FRIAX INDUSTRIE

TECHNICAL INSTALLATION MANUAL





EVX2 Vintage evaporator

PRODUCT REGISTRATION

Register your products now to validate your installation and benefit from improved support if needed.

La FRENCH FAB

FABRIQUÉ EN FRANCE

LAURÉAT Réseau Entreprendre SAVOIE

EN-NT-SPC-EVX2-VTX-0726

Specifications may change without prior notice to reflect product improvements.

Warning

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 can result in personal injury, property damage, and voiding of the manufacturer's warranty. Failure to comply with safety instructions and local standards during the installation releases the manufacturer from all liability.

- Make sure to install the device in a place protected from the elements and frost-free.

- The equipment should be installed in a room without a permanent source of fire, such as open flame, a combustion device, an electric heater, etc..

- The possible stagnation of refrigerant gas leaks in unventilated rooms can create a risk of fire or explosion if the refrigerant comes into contact with an ignition source.

- Be aware that some refrigerant gases can be odorless.

- Any intervention on a refrigeration circuit must be carried out by a professionnal authorized by an accredited body certifing the competence to handle refrigerant fluids.

- The appliance must be free of obstructionsat all times to ensure proper operation and reduce safety risks.

- Do not puncture any component of the refrigerant circuit.
- Use care 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 device are compatible with those of electrical installation.

- Make sure the AC outlet is grounded.

- Do not use the device if it is damaged.

- Do not connect the power supply until the entire installation is complete.

- Always switch off the appliance and unplug it from the mains for cleaning and maintenance.

- Do not put your hands or objects in the air inlets and outlets.

- Do not try 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 must not be used by children.

- The user should understand and be aware of the potential dangers associated with the use of the device.

- Use only the means and / or tools recommended by the manufacturer for defrosting or cleaning.

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Presentation

Thank you for choosing a Friax cellar system to control the aging of your wines. Take the time to read this user manual. It will allow you to understand and master the operations to install and adjust your device.

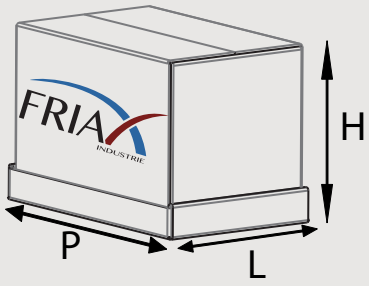
Receipt of the package

We invite you to examine the package upon receipt for possible damage to the cardboard or missing items. Please note your comments regarding the condition of the package on the carrier's delivery note: they will be used in the event of damage noted upon unpacking.

Your EVX2 package contains the following items:

- 1x Interior unit and its body
- 1x Galaxy Black Glossy Faceplate
- 1x Bag of accessories and connectors.
- 1x RSF remote control box (remote control + support + batteries x2)
- 1x Wall template
- 1x Bag of accessories and pipe for condensate connection
- 1x Technical installation manual
- 1x Commissioning manual

The manual corresponding to the condensing unit is located inside its packaging.



Dimensions excluding pallet : P x L x H
800mm x 600mm x 1000mm (P x L x H)





Technical data

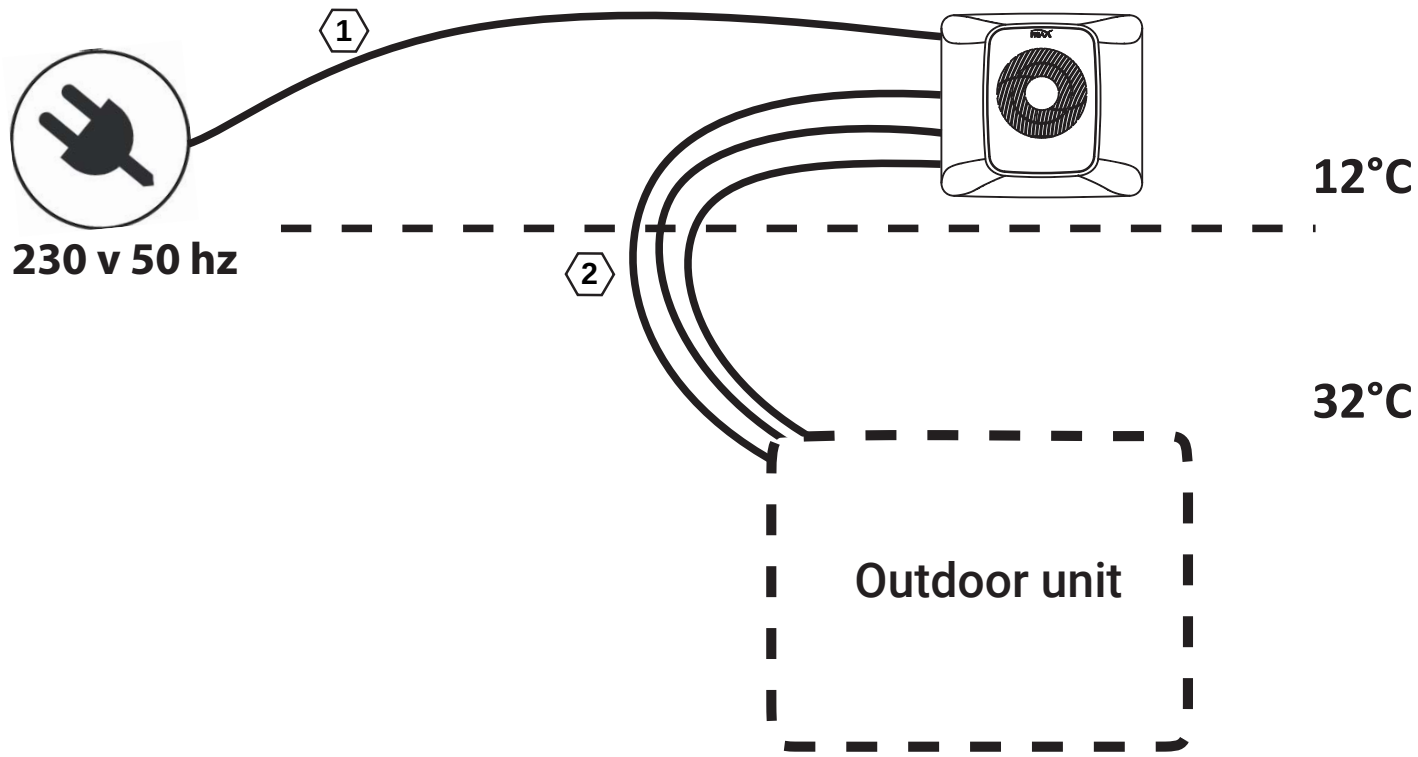
+32°C ext		SPC	30	48
Indicative volume to be air-conditioned			30m3*	48m3*
Fluid			R513A	R513A
Voltage/Frequency			230V / 50Hz	230V / 50Hz
Maximum current Cooling / Heating mode	GCH	Amax	5.68 / 3.87	5.78 / 3.87
	GCG		5.58 / 3.87	5.68 / 3.87
	GCW		4.19 / 3.87	4.29 /3.87
Adjusting the cellar temperature		°C	8 - 18	8 - 18
Cooling capacity		W	780 at 12°C **	1130 at 12°C **
Heating capacity		W	800	800
Cold power consumption	GCH	W	496	649
	GCG		506	682
	GCW		442	595
Hot power consumption		W	847	847
Air conditioner COP	GCH	W/W	1.57	1.74
	GCG		1.54	1.66
	GCW		1.76	1.90
Indoor unit			**EVX2**	**EVX2**
Number of fans			1	1
Airflow on cellar side		m3/h	452	452
Maximum current Cooling / Heating mode		Amax	0.37/3.87	0.37/3.87
Gas connection	Suction Liquid	Ø	3/8" 1/4"	3/8" 1/4"
Net weight		Kg	18	18
Body color			White	White

* Floor, ceiling and wall insulation in 80 mm PU for a device installed in the cellar wall
** under the following conditions: 12°C in the cellar / 32°C outside.

Electrical connections

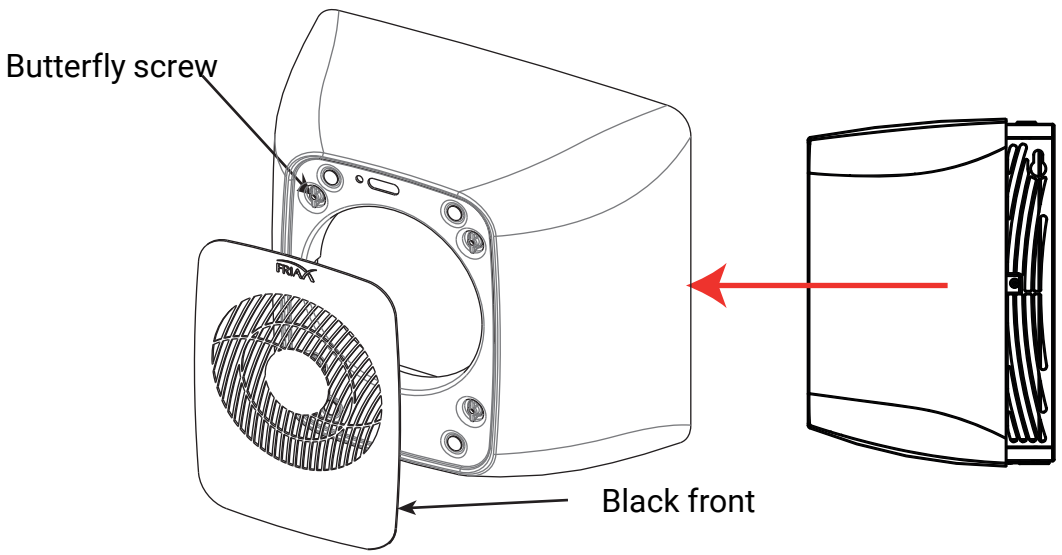
SPC EVX2	30	48
Voltage/Frequency	230V / 50Hz	230V / 50Hz
Protection	10A	10A
(1) Power supply **(provided)**	3g1.5² cords	3g1.5² cords
(2) Link indoor unit ==> Outdoor unit **(Not provided)**	1x (5g1.5²) 1 x (3 x1mm²) 1 x (2 x0.5mm²) lg 20m Max	1x (5g1.5²) 1 x (3 x1mm²) 1 x (2 x0.5mm²) lg 20m Max

Schematic diagram

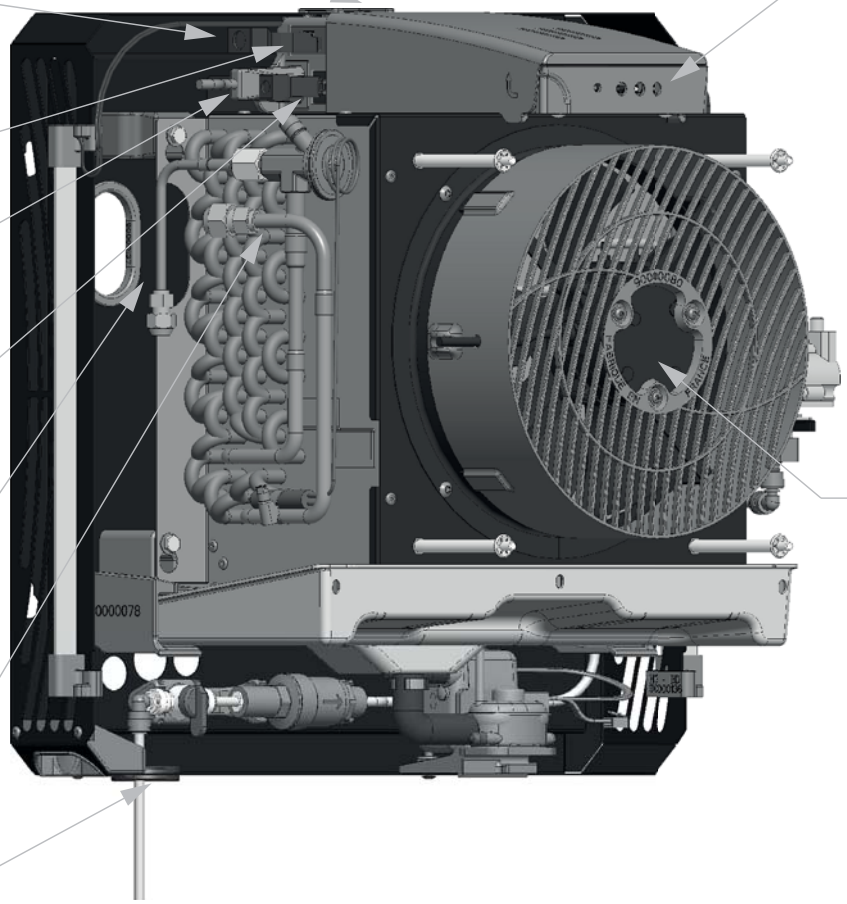


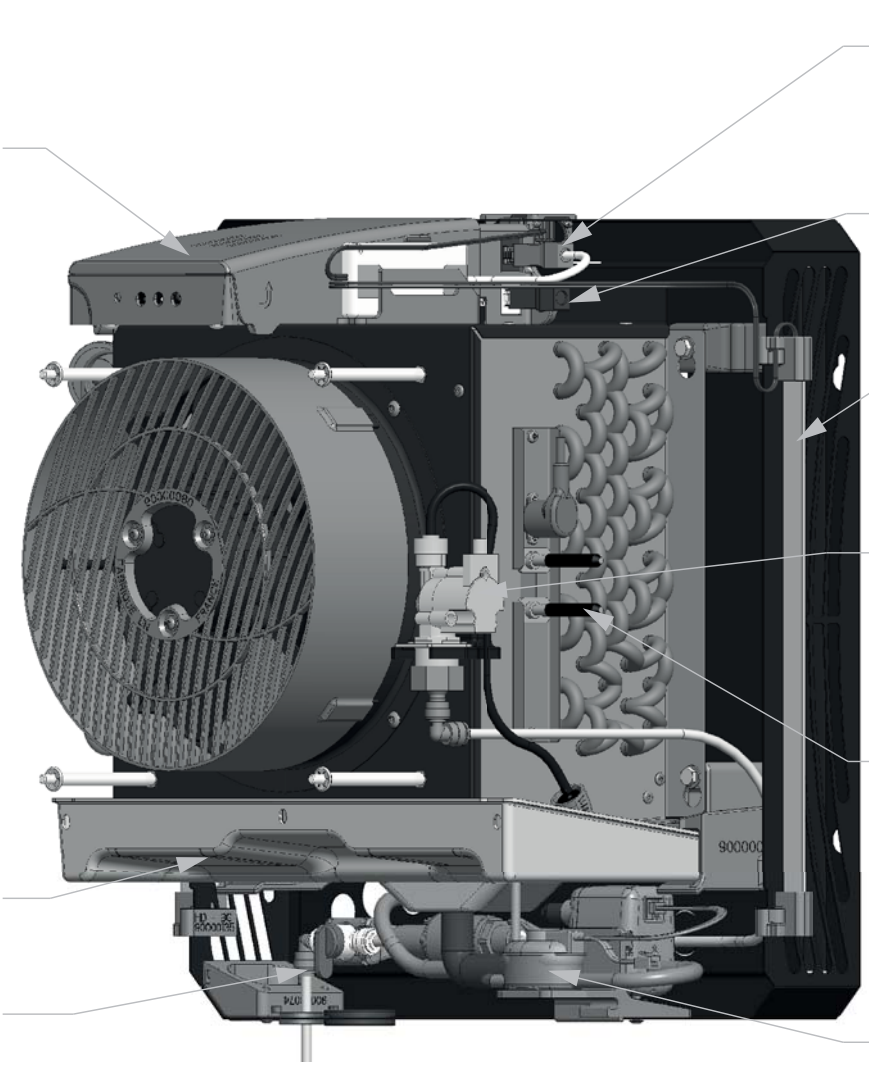
Indoor Unit

1. Unpacking the EVX2 evaporator



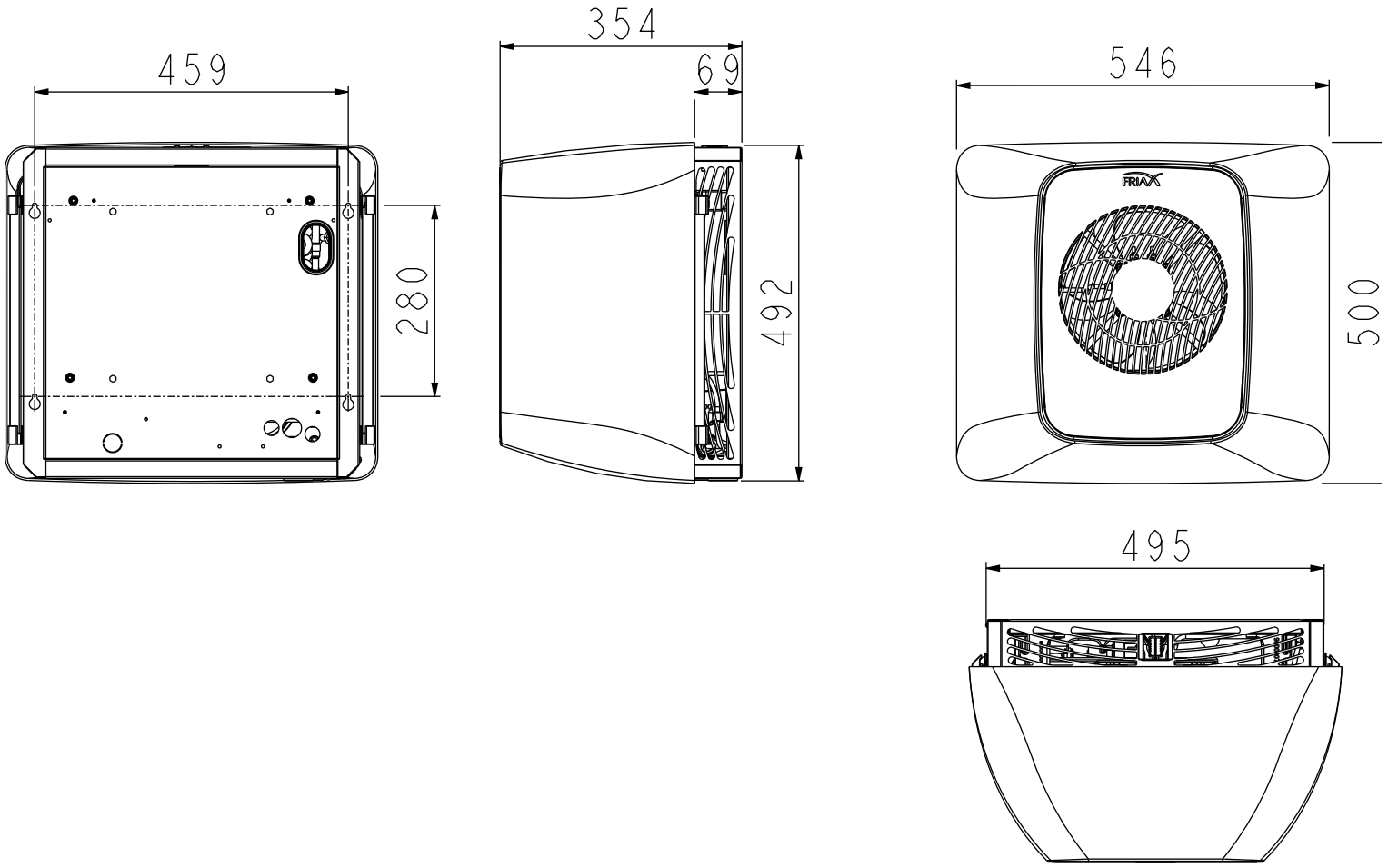
2. Evaporator identification





*sold separately

3. Dimensions



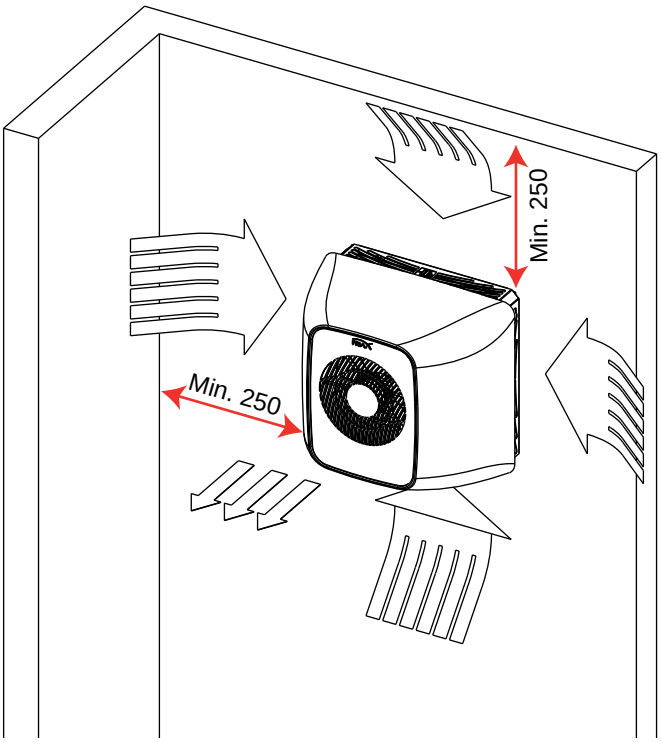
⚠ Make sure you have sufficient clearance

Your EVX2 evaporator uses its periphery along the wall to extract air.

Allow at least 25 cm of space around the device so as not to obstruct the air flow and obtain optimal flow.

For perfect diffusion, it is recommended to install the air conditioner high up; any other natural or mechanical ventilation in the cellar should be avoided.

Never place obstacles in the way of blowing and suction on the fronts of the device.

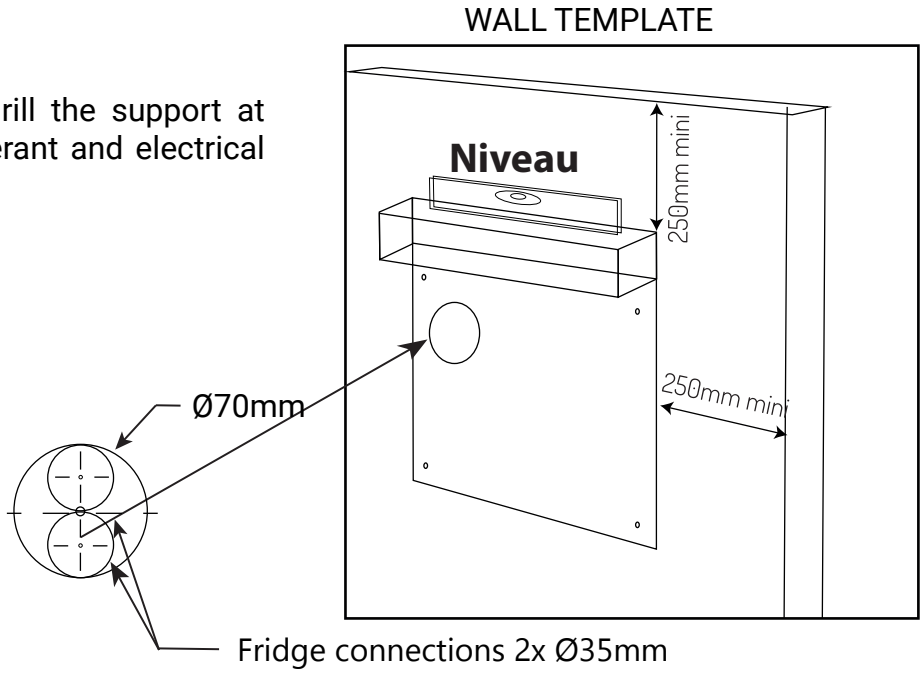


Implementation of the device

Install the air conditioner

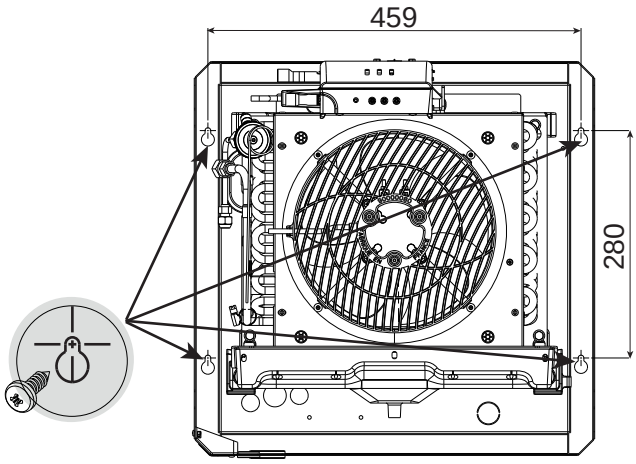
1. Fixing template

If connections are made from the rear, drill the support at the designated location for the two refrigerant and electrical connections.



2. Fixing the evaporator

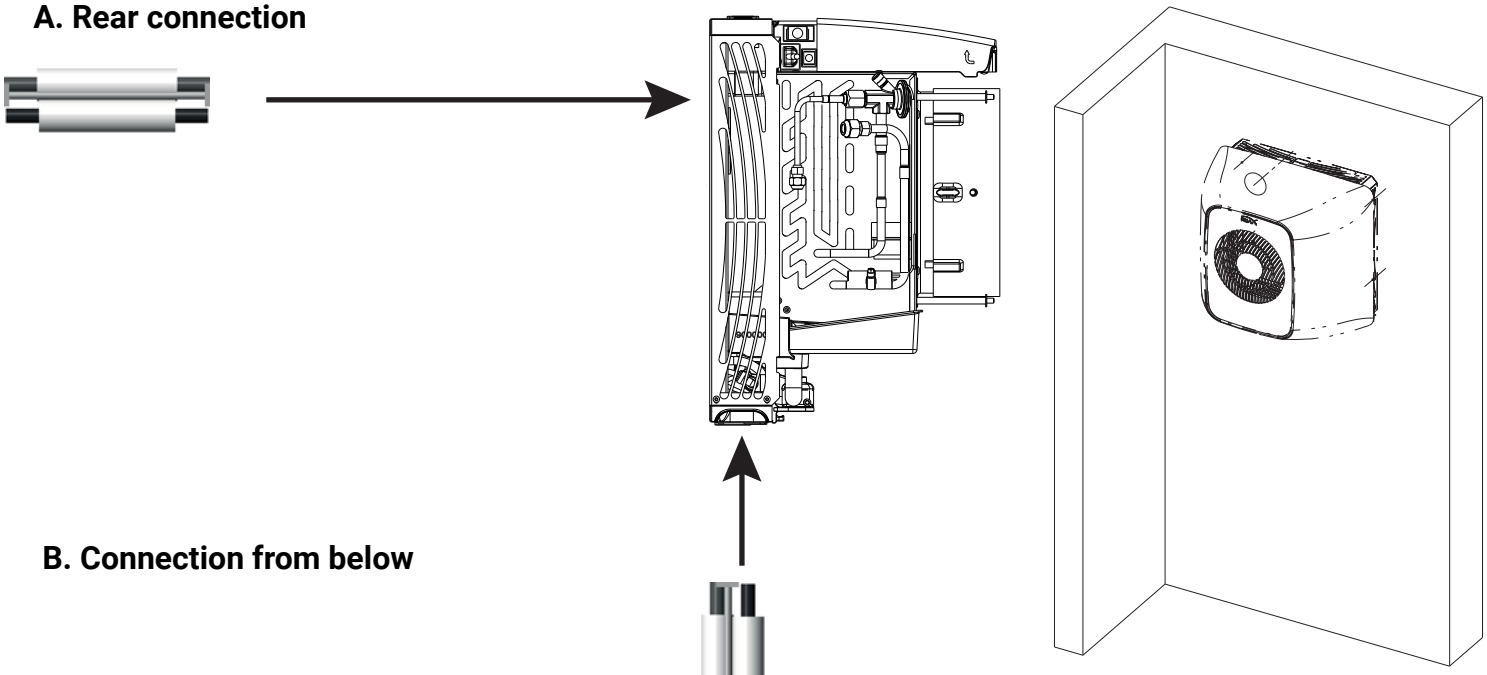
- Fix the device to the wall using screws suitable for the support (not supplied).



3. Refrigeration connection type:

- Connect the liquid line to the smaller diameter connection and the suction line to the larger diameter connection inside the evaporator.
- Refer to the condensing unit manual to complete the refrigeration installation.

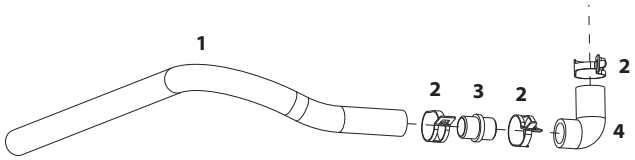
A. Rear connection

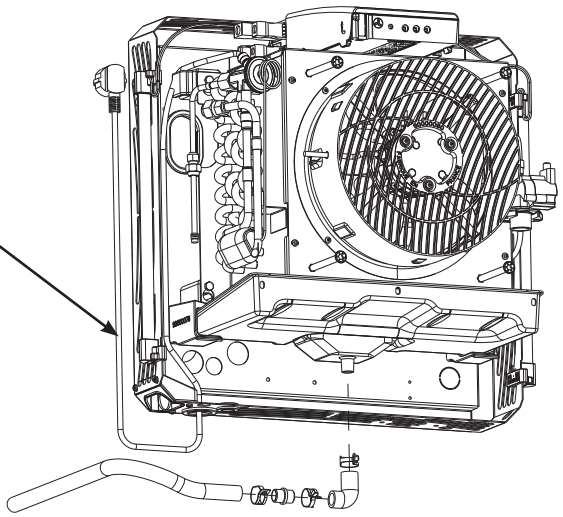


B. Connection from below

4. Installation of condensate drainage.

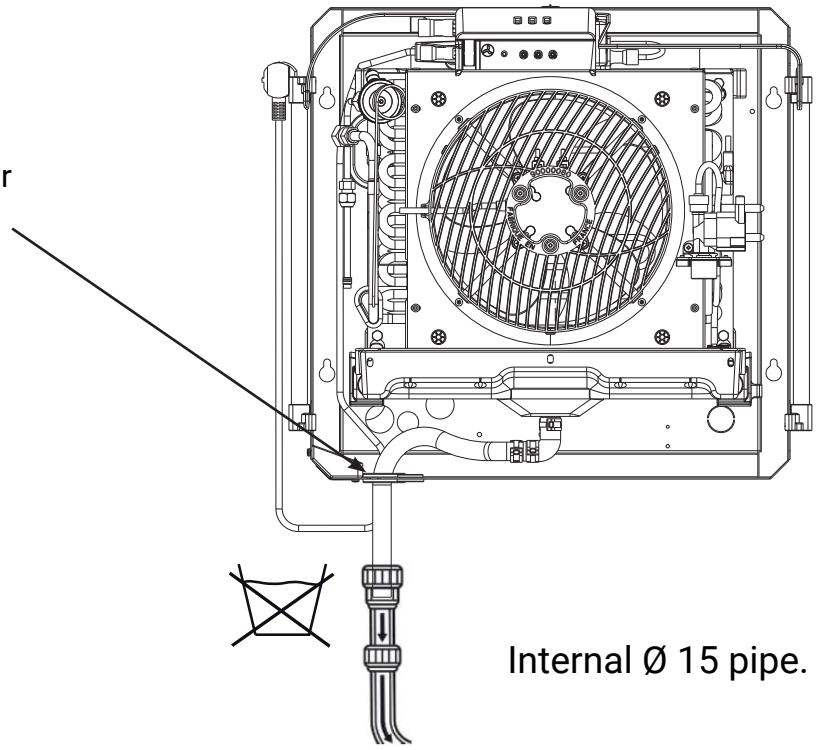
- A bag is supplied with your air conditioner. It contains a 1 m condensate drain hose with an internal diameter of Ø 15 mm (1), three spring clamps (2), one rigid connector (3) and one rubber hose (4).





A. Connections from inside the cellar.

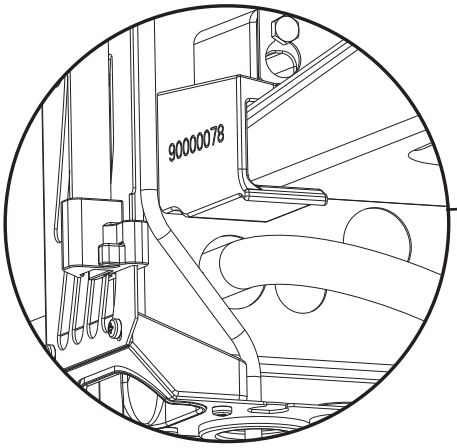
- Use the passages located at the bottom left for condensate drainage.

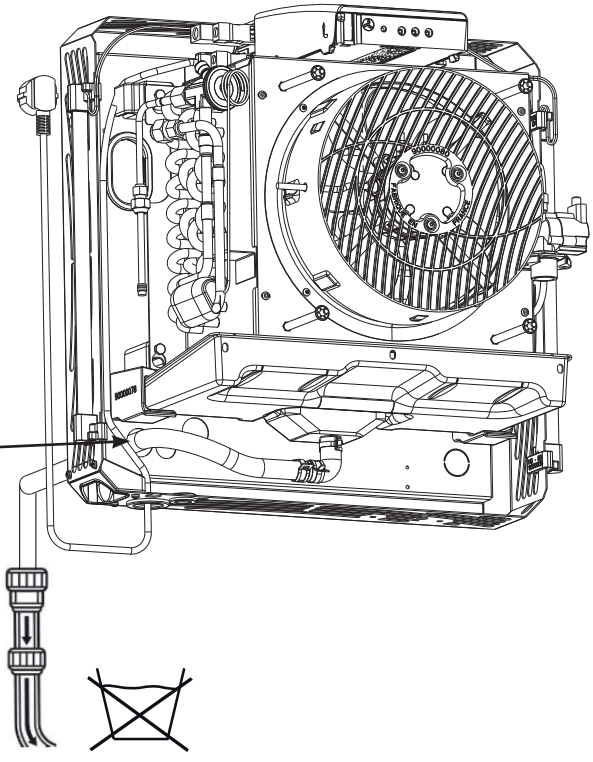


Internal Ø 15 pipe.

B. Connections from outside the cellar.

- Pierce the insulation blocking the openings using a screwdriver.
- Then drill the wall using suitable tools.
- After routing the condensate drain hose, seal the openings to ensure thermal insulation.

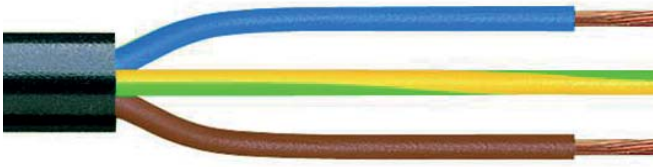




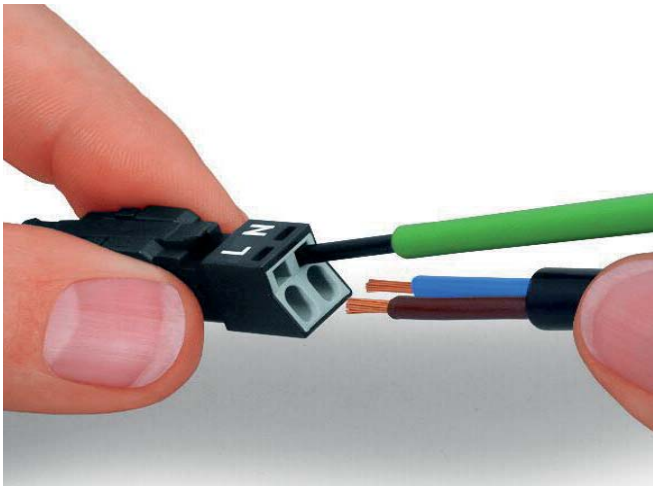
5. Installing the connectors

3 connectors are delivered to you in a bag in the evaporator box, for be connected to your cables following the assembly below.

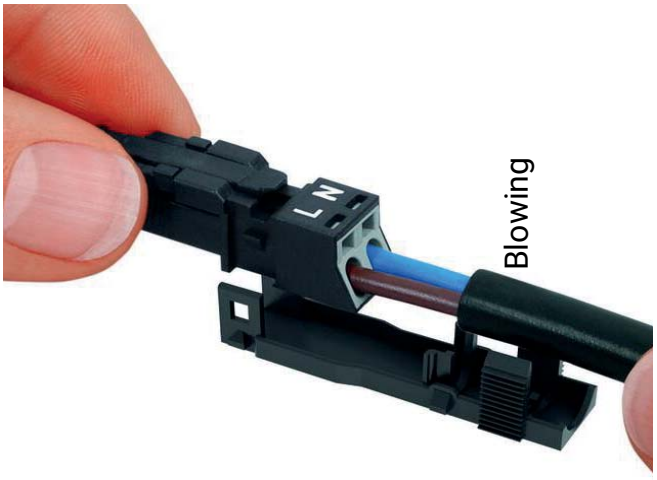
- Stripping length = 30 mm (2 poles), 37 mm (3 poles), 45 mm (4 and 5 poles)
- Wire stripping length = 9 mm
- Ground wire advance = 8 mm



1. Actuate the tension spring using a handling tool with blade width is 2.5 mm and insert the stripped wire as far as it will go to connect flexible conductors. The connection of the rigid cables is carried out by direct insertion.



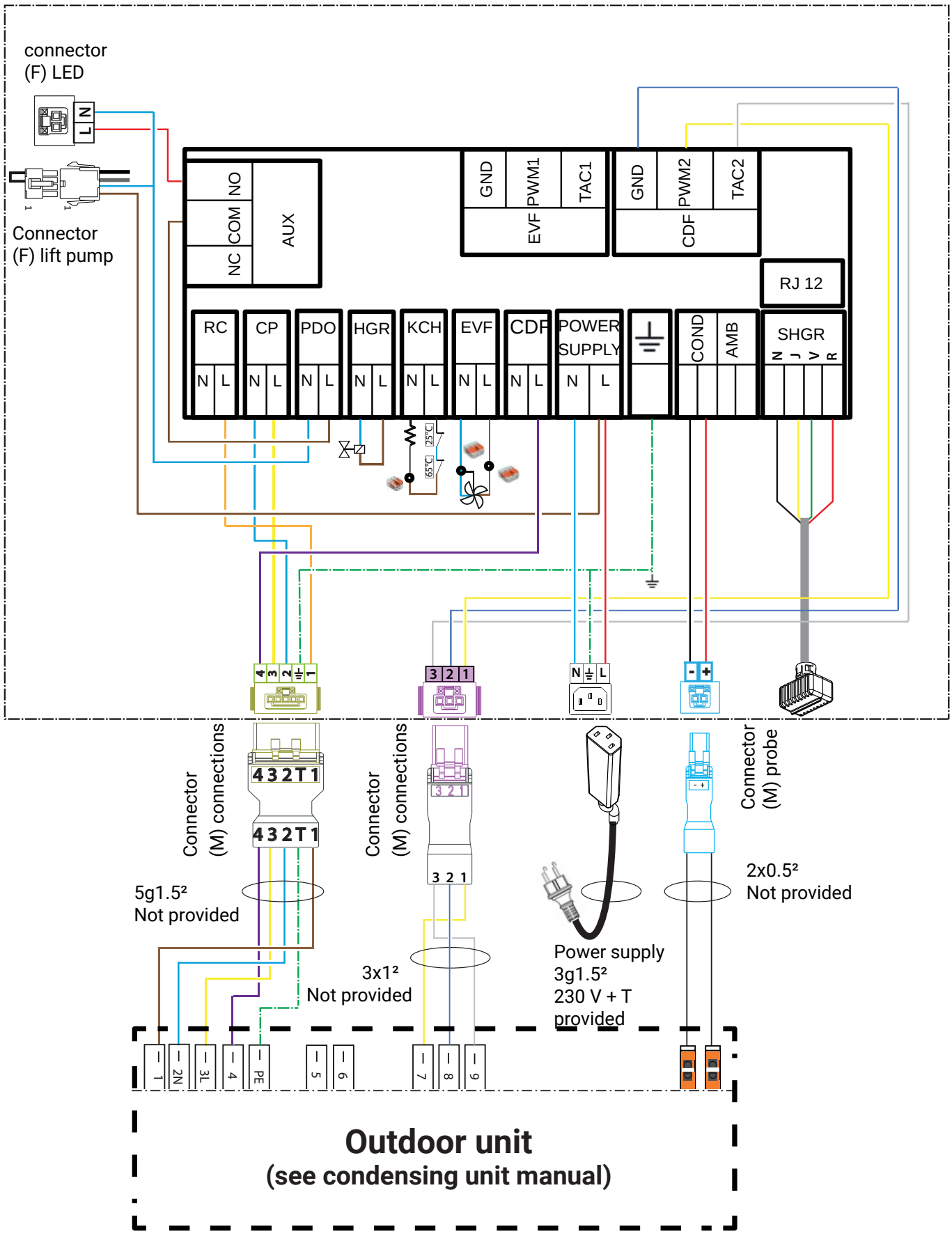
2. Snap the wired connector into the lower part of the discharge housing traction.



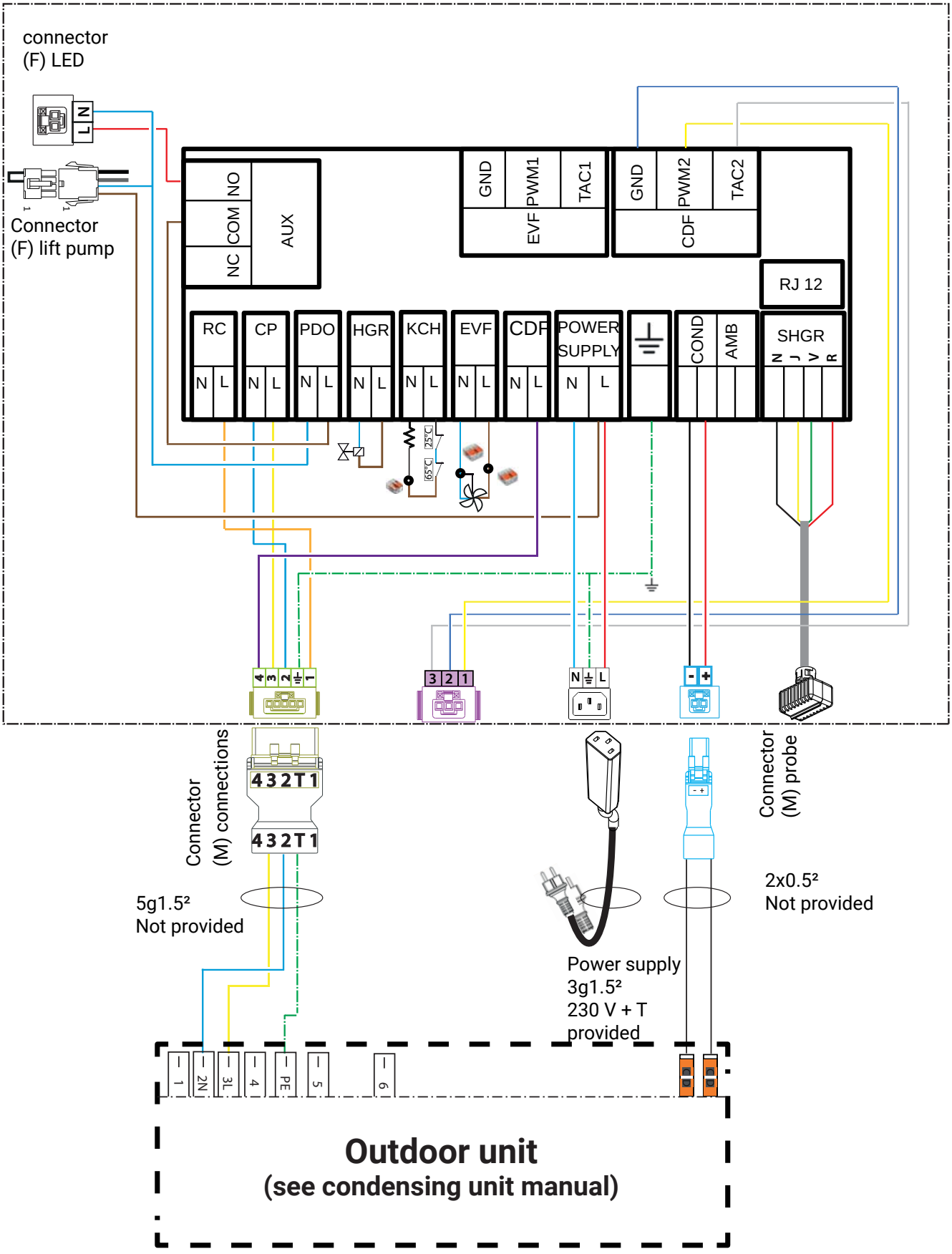
3. Snap the upper part of the housing strain relief.



6. Electrical wiring diagram GCH-GCG



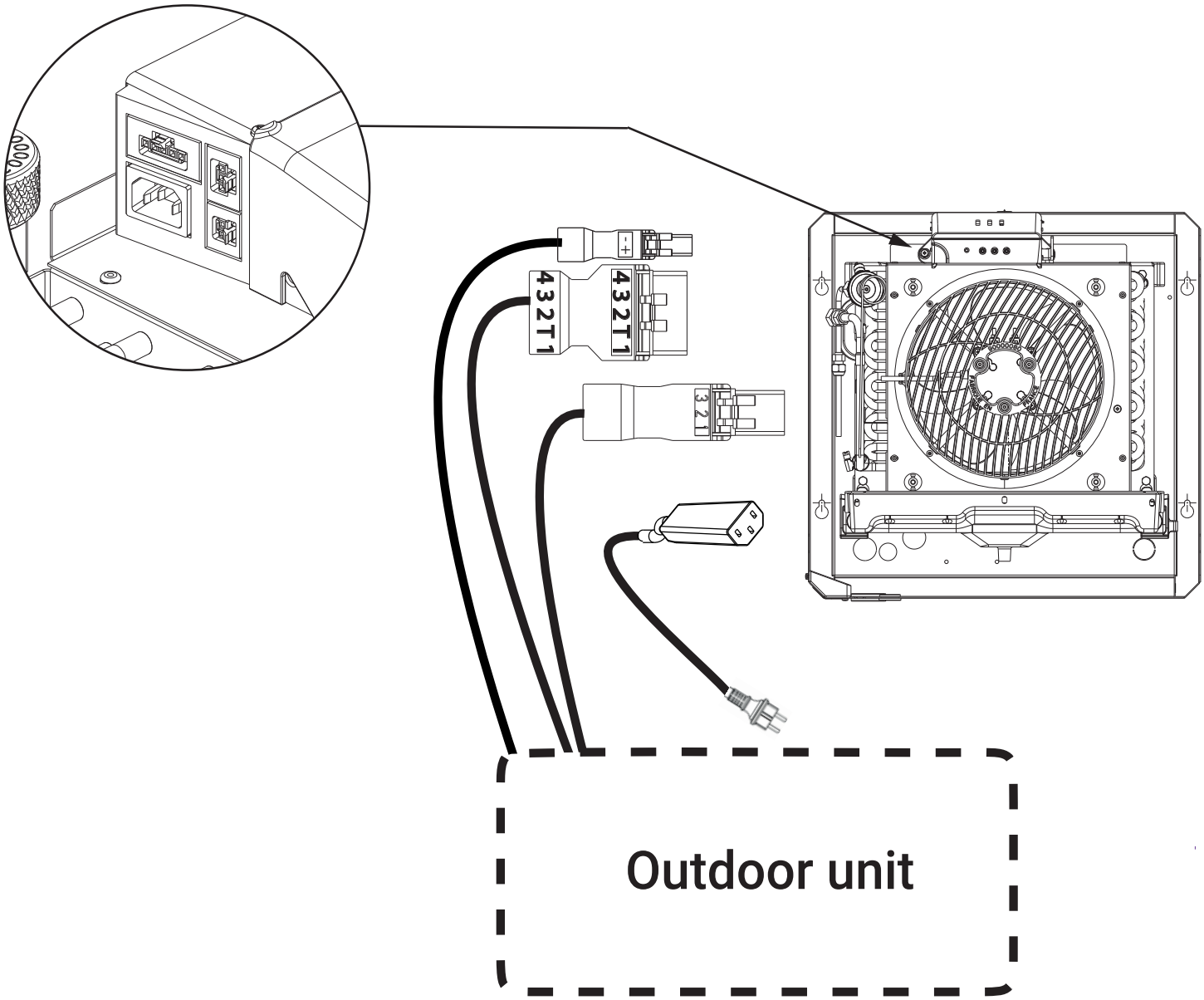
7. Electrical wiring diagram GCW



8. Electrical connection

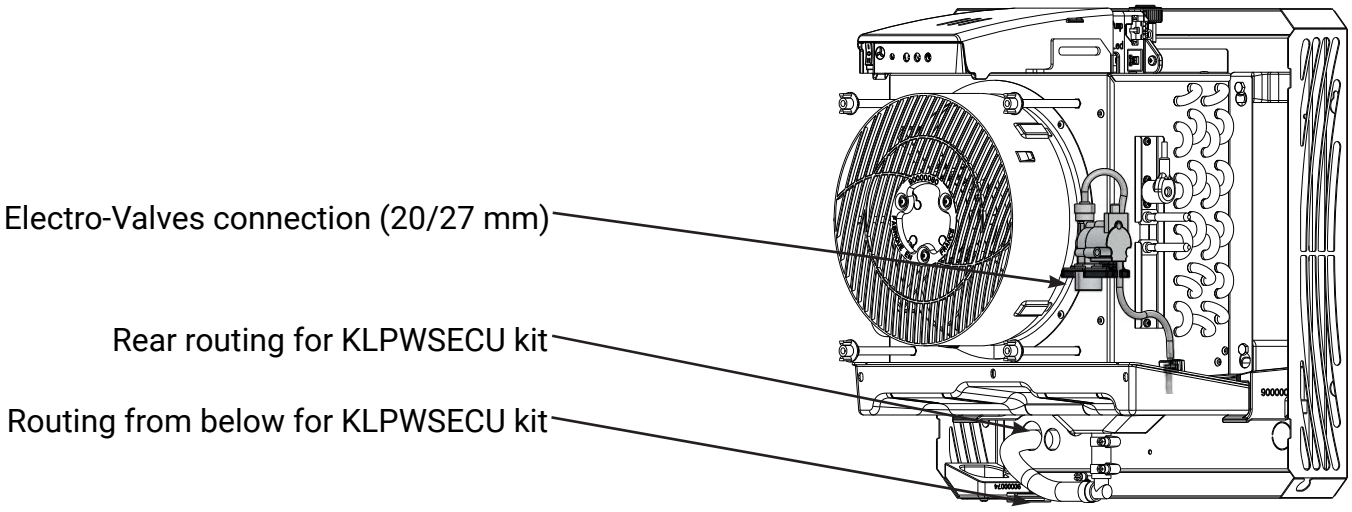
- Plug the indoor unit power cord into a mains socket.
- Connect the interconnection connectors from the outdoor unit to the indoor unit.
- Connect the outdoor unit probe connector to the indoor unit.

You will need a flathead screwdriver to unclip the connectors by pushing the tab aside.



9. Water connection for Vintage

Connect the water supply to the HGR% humidifier



In case of water pressure greater than 2.8 bars, the use of a pressure limiter kit KLPWSECU is essential.

10. Close the unit

To avoid any risk of injury or material damage, reinstall the white casing on the wine cellar side before powering up the unit.

- Remove the protective film from the casing

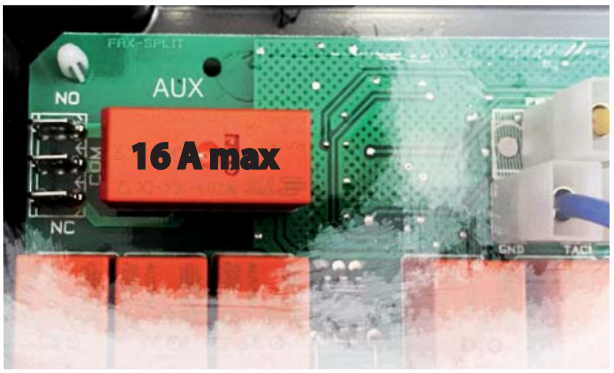
- Install the casing and tighten the wing nuts by hand without forcing

- Install the colored magnetic front panel (Friax logo facing upward)

- During commissioning, you may remove this casing to check that your hydraulic connections are watertight



Auxiliary contact

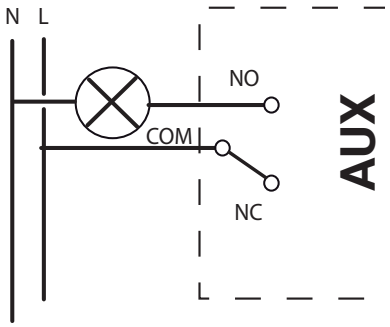


The card is equipped with an auxiliary contact COM-NO-NC
2 functions can be associated with the auxiliary contact:
- ECL lighting function
- Alarm reporting function

The card is basically programmed for lighting function.

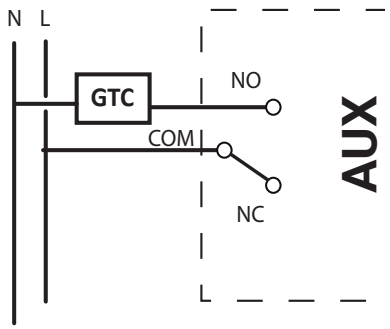
Lighting function:

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



Alarm report 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



Electronic Board Configuration for 50°C Condensation:

By default, FRIAX air conditioners are designed for a nominal capacity with condensation at 45 °C (Configuration 1) and a maximum outdoor temperature of 35 °C.
It is possible to increase the condensation temperature to 50 °C (Configuration 2) in cases where the installation is located in a region or country where the outdoor temperature is between 35 °C and 43 °C.

Procedure to switch to Configuration 2:

- Locate the control board of the air conditioner.
- Move the corresponding switch on the board to activate Configuration 2.
- Perform a hard reset to apply the modification.

Note:
This modification allows the air conditioner to adapt to local climate conditions. However, a performance loss of approximately 10 % should be expected in this configuration.



Configuration 1 :



Configuration 2 :



Maintaining your cellar air conditioner

The following maintenance operations, repeated **every 6 months**, will ensure that your air conditioner retains its optimum performance and lasts as long as you and your wine.

Warning!

Before any maintenance operations, turn off the device using the remote control then cut off the power supply at 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 body certifying the competence to handle refrigerant fluids.

Maintenance of the evaporator inside the cellar:

1. Switch off the power supply to the evaporator.
2. Open the casing and disconnect the drain pipe. Be careful of the water collected in the drain pan.
3. Use a vacuum cleaner and an air compressor fitted with a blow gun to remove dust from the coil and the fan. (Be careful not to damage the fins.)
4. Clean the drain pan with clean water, taking care to protect the electrical connections. Apply a non-oxidising, odourless bactericidal disinfectant such as KNET125 (sold separately) to eliminate biofilm-forming bacteria.
5. Check that the drain hose is not blocked, then reconnect it to the drain pan.
6. Check the drainage and watertightness of the drain by pouring a glass of water into the drain pan.
7. Check for refrigerant leaks using an electronic leak detector.
8. Close the casing.
9. Restore power at the main circuit breaker.

Maintenance logbook

DATE	COMMENTS	TECHNICIAN

NOTES

231/233 Rue de la Prairie
F-73420 Voglans

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Boite mail : info@friax.fr

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