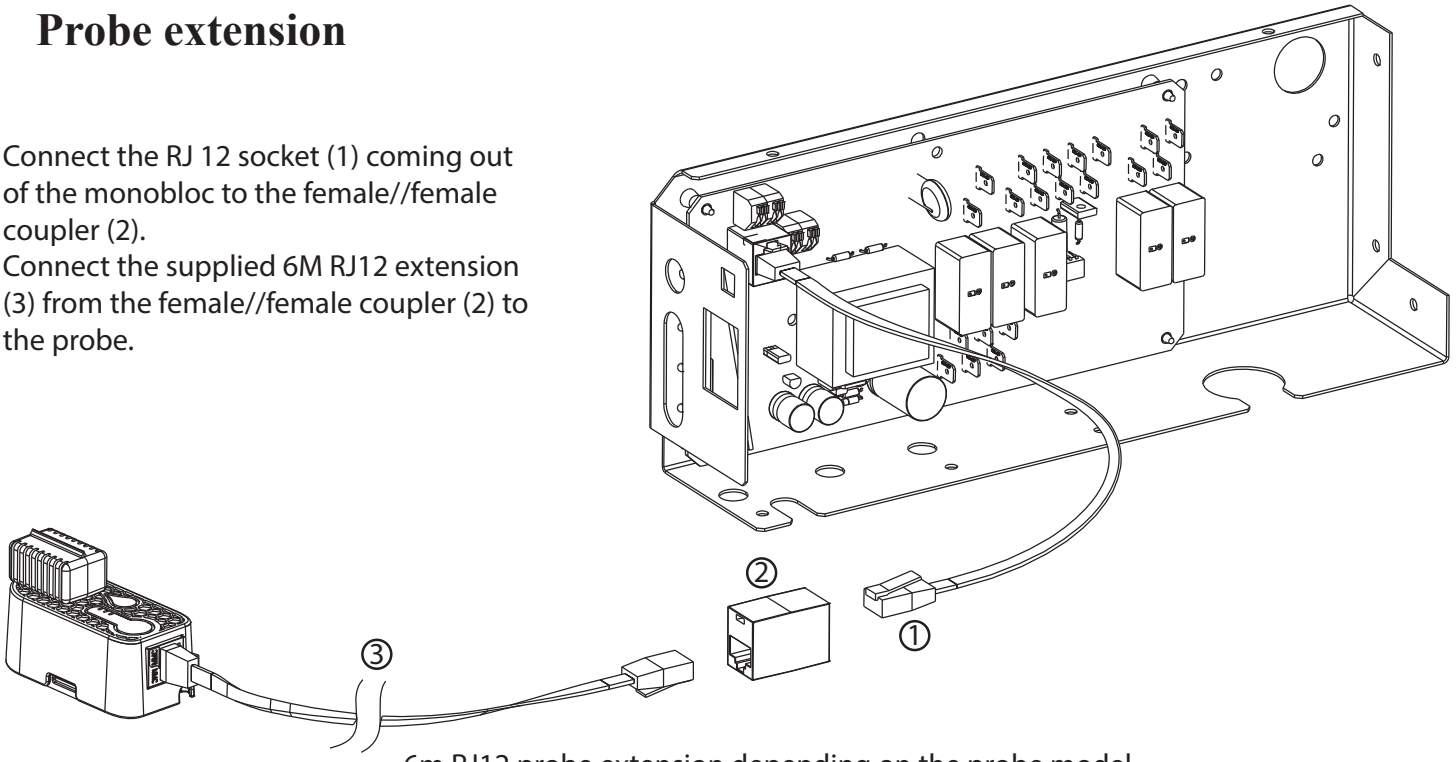
ø200mm duct on AIR CONDENSER

MPC 48 IN	Duct total length														
Number of 90° elbow	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
2	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
3	C	C	C	C	C	C	C	C	C	C	C	C	C		
4	C	C	C	C	C	C	C	C	C	C	C				
5	C	C	C	C	C	C	C	C	C						
6	C	C	C	C	C	C	C								
7	C	C	C	C	C										
8	C	C	C												

OUT Mouting: Preparation of the ducted facade on the evaporator side

Probe extension

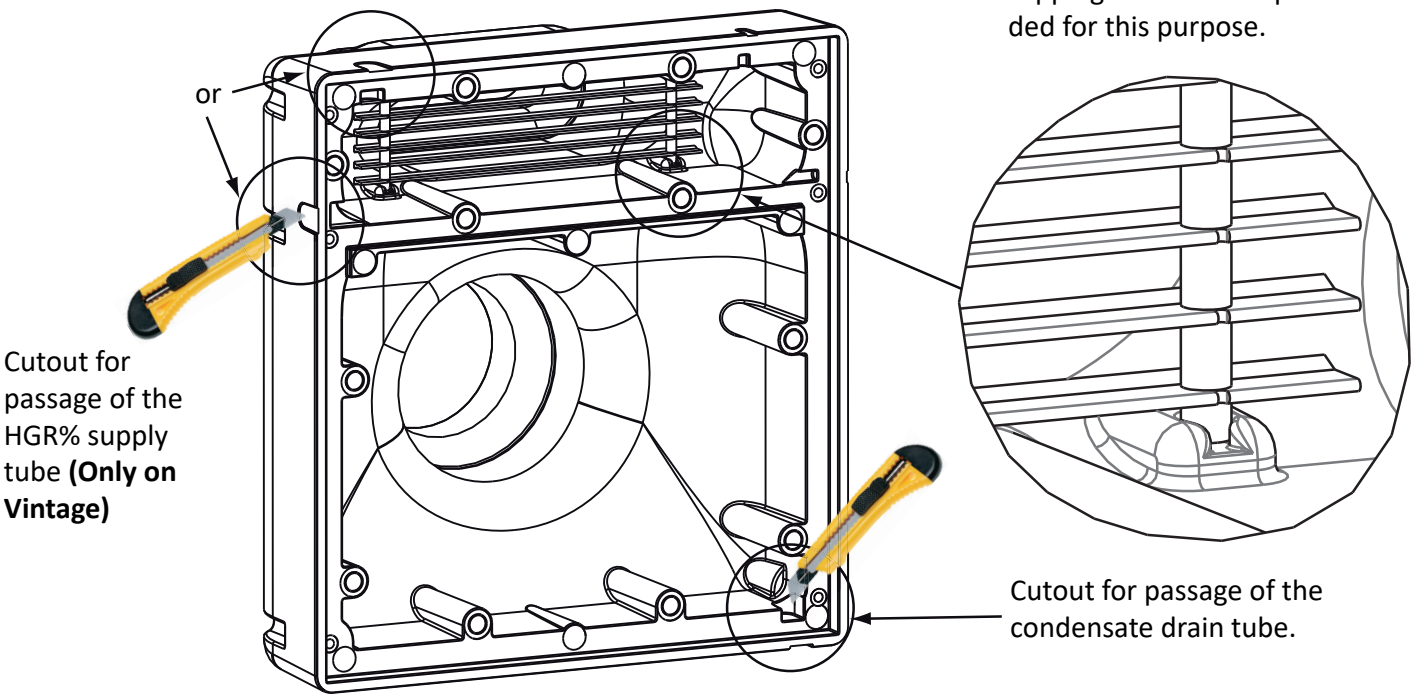
Connect the RJ 12 socket (1) coming out of the monobloc to the female//female coupler (2).
Connect the supplied 6M RJ12 extension (3) from the female//female coupler (2) to the probe.



6m RJ12 probe extension depending on the probe model

Drain and humidifier

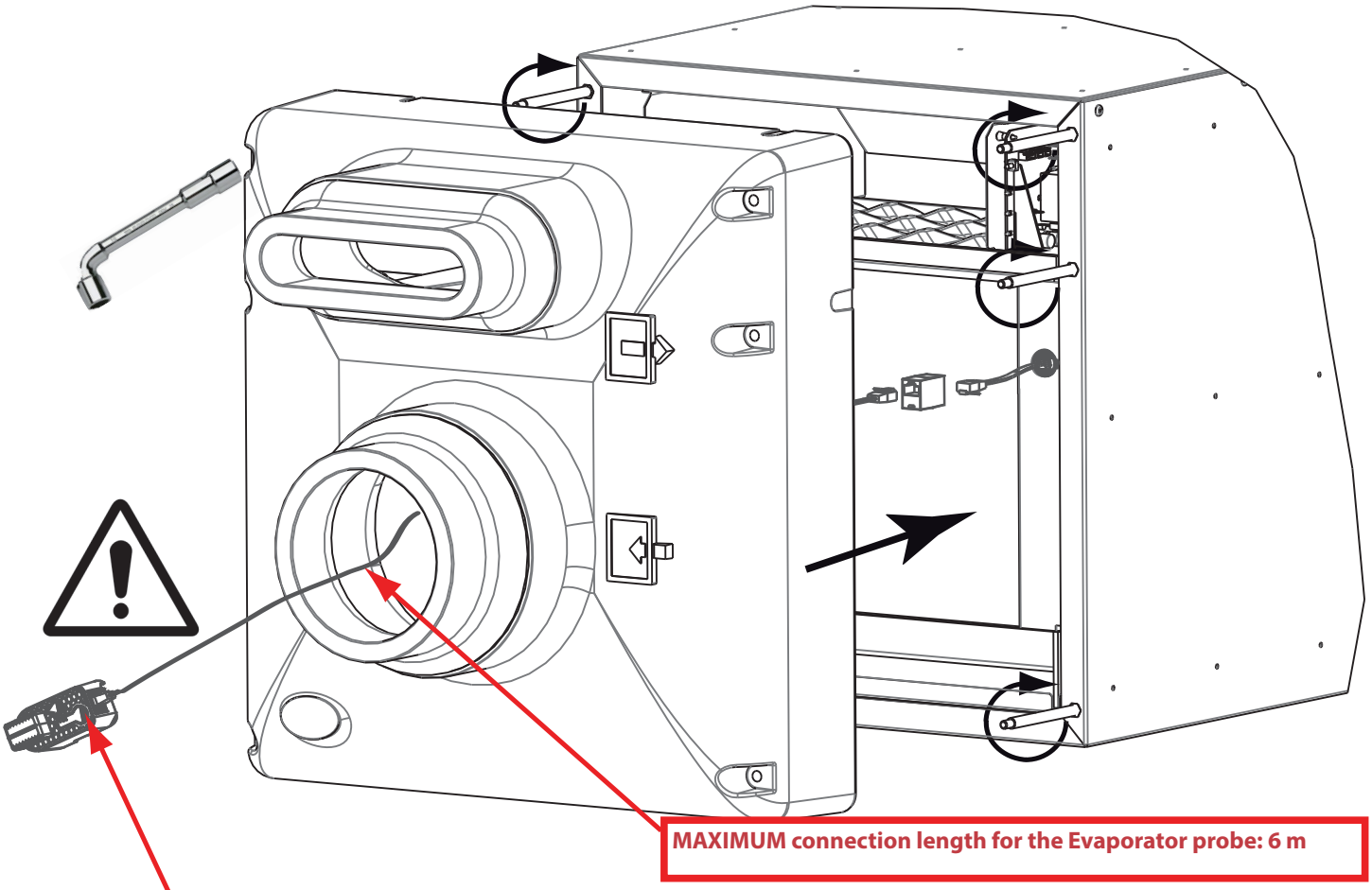
Installation of the grid by clipping in the recess provided for this purpose.

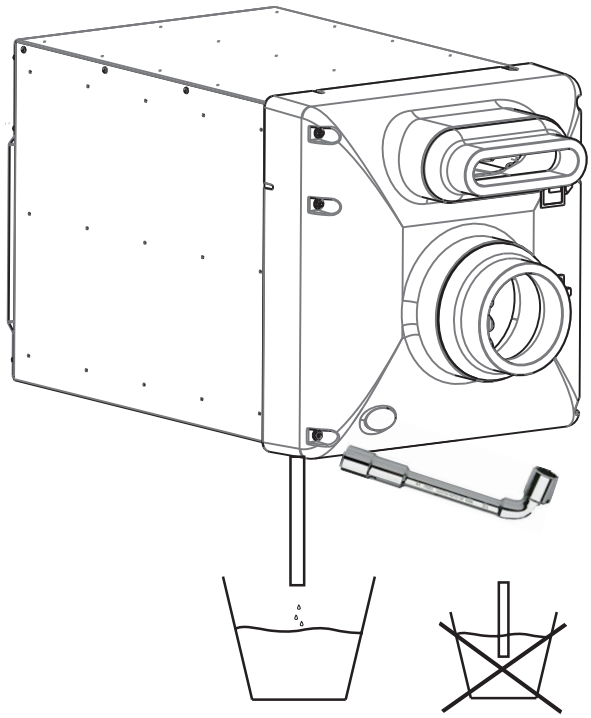


Cutout for passage of the HGR% supply tube **(Only on Vintage)**

Cutout for passage of the condensate drain tube.

DUCTED FACADE INSTALLATION





Montage OUT Value of the fan speed

Thanks to the tables below find the fan speed of the cellar to adjust on your air conditioner when the one is sheathed:

Depending on the total length of the sheath (Go and back) and the total number of elbow find the value to be set in the remote control menu of your air conditioner MPC

Configuration with plenum + grid at suction and blowing

Duct ø160mm on the evaporator Nominal flow 310m3/h

MPC 30 OUT	Duct total length (m)														
Number of 90° elbow	1	2	3	4	5	6	7	8	9	10	11	12	13		
1	10	10	11	11	11	12	12	12	12	13	13	14	14		
2	11	11	11	12	12	12	13	13	13	14	14				
3	11	11	12	12	12	13	13	13	14	14					
4	12	12	12	13	13	13	14	14							
5	12	13	13	13	14	14									
6	13	13	13	14	14										
7	13	14	14						◯ position of the speed to indicate in the menu of the remote control						
8	14	14													

MPC 30 OUT	Duct total length (m)														
Number of 90° elbow	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7
2	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7
3	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
4	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8
5	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8
6	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8
7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8
8	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8

Configuration with plenum + grid at suction and blowing

Duct ø160mm on the evaporator Nominal flow 365m3/h

MPC 48 OUT	Duct total length (m)														
Number of 90° elbow	1	2	3	4	5	6	7	8	9	10					
1	15	16	16	16	17	17	17	18	18	18					
2	16	16	17	17	17	18	18	18							
3	17	17	17	18	18	18									
4	17	18	18	18	18										
5	18	18	18												
6	18														
									◯ position of the speed to indicate in the menu of the remote control						

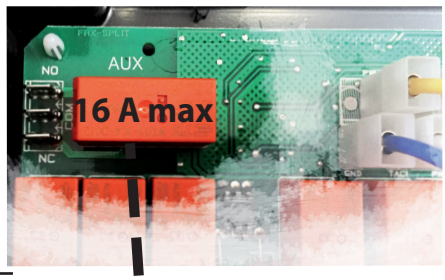
Duct ø200mm on the evaporator Nominal flow 365m3 / h

MPC 48 OUT															
Number of 90° elbow	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	12	12	12	13	13	13	13	13	13	13	14	14	14	14	14
2	12	13	13	13	13	13	13	13	14	14	14	14	14	14	14
3	13	13	13	13	13	14	14	14	14	14	14	14	14		
4	13	13	13	14	14	14	14	14	14	14	14				
5	13	14	14	14	14	14	14	14	14						
6	14	14	14	14	14	14	14								
7	14	14	14	14	14				◯ position of the speed to indicate in the menu of the remote control						
8	14	14	14												

Wiring diagram

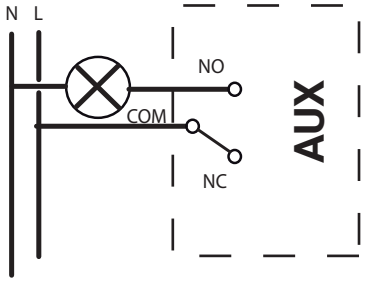
The card is equipped with an auxiliary contact COM-NO-NC
2 functions can be associated with the auxiliary contact:
- ECL lighting function
- Alarm reporting function

The card is basically programmed for lighting function.



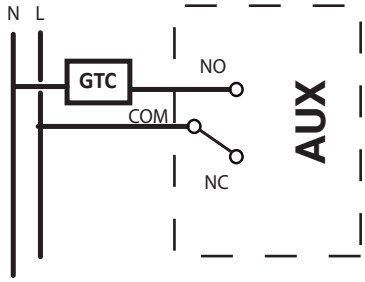
Lighting function:

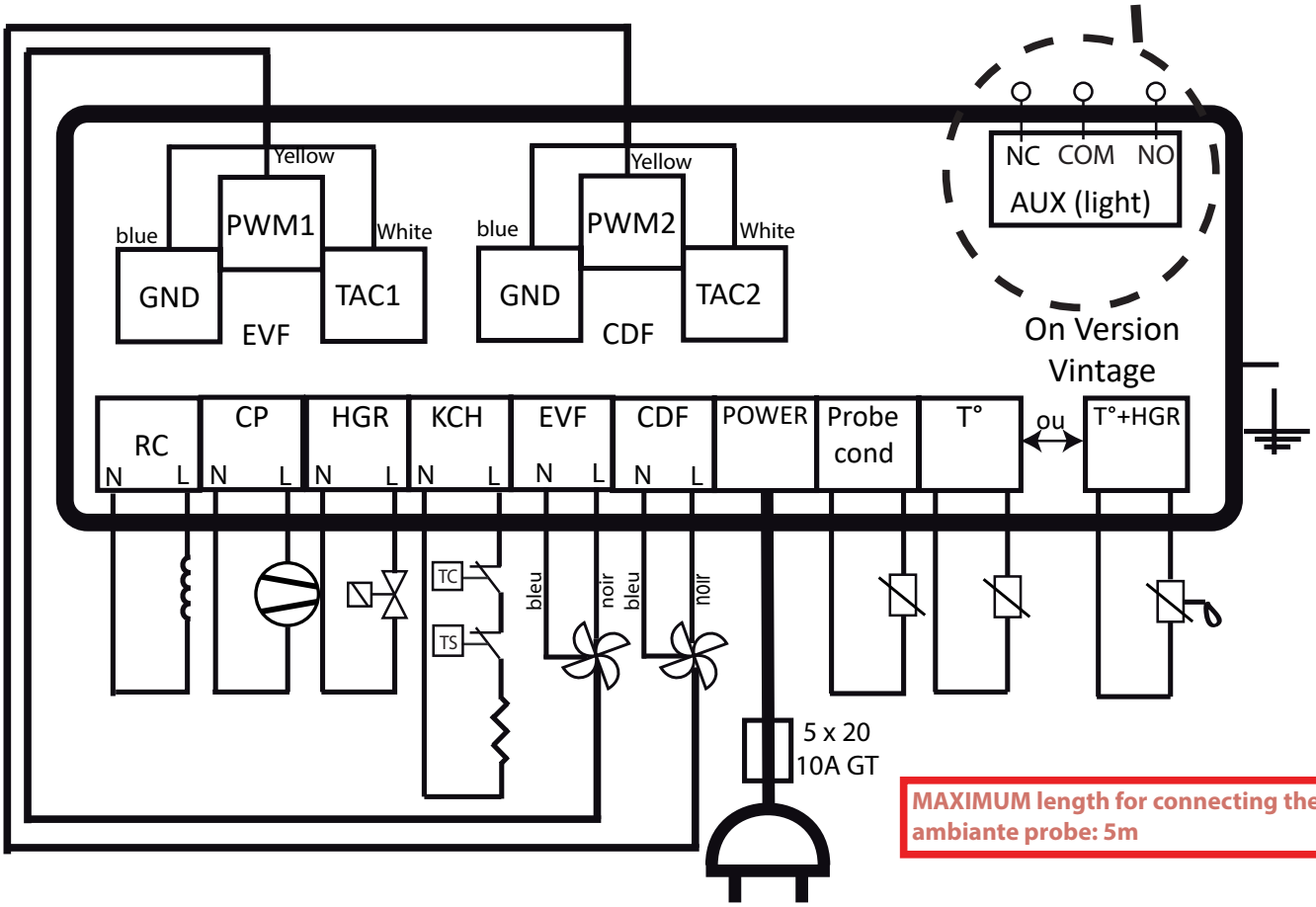
To turn on the lighting, refer to the RSF2 Commissioning & Use instructions,
==>Summary==>Menu architecture==>
Menu 3 FUNC Lig ON/OFF command.

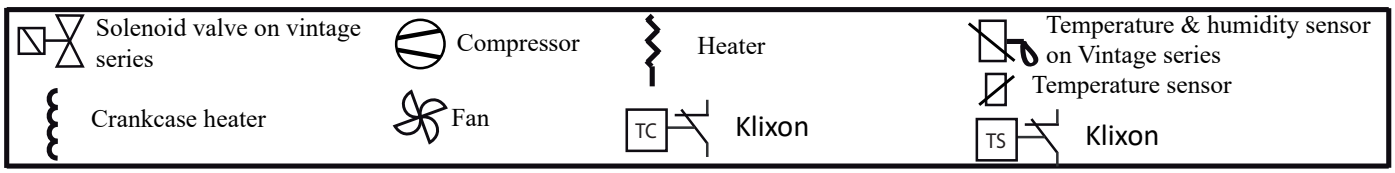


Alarm reporting function:

To switch the alarm reporting relay, refer to the installer parameter instructions, Modify parameter 45:
1 = "type 1" alarms
2 = "type 2" alarms
1+2 = "type 1+2" alarms







Maintenance

The following maintenance operations repeated every 6 months will allow you to maintain the optimal performance of your appliance and thus maintain the ideal environment for the conservation and aging of your bottles..

WARNING

Before any maintenance operations, stop the device with the remote control then cut off the power supply on the main circuit breaker to avoid any risk of electrocution.

Any intervention on a refrigeration circuit must be carried out by a professional authorized by an accredited organization certifying the competence to handle refrigerants..

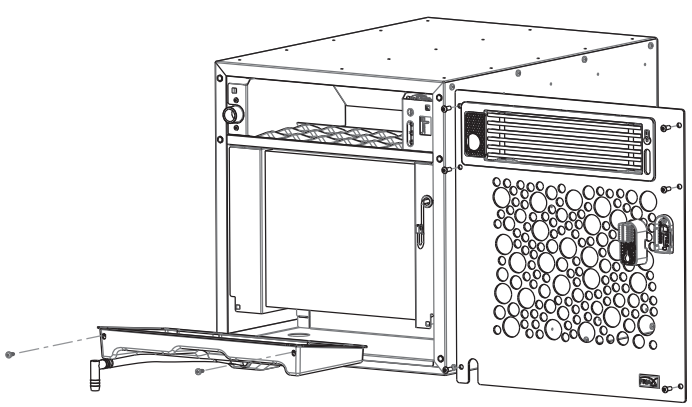
Condenser Side Maintenance

- Remove the front panel using an Allen key to access the air condenser coil.
- Using a vacuum cleaner: vacuum the dust present on the battery.
(be careful not to damage the fins)
- Before closing, check that there are no foreign objects (leaves, etc.) that could affect the correct operation of the appliance.
- Restore power

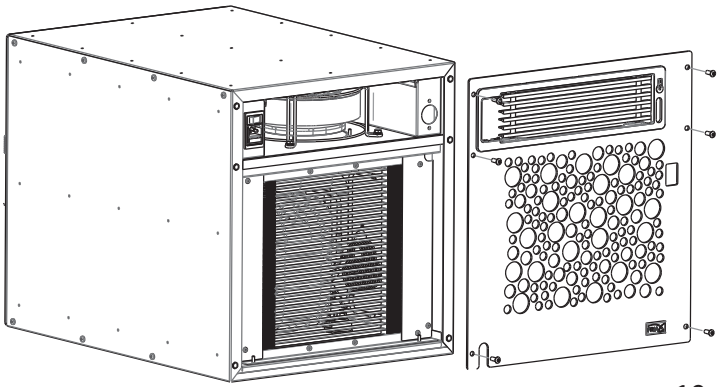
Maintenance on the evaporator side (int. cellar)

- Remove the front using an Allen key to access the air evaporator battery.
- Using a vacuum cleaner: vacuum the dust present on the battery.
- Disassemble the condensate tray for easy cleaning with water and disinfection using KNET075 (bactericidal fungicide cleaner for cellar air conditioning, if you notice a development slimy in the tray).
- Check that the drain is not blocked before putting the tray back in place.
- If you have a sump pump, check that it is working properly by pouring a glass of water (25 cl) gently into the condensate tray to make it work.
- Close the device.
- Refermez l'appareil.

Evaporator side



Condenser side



NOTES

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