Commissioning & operating instructions
RSF2



LAURÉAT
Réseau Entreprendre
SAVOIE

The characteristics given in this technical data sheet may change without prior notice as 'FRIAX Industrie' continues to improve its production.

EN-NT-SPCRSF2-1224

Caution



Read carefully

In winter, it is recommended never to cut off the power electrical of your air conditioner.
Friax air conditioners are equipped with a crankcase heater allowing them to heat the compressor in winter when it is stopped.
This resistance will be activated automatically as soon as the outside temperature is lower than that of your cellar and only if the compressor is stopped.
In this way it prevents the refrigerant from condenses in the compressor thus causing a "clash" liquid" when restarting.
This would result in degradation of the compressor.

Turning off the power supply stops this crankcase resistance.

However, if you wish to stop your device in winter, we recommend that you do this with the OFF Mode of the remote control. In this case the regulation of your Friax remains on standby and will activate the compressor heating if necessary.

Friax industry cannot be held responsible from improper handling of its devices.

Summary

General information ---- 4

Dimensions and weight ---- 4

Installing the Batteries ---- 4

Display and keys ---- 5-6

Commissioning ---- 7

Step 1 Remote control pairing ---- 7

Step 2 Reset the system by doing a reset ---- 7

Step 3 Starting the air conditioner ---- 8

Step 4 Setting temperature and humidity settings ---- 8

Step 5 Adjust the dFSE cellar fan speed ---- 9-10

Basic Operation ---- 11-12

User Menu ---- 13-14

Alarms ---- 15

Anomalies ---- 16

Menu table ---- 17

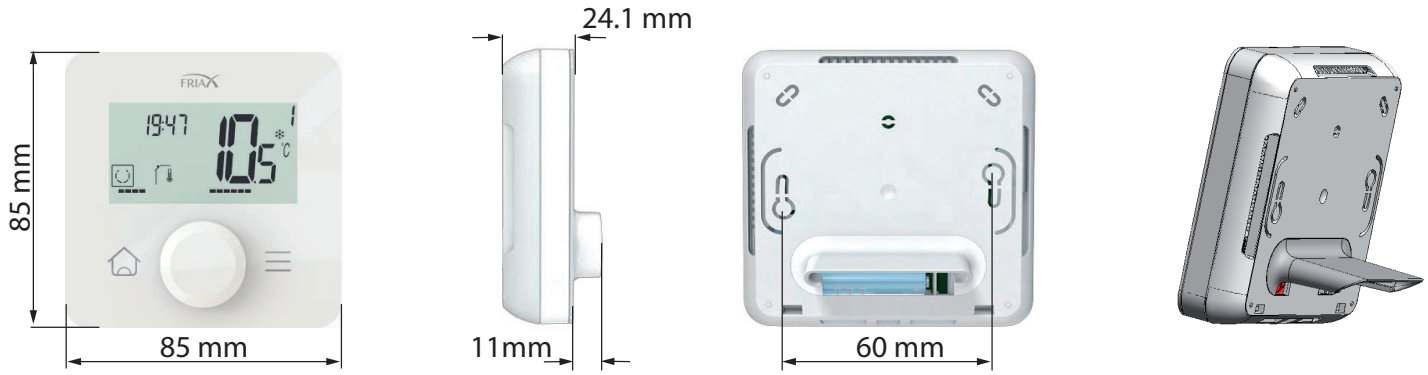
Menu Parameters User factory values (from 1 to 11) ---- 17

Menu architecture ---- 18-19

General information

The remote control can be installed in a room other than the cellar.
Its maximum range is 100m in the open field. This distance can be reduced due to the thickness of the walls and the location of the cellar.
Your remote control can be attached to a partition or placed on a table stand provided.

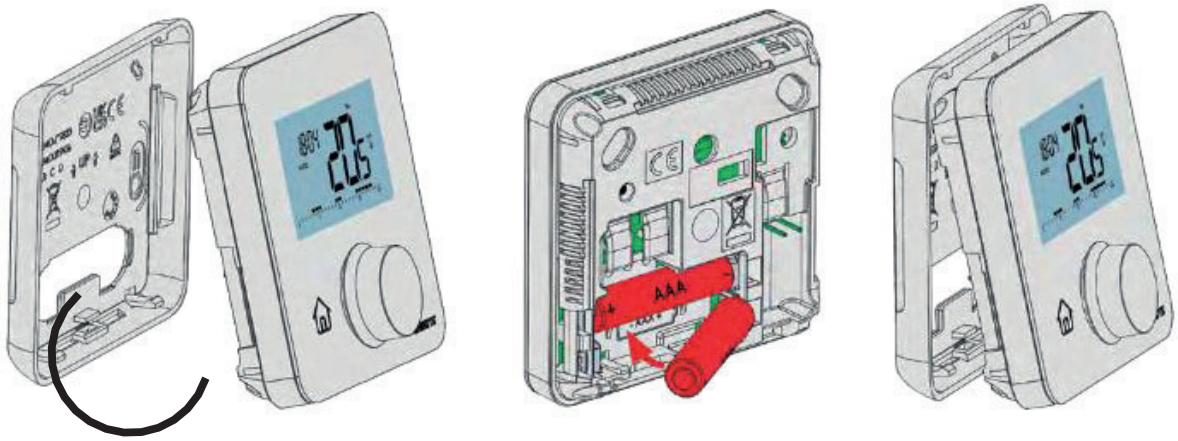
Dimensions and weight



Weight 115gr (Thermostat only)

Installing the Batteries

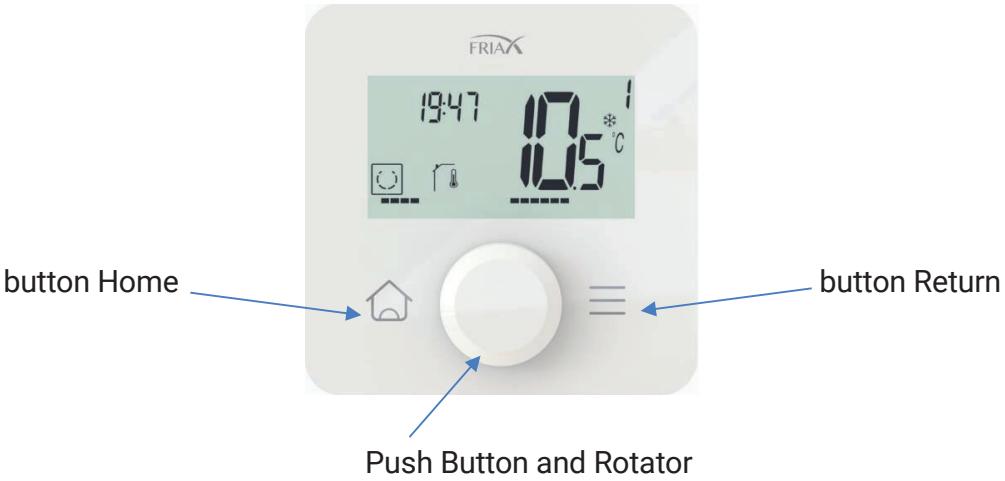
- Open the plastic cover and insert the 2 AAA batteries.
- Close the lid.



◆ *General note*

Replace the batteries when the remote control display no longer lights up or when the air conditioner no longer receives signals from the remote control (Rf) or when the low battery icon is displayed.
Remove the batteries if the remote control will not be used for more than a month.
Batteries last approximately six months depending on how often you use the remote.
Remote control batteries contain toxic substances, so used batteries should be disposed of in accordance with local laws.

Display and button



Description:

Left rotation OR Minus OR access previous menu when navigating menus.

Brief press: Product wake-up / Validation /.

Right rotation OR More OR access next menu when navigating menus.

Description of the 2 capacitive keys:

button Home : Short press on main screen allows switching between display setpoint/read value.
Pressing and holding for 2 seconds in all menus returns you to the main screen.

button Return: Short press on main screen toggles temperature/humidity display.
Short press in other menus allows you to return to the (previous) menu.

IMPORTANT NOTES:

-1- Radio communication is established to allow the remote control values to be refreshed
When:
-After turning off the backlight, press.
-After 3 minutes, the display refreshes in backlight off mode.

Remote start

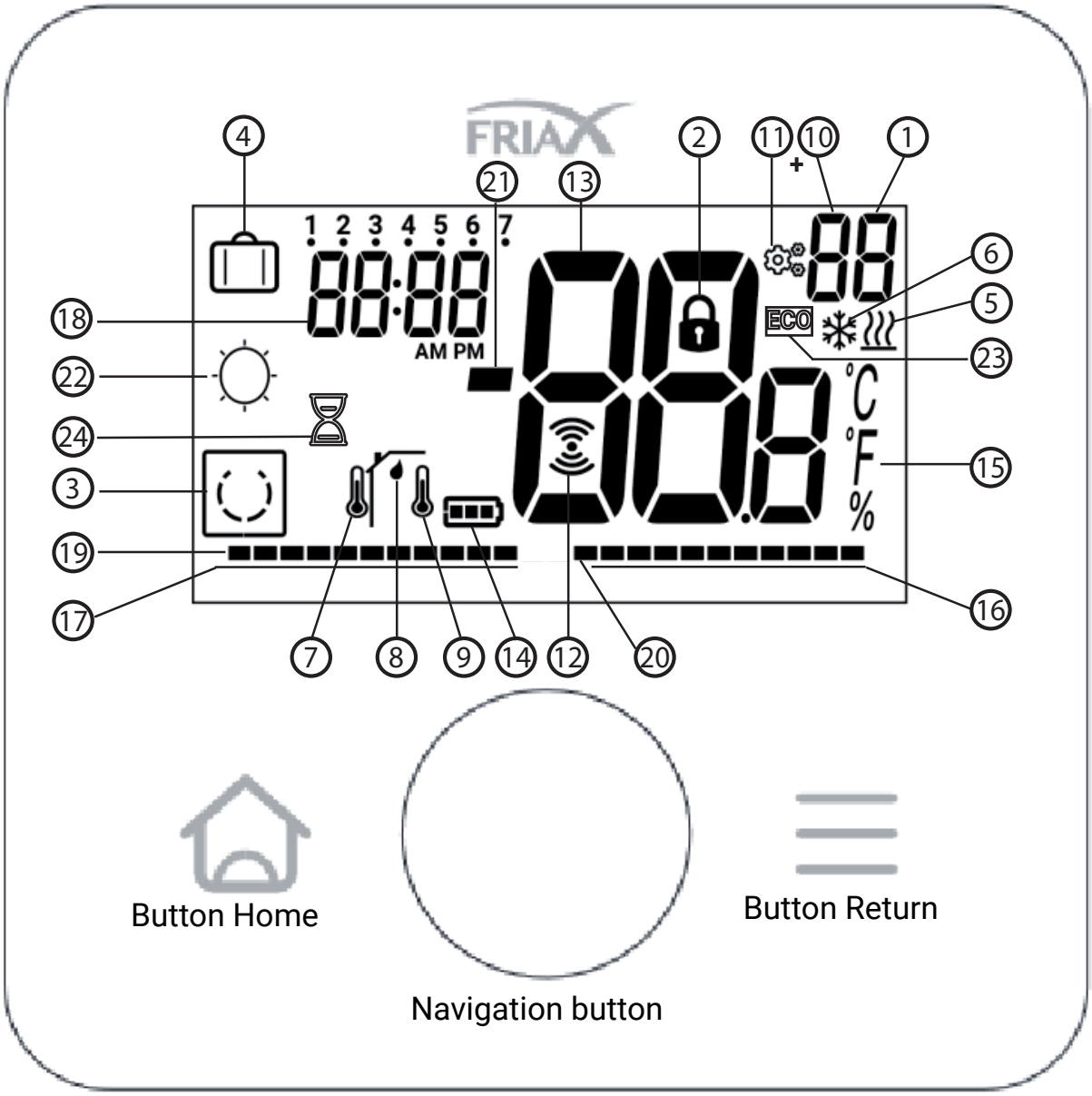
Startup timeline

1.All logos **2.Software version** **3. Waiting for recovery**



Remains in Hold RF display if :

- Product not yet associated
- Impossibility of communication with Split card

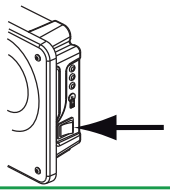
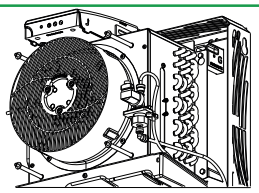
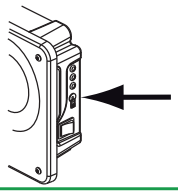
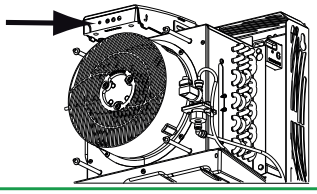
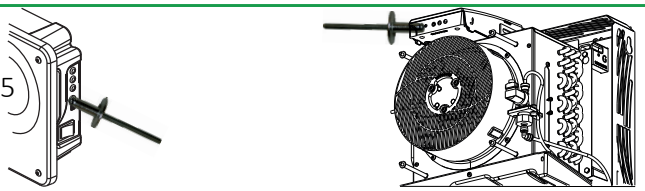
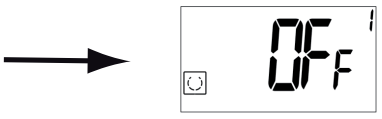


1. Configuration
2. Keypad lock
3. Compressor heating belt
4. Silent mode (EC motor)
5. Heating mode
6. Air conditioning mode
7. Condenser temperature probe
8. Humidification mode (Option)
9. Cellar temperature probe
10. Setting Number
11. Setting mode
12. Radio communication signal
13. Temperature or humidity (option)
14. Remote control battery charge level
15. Units: temperature (°C / °F) or humidity (%)
16. Condenser fan speed (EC motor)
17. Evaporator fan speed (EC motor)
18. hour (12 AM/PM or 24 hrs)
19. Present if there is an EC motor at the evaporator
20. Present if there is an EC motor at the condenser
21. Less for negative values
22. Lighting control
23. Standby mode
24. Wait 24 hours for compressor start

Commissioning

Be careful before this step
ensure that all electrical elements, wires, probes, etc. are properly connected. Without this, the functions of the probes and motors would not be taken into account.

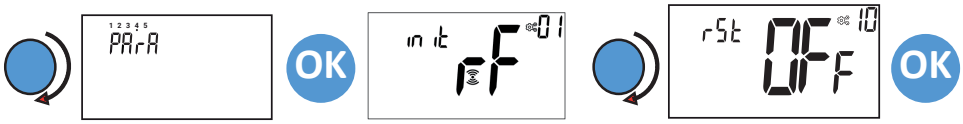
Step 1 - Remote control pairing (Only monoblocks are factory paired)

Pairing the regulation with the remote control	
Manipulations	**Remarks**
Switch on the device  or 	-The 3 LEDs light up -The red LED is solid after a few seconds
Remove the black protective cap from the pairing button  or 	
 Turn the rotator up to PARA 	The INIt Message flashes 
Using the tool provided, gently press the button for 5 seconds. then release. 	The green and orange LEDs light up
 Press  to pair the card 	The red LED becomes fixed on the card. The screen displays OFF and turns off. **Pairing is complete**

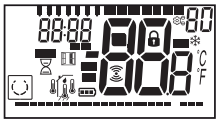
State of the regulator LEDs

Green LED = Operation
Orange LED = communication or waiting for pairing
Fixed red LED = air conditioner off
Flashing red LED = error

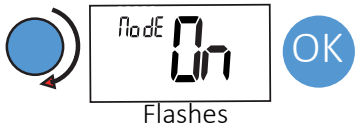
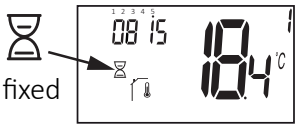
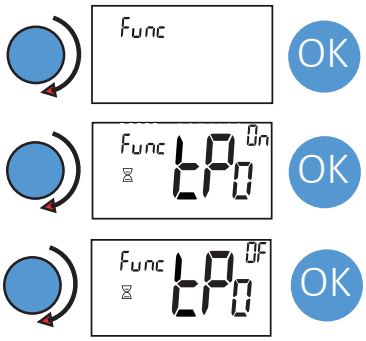
Step 2- Reset the system by doing a reset


Turn the rotator up to PARA



OFF Flashes

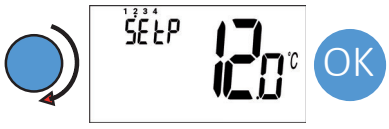
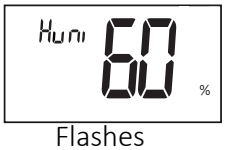
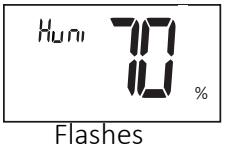
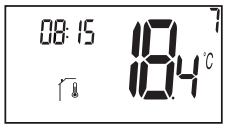

YES Flashes
Press 5s

Initialization

Step 3 - Starting the air conditioner

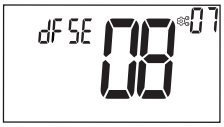
Functions	Manipulations	Displays	Remarks
Start the device with the remote control	 Flashes	 fixed	The device starts. If the light is fixed, the device is in preparation mode for 24 hours.
Shorten the preparation period by 24 hours**		Press 2 seconds to return to home   Disappears	The device starts either in hot or cold mode. If the setpoint is identical to the cellar temperature, the screen does not indicate any operating mode.

**It is best to let this period go to its end.

Step 4 - Setting temperature and humidity settings

Settings	Manipulations	Displays	Remarks
Set the temperature settings and humidity (on Vintage)		 Flashes	Displays the current temperature setpoint value
	Change the value with 	 Flashes	Displays the desired temperature set point value
	Change the value with OK	 Flashes	Displays the current humidity setpoint value (*Only on Vintage)
	Change the value with 	 Flashes	Displays the desired humidity set point value (*Only on Vintage)
	Change the value with OK		Returns to the display of measured values in the cellar

Step 5 - Adjust the dFSE cellar fan speed

Menu access User	Setting	Manipulations	Displays	Remarks
  OK  The parameter and its number flashes Scroll through numbers parameters with 	**dFSE** Adjusting the evaporator fan speed in the cellar	Access with OK Change value  Validate with OK	 	See below the value to set depending on the device
Exit the menu with the End parameter Exit the menu with the Home button	**END** 	Validate with OK Press for 2 seconds on 	 	Exiting the menu displays the main screen

DFSE SETTINGS TO BE MADE ON EACH DEVICE							
TYPE	20	30	48 / 50	82	122	170	230
MPCA	11	13					
MPCJ / EVX2		dFSE parameter not accessible. Fixed speed.					
MPCG		10	12				
EVPL		dFSE parameter not accessible. Fixed speed.					
EVX		10	12				
EVA / EVA2		9	9	8 / 9	9	9	
EVG / EVI		9	9	11	11	11	11
H2OA			9				
H2OX	dFSE parameter not accessible. adjustable by 3 position switch						

* For EVG and EVI, the factory set speeds are adapted to obtain the nominal flow rate for air pressure losses up to 20 Pa. If the pressure loss is higher (up to 100 Pa) you You can increase the speed by increasing the speed with the remote control. To optimize flow, read the “optimize fan speed” step.

For EVX, the speed corresponds to the nominal flow value of the standard wall-mounted device. You can increase this speed with the remote control as needed. For the value to be adjusted in this case follow the instructions in “optimize the fan speed” to obtain an optimal flow rate.

*For EVA, EVA2, H2OA the speed value corresponds to the operation of the device blowing freely upwards or downwards. The configuration of the cabinet or cellar in which the device is installed may limit its air flow due to pressure losses. In this case it is necessary to increase the speed with the remote control. To optimize flow, read the step “optimize fan speed”

Optimize fan speed

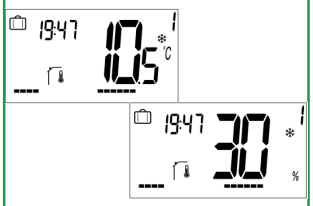
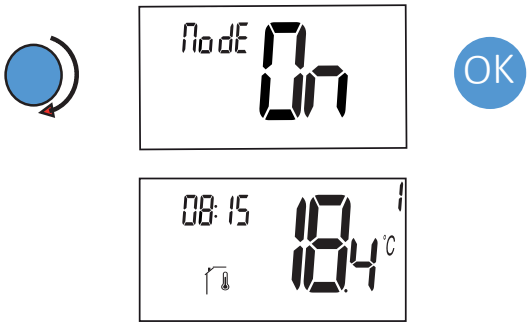
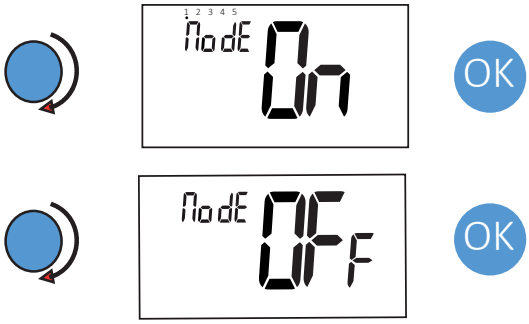
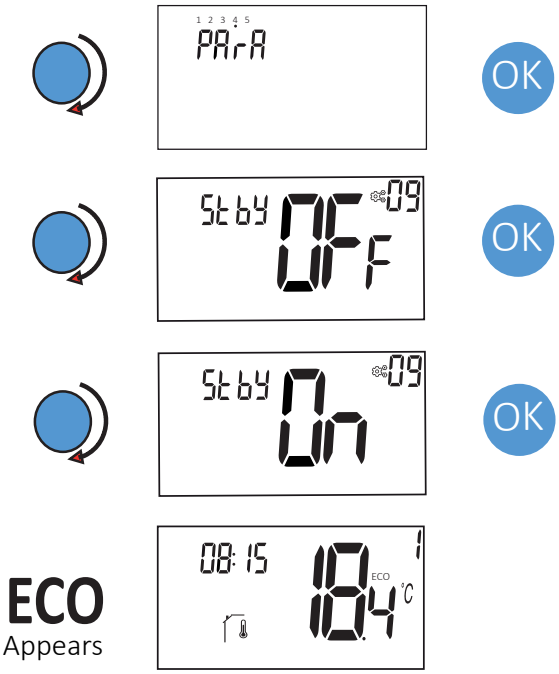
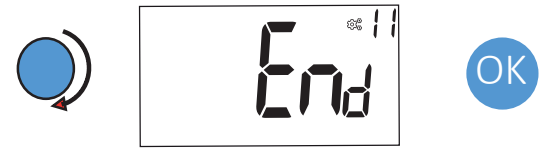
Depending on the configuration of the cellar, it will be more precise to adjust the air flow (speed) of the fan using an anemometer.
You will find the air flow value in the “technical data” table in the technical installation instructions for your device.

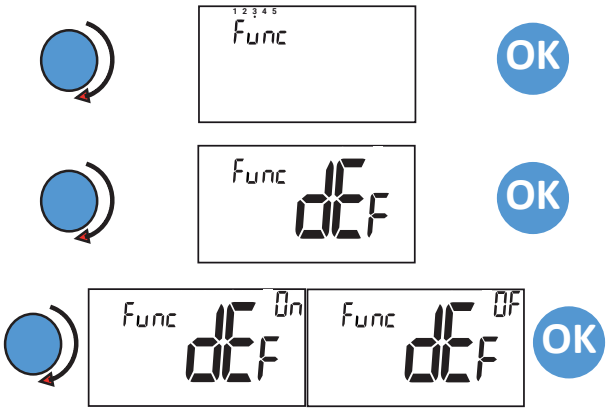
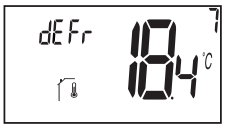
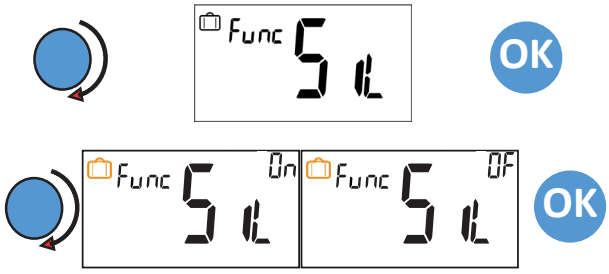
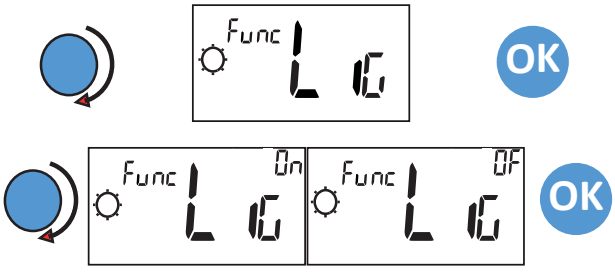
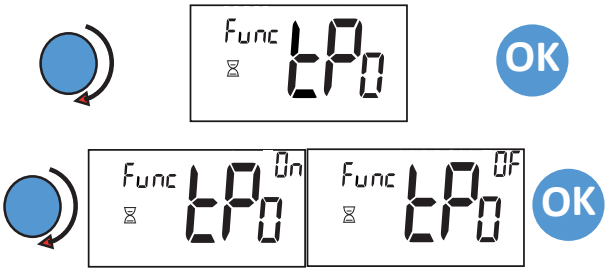
You can also adjust the air flow when the cellar temperature is close to the set point, by measuring the evaporation temperature using a manifold.
The devices are, in general, sized to have an evaporation temperature close to 0°C when the ambient temperature is 12°C.

-If the evaporation temperature is too low, increase the fan speed;
-If the evaporation temperature is too high, reduce the speed.

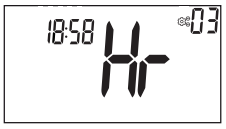
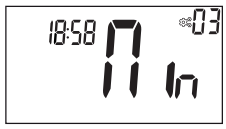
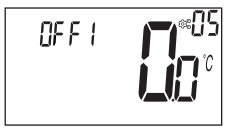
As variations are not instantaneous, allow the system to balance between two settings.

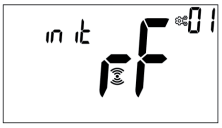
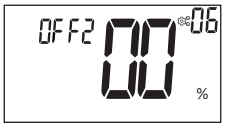
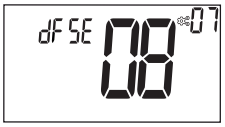
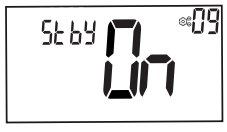
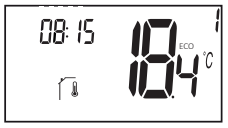
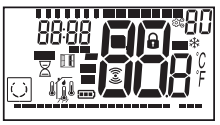
Basic functions

Functions	Manipulations	Displays	Remarks
Show cellar temperature or humidity	Press ☰		The screen alternately displays the temperature and humidity values (Only on Vintage)
Turn on the device with the remote control			The device starts. If the light ⌛ appears, the device is in standby mode. Redo Shorten the 24-hour preparation period of STEP 3.
Switching off the device with the remote control	 Display shows OFF and turns off after 20 seconds		Red LED on device The air conditioner is stopped but the RC compressor protection function remains active.
Put the remote control screen to sleep. Standby mode	 **ECO** Appears		The screen turns off after a few seconds. The device continues to operate.
Exit the user menu (PArA).			Return to main screen Auto exit after 20s
Exit from a main menu	Press 2s		Return to main screen Auto exit after 20s

Functions	Manipulations	Displays	Remarks
Lock the remote keypad	Press 3s on OK	Fixed	Manipulating the buttons no longer allows you to modify the settings
Déverrouiller le clavier de la télécommande	Press 3s on OK	Disappears	Buttons are accessible to change settings
Defrost mode Enable/Disable			Allows you to start manual defrosting in addition to automatic defrosting mode every 7 hours deFroSt scrolls on the screen 
Put the cellar fan in silent mode Enable/Disable			The fan switches to low speed for 10 minutes For evaporators with EC motor The fan returns to normal speed
Lighting control Enable/Disable			Switching on cellar lighting Switching off cellar lighting
Shorten the 24-hour preparation period Accessible only at startup, after a hard reset, after stopping the air conditioner by remote control then switch.			Switch the function to ON and validate to cancel the 24 hour period for start-up of the compressor.

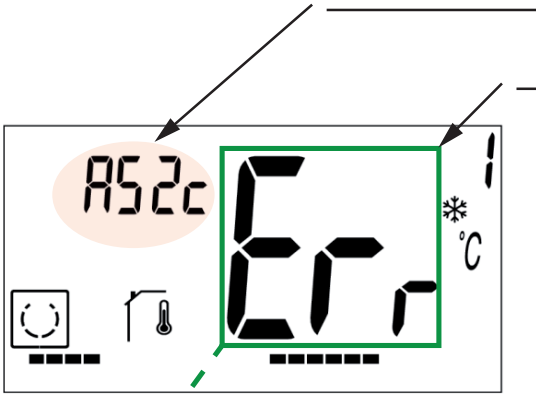
User Menu

Menu access User	Setting	Manipulations	Displays	Remarks
Access Menu   OK  The parameter and its number flashes Scroll through numbers parameters with 	Setting the 12 or 24 hour time display	Access with OK Change value  Validate with OK		Switches from 12 hour AM/PM mode to 24 hour display
	Time setting	Access with OK Change value  Validate with OK		Setting the times
Backspace within a parameter Brief press on 		Access with OK Change value  Validate with OK		Minute setting
Exit the menu with the End parameter  Validate with OK	Setting the temperature unit °C or °F	Access with OK Change value  Validate with OK	 	°C / °F setting
Exit the menu with the button HOME  Press 2s	Calibration of the temperature probe	Access with OK Change value  Validate with OK		This parameter is set to 0 at the factory. It can be modified in the event that there is a discrepancy between the set temperature and the actual temperature of the cellar.

Menu access User	Setting	Manipulations	Displays	Remarks
Acces Menu   OK  The parameter and its number flashes Scroll through numbers parameters with 	Calibrating the humidity probe	Access with OK Change value  Validate with OK		This parameter is set to 0 at the factory. It can be modified in the event that there is a discrepancy between the displayed humidity and the actual humidity of the cellar. Only on Vintage
	Adjusting the evaporator fan speed in the cellar	Access with OK Change value  Validate with OK		This parameter must be set at the recommended speed on the evaporator data page.
Backspace within a parameter Brief press on 	Adjusting the fan status when the set point is reached EC motor => PV AC motor => GV OFF: Off ventilation to cold setpoint and humidification.	Access with OK Change value  Access with OK	  	Leaves ventilation on continuously when the device reaches its temperature and humidity settings. Switches to low speed when EC engine. It is recommended to leave this parameter enabled when the evaporator is ducted
Exit the menu with the End parameter  Validate with OK	Put to sleep the screen of the remote. Standby mode	Access with OK Change value  Validate with OK	 ECO Appears 	The screen turns off after a few seconds. The device continues to operate. Press. One touch to activate the screen.
Exit the menu with the button HOME  Press 2s	Reset procedure Step 2 on page 8 of the instructions.	Access with OK Change value  Validate with OK		

Description and display of errors

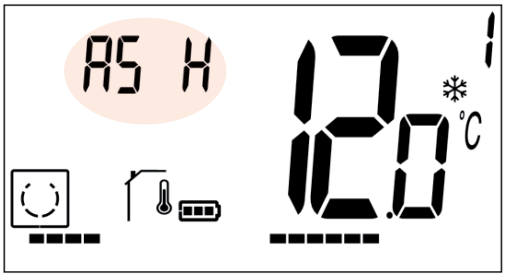
Errors are displayed by text replacing the clock indication in ON modes and STANDBY with the following possible texts:



For **AS1C** probe errors and **AS2C**, the flashing '**ERR**' text replaces the temperature value.

Display order (prioritization)		Alarms Kind	Error naming
-	12:00		Time displayed = no error
1er	AS1C	2	Cellar temperature sensor cut-off (ntc10k)
2e	AS2C	2	cellar temperature probe (sht)Cutting
3e	ASO	2	Cellar temperature overheating
4e	AS3O	2	Condenser temperature overheating
5e	AVEc	2	Evaporator fan fault
6e	AVCc	2	Condenser fan fault
7e	A SL	1	Low threshold cellar temperature
8e	A SH	1	Cellar temperature high threshold
9e	AhRh	1	Cellar humidity high threshold
10e	AS3c	1	Condenser temperature sensor fault
11e	AS3h	1	Condenser temperature high threshold
12e	ArF	1	Loss of radio frequency communication

Example 2:



When an error is present, the corresponding error text is displayed instead of the indication of the time and the remote control backlight flashes 2 times 0.5s every minute.
Precision, this management of the backlight in the event of an error will not be done in OFF mode.

Only one alarm is displayed at a time in order of highest priority, example:
If 2 errors are present, AS3O and AS3H, only AS3O will be displayed because it has a higher priority important, given that this alarm is type 2 and the other is type 1.
For troubleshooting, you must first resolve the visible error before seeing the following alarms if multiple alarms.

Anomaly

Anomaly	Recommended action
Nothing happens at startup.	Check power supply and terminal connections power supply and the status of the LEDs.
The ventilation starts but the compressor does not start.	Check that heating mode is not engaged See step 3 shorten the 24-hour wait mode getting started page 8. Check the power supply to the group and the safety chain of the LP and HP pressure switches.
The installation works but does not not cool enough	Depending on the number of bottles stored, the air conditioning may take several days to reach the temperature setpoint. Friax air conditioners are designed to operate in a ventilation-free environment. Check the insulation of the frames, check that there is no natural air inlet.
Humidification works non-stop	It is possible that the characteristics of the room (composition of the walls) do not allow high instructions to be achieved (>70%).
Water is leaking from the evaporator other than through the overflow.	The evaporator must absolutely be level. Check the drainage of the tank, it must not be obstructed. Check that the gauge pressure with the siphon is sufficient for water evacuation on ducted evaporators.
The evaporator freezes	-Start forced defrosting, refer to the function table on page 12. If after 30 minutes the ice has not melted, turn off the appliance until it has completely melted. Once the ice cream has melted Check the following points. -Check that the compressor is no longer running when it reaches set point. -Check the charge at the liquid indicator in the outdoor unit. -Check BP pressure -Check the operation of the evaporator fans. -Check for leaks in the installation and in the air conditioner.

Menu Table

Menu Parameters User factory values (from 1 to 11)

This menu is primarily intended for the user for basic air conditioner settings.

N° setting	TEXT	CONFIG 1	CONFIG 2	Désignation	Setting range	Comment
User Settings Menu						
01	InIt rF	Paring remote control with regulator				
02	Hour	12h	12h	Time display	24h	0
					12h AM/PM	1
03	Hr			Time setting (hour + minute)		
04	dEG	°C	°C	Unit of measurement T°	°C	0
					°F	1
05	OFF1	0	0	S1 ambient temperature probe calibratic	-5 °C à +5 °C	Adjustment by 0.1
					-9 °F à +9°F	
06 *	OFF2	0	0	S2 hygrometry probe calibration	-20 à 20%	Setting by 5
07	dFSE	12	12	Fan speed correction evaporator in GV	Position from 1 to 20	Setting by1 (steps of 0,3 V)
08	FstY	0	0	Fan status in neutral zone	0: Stopping ventilation	0
					PV: low speed	1
					GV: high speed	2
09	StbY	OFF	OFF	Activation of Standby mode	On or Off	
10	rst	No	No	Split card reset + Remote control	Yes (long press OK 3sec) or No	
11	End	Exit User Settings Menu				

Exit from the user menu takes place 30 seconds after the last user action.

Read-only menu Monitoring

This menu is intended for reading the output states of the card and the analog readings of the probes.
It is mainly intended for installers to have information on the operation
of the air conditioner0

AFSS menus	TEXT	under menu	Number	Désignation	Displayed value range
After-sales service menus - Access without code by Menu **MONI** with long press OK 3sec					
C1	tAmb	U1	1	Cellar probe temperature (NTC 10k ambient)	°C / °F and Err display if fault
	thum	U2	2	Cellar probe temperature (SHT sensor)	°C / °F and Err display if fault
	humr	U3	3	Cellar humidity probe (SHT sensor)	% and Err display if fault
	tCon	U4	4	Condenser probe temperature	°C / °F and Err display if fault
	Tele	U5	5	Remote control probe temperature	°C / °F and Err display if fault
C2	rcon	U1	1	Condenser relay status	On or OFF
	reva	U2	2	Evaporator relay status	On or OFF
	r ch	U3	3	Heating relay status	On or OFF
	rhGr	U4	4	Triac humidity status	On or OFF
	r cP	U5	5	Compressor relay status	On or OFF
	r rc	U6	6	Crankcase resistance relay status	On or OFF
C3	FanC	U1	1	Fan voltage Condenser	from 0 à 100 (step of 0,1V)
	FanE	U2	2	Evaporator fan voltage	from 0 à 100 (step of 0,1V)
C4	CtP	U1	1	Total compressor operating time	from 0h to 65535 simple display without adjustment
	Fet	U2	2	Total evaporator fan operating time	from 0h to 65535 simple display without adjustment
	Fct	U3	3	Total condenser fan operating time	from 0h to 65535 simple display without adjustment
	Cht	U4	4	Cellar resistance operating time	from 0h to 65535 simple display without adjustment
C5	End				

Exit from the monitoring menu after 5 minutes after the last user action with an RF refresh of data every 3 seconds within this menu.

Menu architecture

Main Mode



Rotation

Choice of one submenu of selection

1 2 3 4 5 nodE On

OK

1 2 3 4 SEtP 12.0 °C

OK

1 2 3 4 5 Func

OK

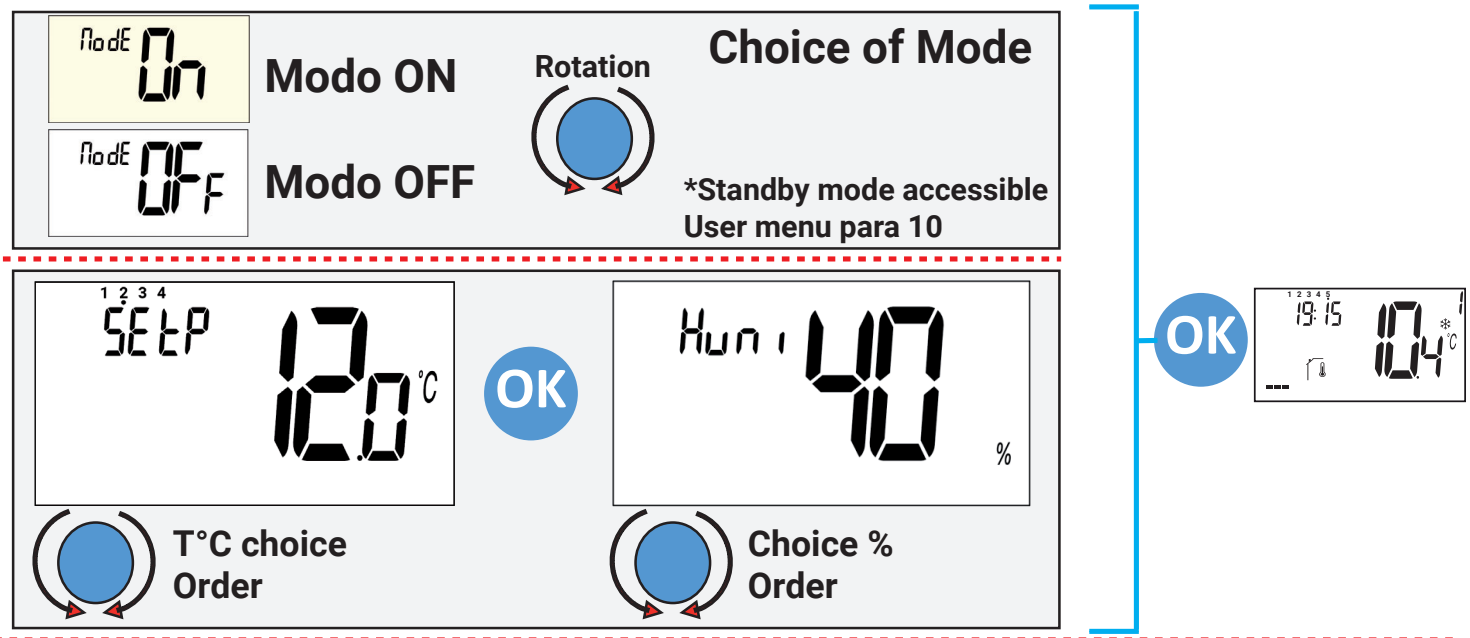
1 2 3 4 5 PArA

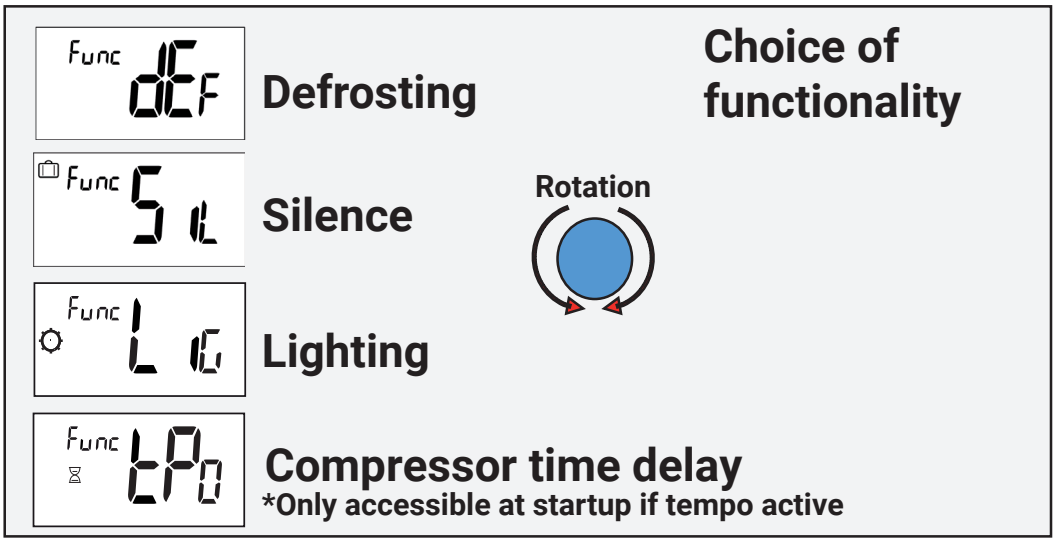
OK

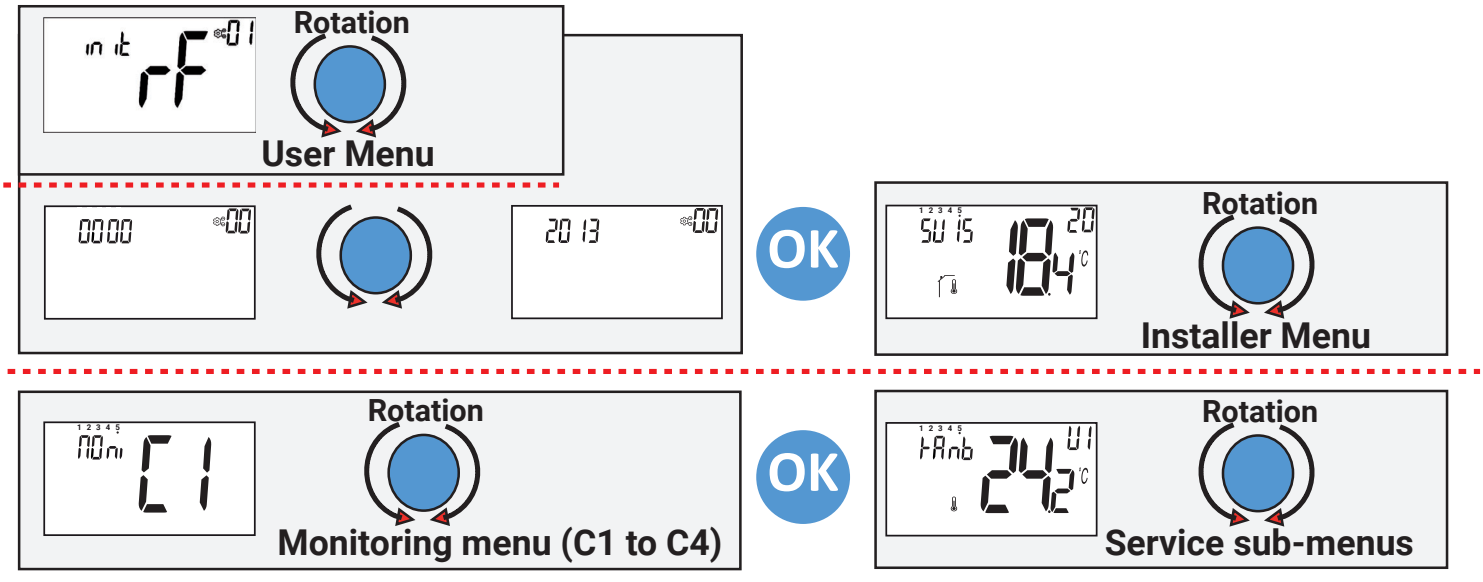
OK
3 sec

1 2 3 4 5 MOnI

OK
3 sec


Choice of Mode
Modo ON
Modo OFF
Rotation
*Standby mode accessible
User menu para 10
SEtP
12.0 °C
T°C choice
Order
OK
Hum 40 %
Choice %
Order
OK


Choice of
functionality
Defrosting
Silence
Lighting
Compressor time delay
*Only accessible at startup if tempo active
Rotation


Rotation
User Menu
OK
Rotation
Installer Menu
Rotation
Monitoring menu (C1 to C4)
OK
Rotation
Service sub-menus

231/233 Rue de la Prairie
F-73420 Voglans

Site web : www.friax.fr
Boite mail : info@friax.fr

Découvrez notre gamme de rangement pour la cave !

VisioRack®

L'agencement du vin

www.visiorack.com



FR

Cet appareil, ses accessoires et cordons se recyclent

À DÉPOSER EN MAGASIN



OU

À DÉPOSER EN DÉCHÈTERIE



Points de collecte sur www.quefairedemesdechets.fr
Privilégiez la réparation ou le don de votre appareil !