

Always read the instructions before use

YOSHI[®] AWS E1 Yoshi Air Water System

CONTROL PANEL USER'S MANUAL

8-10-13-16-20-25 HP



■ Important information

- The end user must receive all of the necessary safety information as well as a copy of the user's manual.
- This manual must be kept in a safe place together with all of the documents supplied.

Tecnocasa s.r.l. declines any responsibility for any damage whatsoever caused through the partial or superficial reading of the information in this manual.

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English

1 Control panel

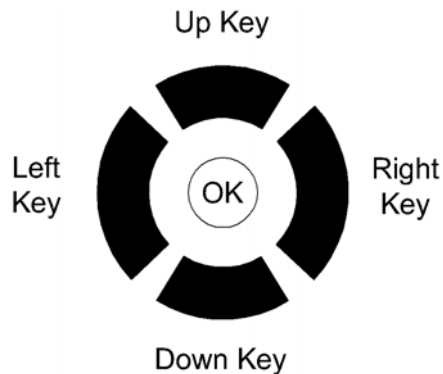
The YOSHI AWS has a control panel for adjustment and control, installed inside the control box and illustrated in the figure below.

The user has the possibility to select some options concerning the operation of the YOSHI AWS and to check the type of any anomalies.



1.1 Using the control panel selection keypad

To navigate inside the menu, use the following selection keypad



1.2 Key functions

Use the “Up” and “Down” keys to scroll through the list of options on the menu.

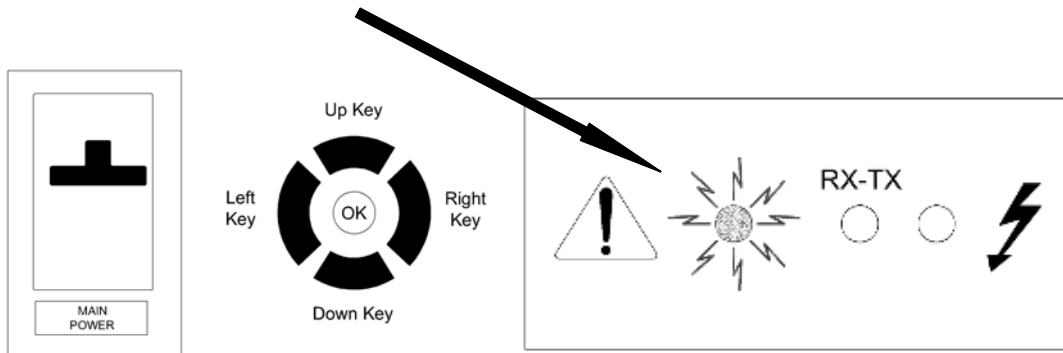
The “OK” button is used to select the required function and to confirm settings. The “Right” and “Left” keys are used to exit the selected mode.

1.3 ON / OFF AWS Yoshi


To turn on the AWS there are two ways: directly from the control panel installed on board of the module (**local procedure**), or via a switch located at a distance from the module (**remote procedure**). The procedure will be selected by the service centre at the first start of the hydronic module.

Switching on by local mode

Supply power to the YOSHI AWS by raising the main breaker; select the on/off option by using the cursor to bold the word and then press the “OK” key. The red LED shown by the arrow will switch on.



To switch off the AWS, select the on/off option again and press the “OK” key. The red LED shown by the arrow will switch off.

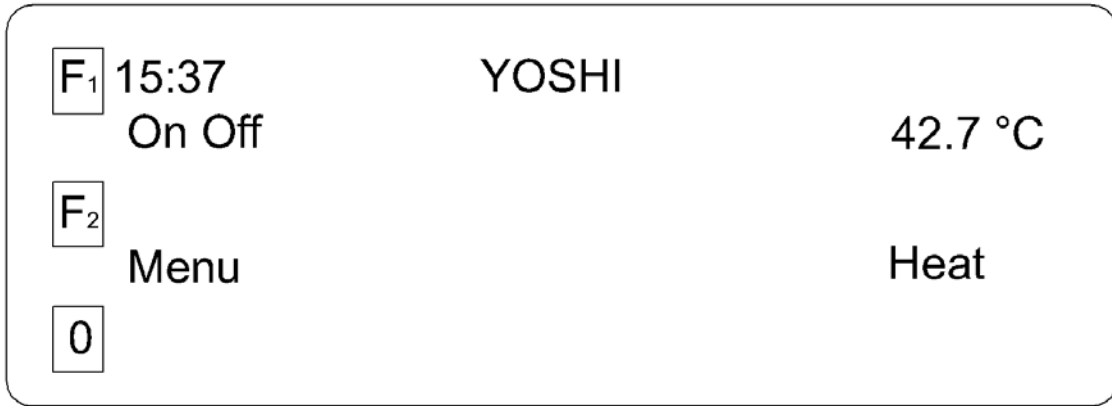


Warning: electric shock hazard

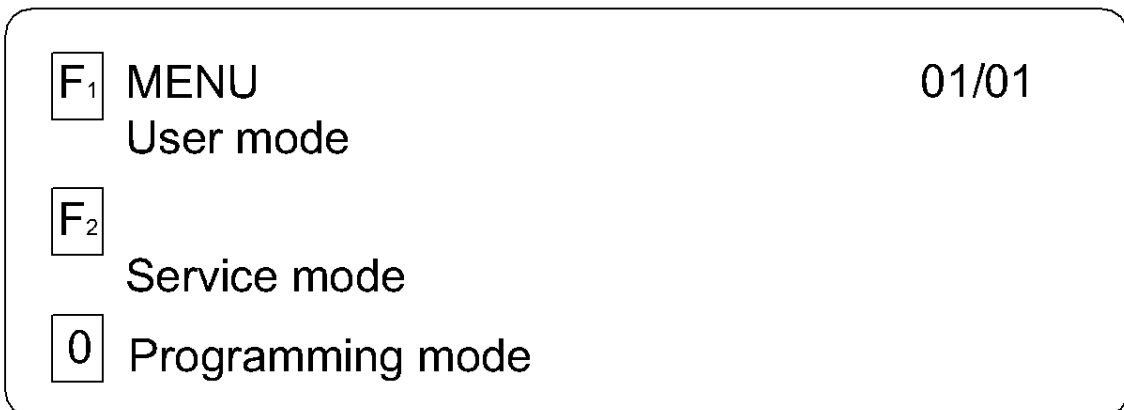
Electrical panel voltage. Protect yourself from unwanted incoming water in the event you need to remove the protective cover.

1.4 User mode

The adjustment and control options available to the user are all in the “user mode menu” which is opened from the “user mode menu” on the main screen here below, where the time, water return temperature, and the operating mode being used (heating/cooling) are all available.

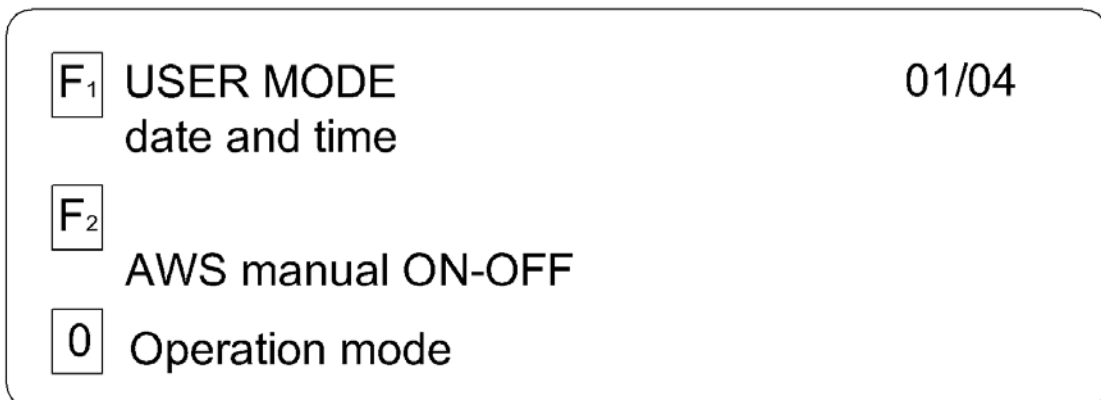


Use the selection keypad to the right of the display to select the “**menu**” option, followed by “**user mode**”.



The “user mode menu” gives access to the following functions:

Screen 01/04



Screen 02/04

F₁	USER MODE	02/04
	Weekly timer setting	
F₂	Tset heat	
0	Tset cool	

Screen 03/04

F₁	USER MODE	03/04
	Modulation range	
F₂	Ongoing error	
0	Error log	

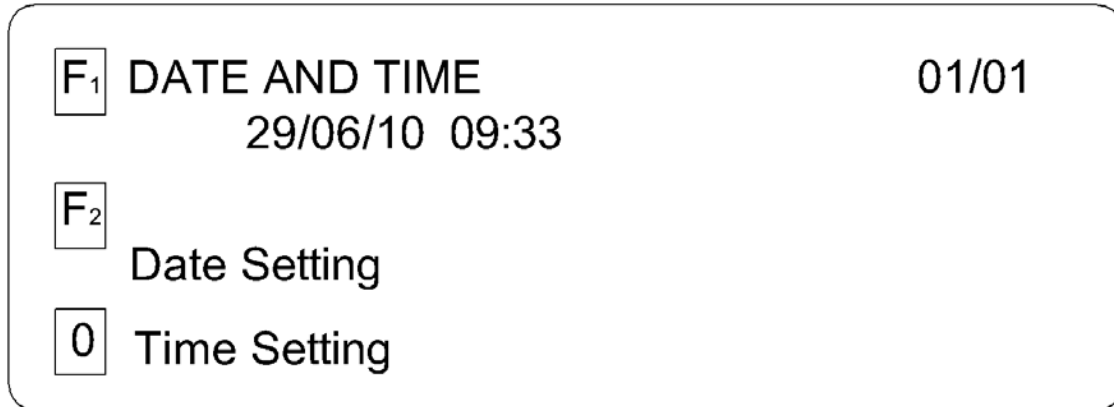
English

Screen 04/04

F₁	USER MODE	04/04
	Error reset	
F₂		
0		

2 Date and time setting

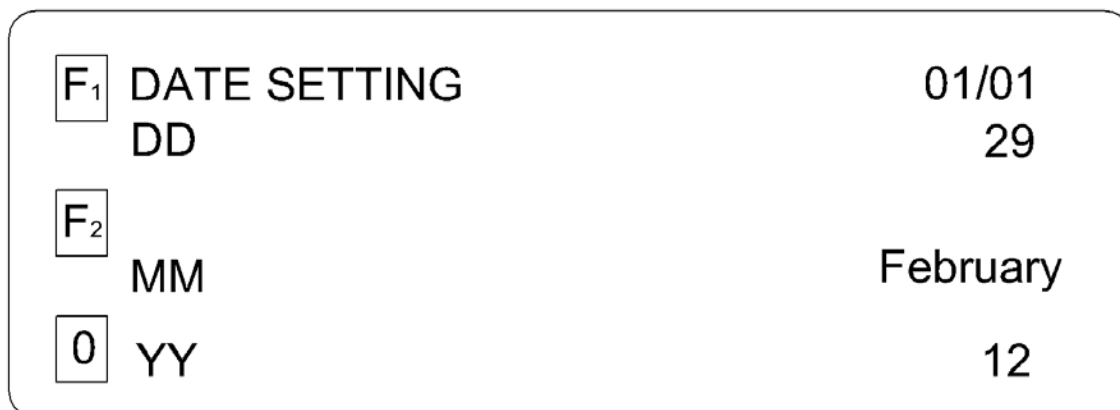
2.1 Date and time menu



This function serves to set the date and time, as follows:

a) Date setting

Select **change date**. You open the following screen

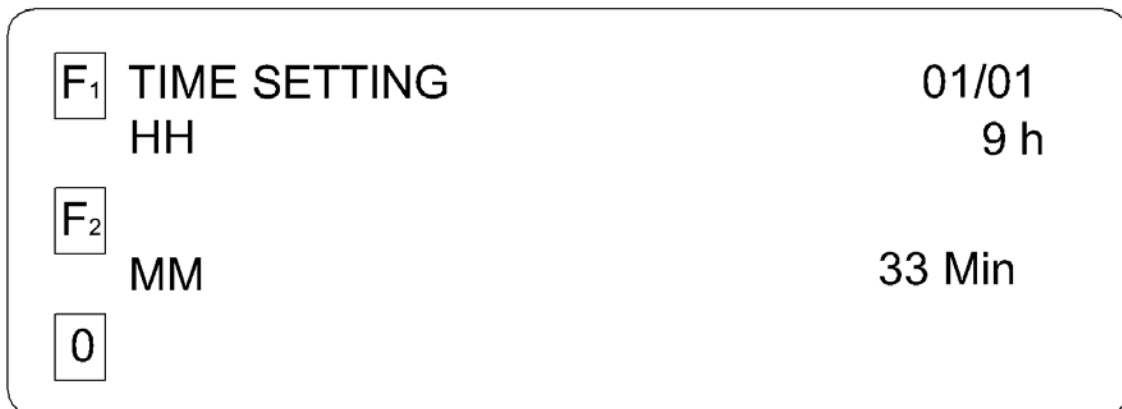


With the key "OK" select "**DD**". Press again the key "OK". The cursor will blink. Press the top key to scroll through the days until what you want to set. Press "OK" to confirm. Left key to exit the setting menu date.

The same procedure is followed **to set the month and year**.

b) Time setting

To set the hours and minutes follow the same procedure for setting the date



3 Heat/cool setting

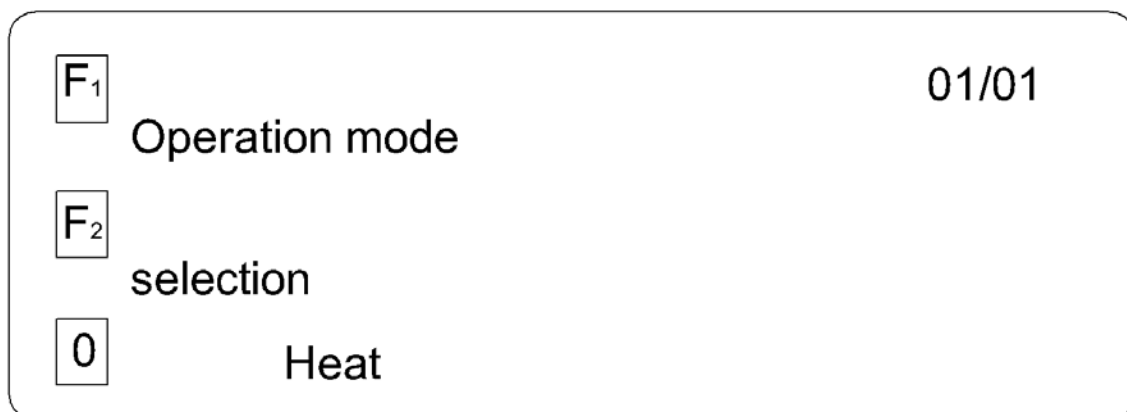
3.1 Menu operation mode (cooling / heating)

To choose **the cooling or heating mode**, select **operation mode** in the screen 01/04 in the USER MODE menu.

There are two ways to select the operating mode: directly from the control panel installed on board of the module (**local procedure**), or via a switch located at a distance from the module (**remote procedure**). The procedure will be selected by the service centre at the first start of the hydronic module.

Local mode control

To select the required mode, press the "OK" key. Use the up or down key on the pad to select the operating mode. Press "OK" again to confirm the chosen option.



4 Programming operating times

4.1 Timer programming menu

Select the screen 02/04 of the USER MENU "Weekly timer setting".

This menu is comprised of the following three pages:

Page 01/03

<input type="checkbox"/> F ₁	SETTINGS	01/03
	Weekly Timer	Off
<input type="checkbox"/> F ₂	Monday	
<input type="checkbox"/> 0	Tuesday	

Page 02/03

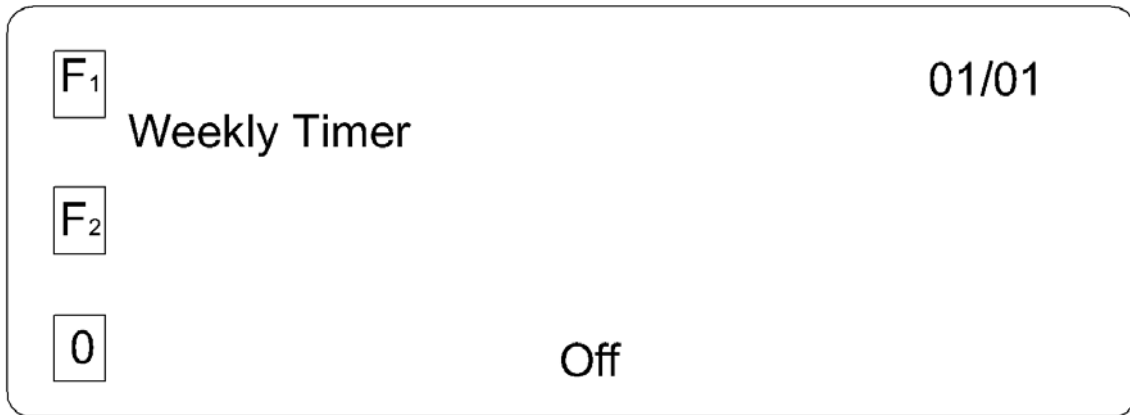
<input type="checkbox"/> F ₁	SETTINGS	02/03
	Wednesday	
<input type="checkbox"/> F ₂	Thursday	
<input type="checkbox"/> 0	Friday	

Page 03/03

<input type="checkbox"/> F ₁	SETTINGS	03/03
	Saturday	
<input type="checkbox"/> F ₂	Sunday	
<input type="checkbox"/> 0		

4.2 Programming the operating times: Timer

Selecting the **Weekly Timer** function the screen below will open



To control **the on and off** functions of the YOSHI AWS **with the timer**, use the "OK" key to select **Off (timer disabled)** or **On (timer enabled)**.

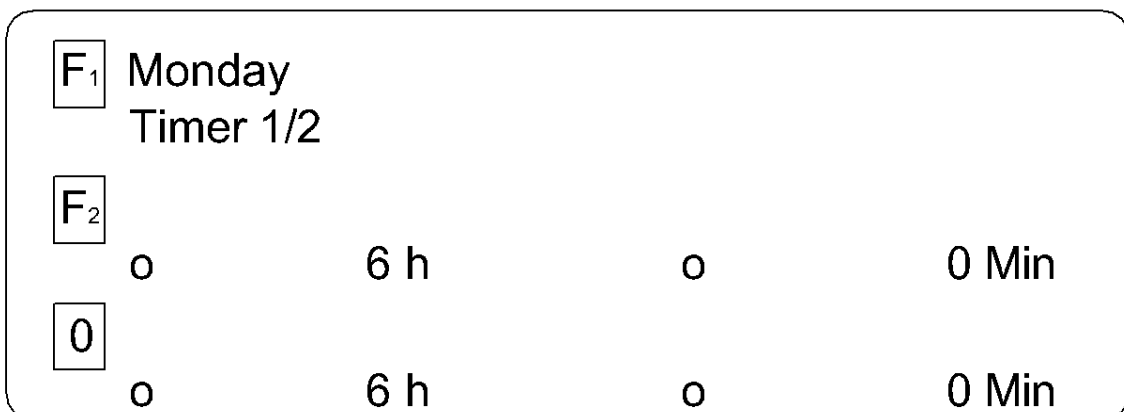
Confirm the selection with the "OK" key.

4.3 Setting the YOSHI AWS operating times

It is possible to set two time intervals for operation **for every day of the week**. Each interval will have a start and stop time for the AWS.

Time interval 1)

This interval is represented by the following screen: **Period 1/2**



The **F2** line represents the starting time for the AWS. The **0** line represents the stopping time for the AWS.

To set the required hour, select the “o” symbol, press “OK”, and use the up and down keys on the keypad to select the time. Press the ”OK” key to confirm the setting.

The same process is used to set the minutes.

Time interval 2)

This interval is represented by the following screen: **Period 2/2**

F₁	Monday				
	Timer 2/2				
F₂					
	o	6 h	o	0	Min
0					
	o	6 h	o	0	Min

The **F₂** line represents the starting time for the AWS. The **0** line represents the stopping time for the AWS.

To set the required hour, select the “o” symbol, press “OK”, and use the up and down keys on the keypad to select the time. Press the ”OK” key to confirm the setting.

The same process is used to set the minutes.

Repeat these steps to select the operating intervals for the remaining days of the week.

Note: It is only possible to switch the AWS on/off manually (from the control panel or remote switch) if the timer is set to “Off” or during the times outside of the set operation intervals.

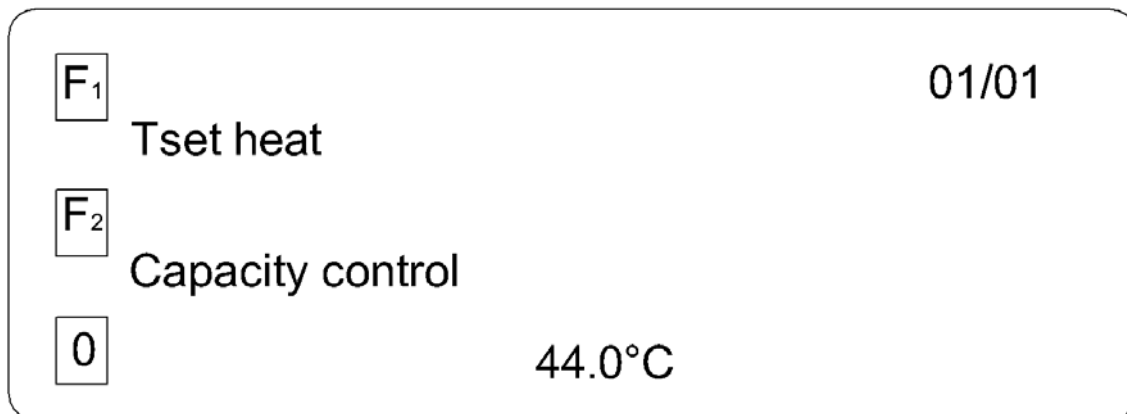
5 Setting the set point temperature

The default settings for the thermostat set point are:

- HEAT mode: T set heat = 44°C
- COOL mode: T set cool = 8°C

5.1 T set heat (heating)

To set the set point temperature for heating, select the function “T set heat” from screen 02/03 of the “**user mode menu**” and the following screen will open



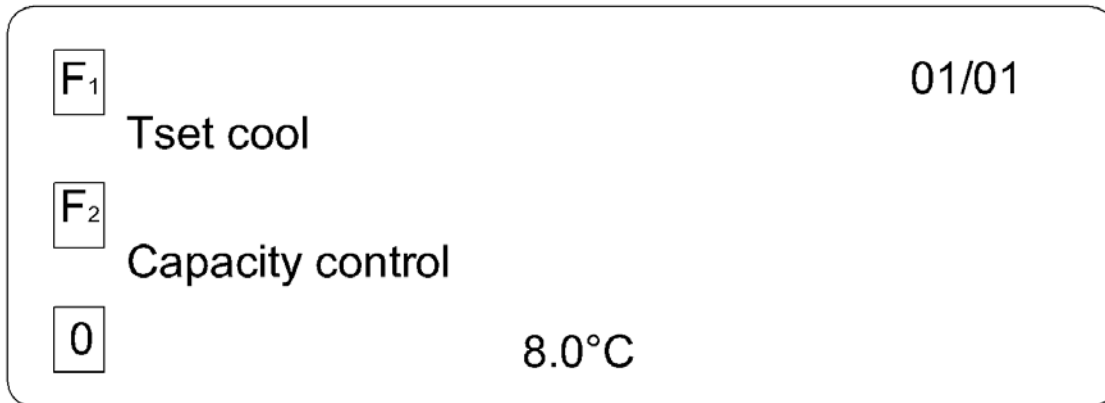
Select the highlighted temperature with the “OK key. Use the up and down keys on the keypad to increase or reduce the temperature on the screen,

(adjustable maximum temperature 48.0°C, minimum temperature 30.0°C).

Press the “OK” key to confirm the new temperature setting.

5.2 T set cool (cooling)

To set the set point temperature for cooling, select the function “T set cooling” from screen 02/03 of the “**user mode menu**” and the following screen will open



Select the highlighted temperature with the “OK key. Use the up and down keys on the keypad to increase or reduce the temperature on the screen.;

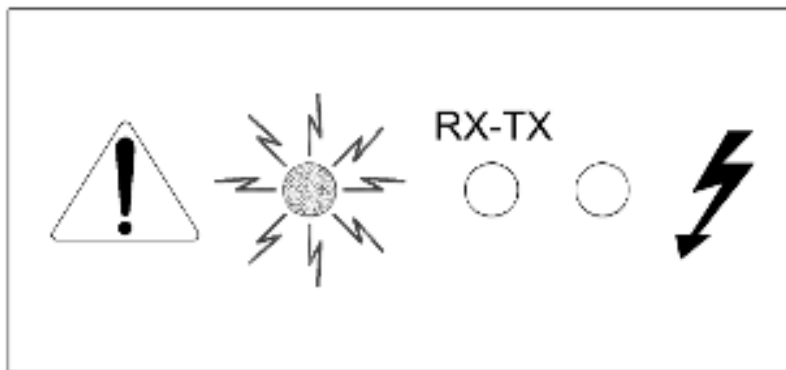
(adjustable maximum temperature 15.0°C, minimum temperature 8.0°C).

Press the “OK” key to confirm the new temperature setting.

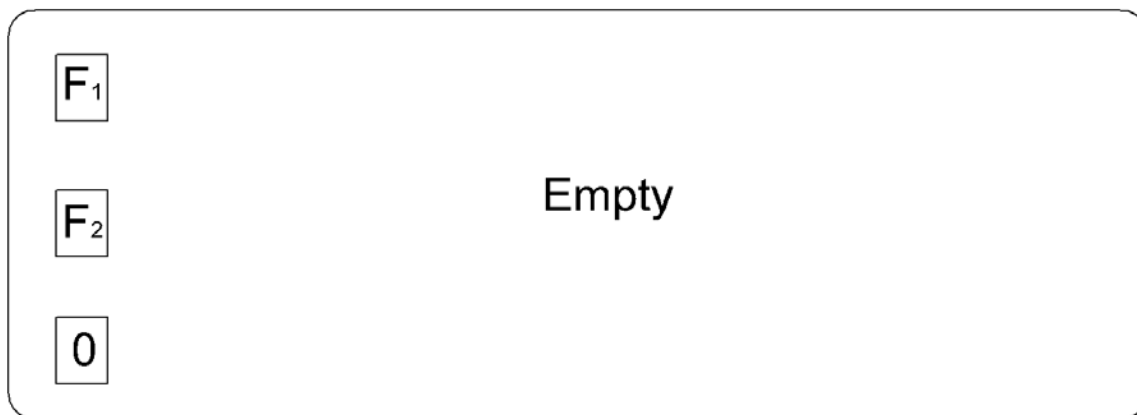
6 Alarms

6.1 On going error menu

In case of anomalies on the AISIN GHP outdoor unit or the YOSHI AWS, the red LED shown in the figure below will start to flash. The type of alarm triggered by the anomaly will be shown on the control panel display.



To see the list of alarms in progress, select in the screen 03/04 of the USER MODE MENU the function “on going error” and the following screen will open



If no alarms recorded, the display will read “Empty”.

Note: See page 37 for the list of possible recorded alarms.

6.2 Error log menu

This menu contains the last 50 alarms. Select the screen 03/04 of the user menu the function "Error log". The menu is formed by two screens

Screen 1/2

This shows the time, date and alarm code for the anomaly that has occurred if you have not cleared the alarm list, otherwise there will appear the written "Empty".

Select "next" or "previous" to view the following or previous alarm to the one shown on the screen.

F₁	ERROR LOG			01/02
F₂	Next			
	Time	Date	Alarm code	
0	Previous			

Screen 2/2

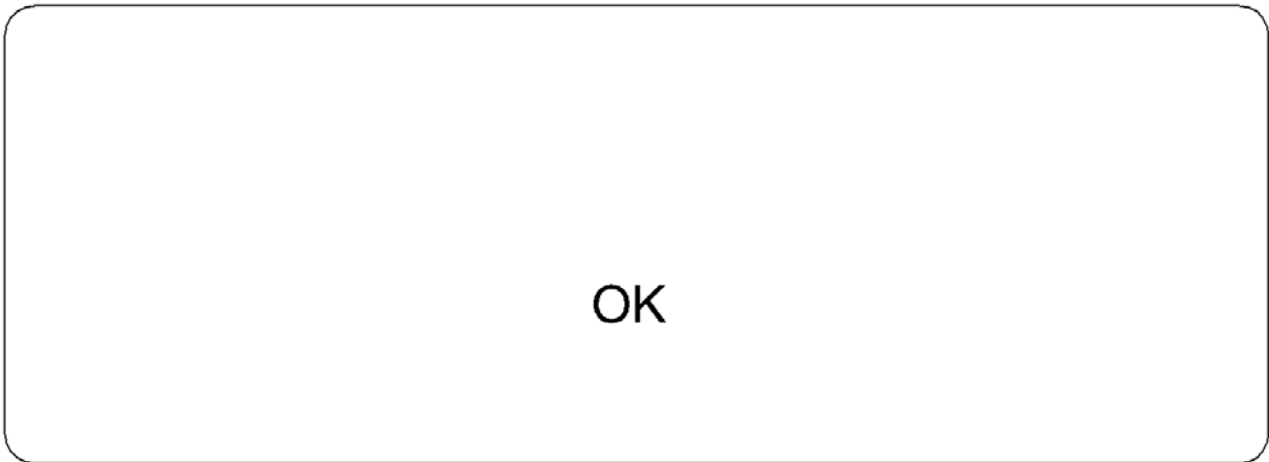
This section serves to request that the newest recorded alarm be displayed on screen 1/2 by selecting "Go to newest".

The Reset option serves to delete the last 50 recorded alarms.

F₁	ERROR LOG			02/02
F₂	Go to newest			
	Reset			
0				

6.3 Error reset menu

To delete the list of alarms in progress, select the “Reset” function on screen 02/02 of the “Error log” MENU and the screen shown below will appear.



The word “OK” means that the list of alarms in progress has been deleted.

6.4 List of Alarms

ALARM TYPE	ALARM CODE	POSSIBLE CAUSES	SOLUTIONS
Flow switch alarm	A1S1	<ul style="list-style-type: none"> • Y-filter clogged • Capacity insufficient 	<ul style="list-style-type: none"> • Clean the Y-filter • Check the pressure in the hydraulic circuit • Check the flow switch
Pressure difference switch alarm	A2S1	<ul style="list-style-type: none"> • Air in the system • Pump malfunction 	<ul style="list-style-type: none"> • Bleed the air • Replace the pump
GHP Alarm	A3S1		<ul style="list-style-type: none"> • Call the Service Centre
Flow switch tamper alarm	A4S1		<ul style="list-style-type: none"> • Call the Service Centre
Antifreeze alarm	A5S1		<ul style="list-style-type: none"> • Call the Service Centre
Return temperature probe alarm	A6S1		<ul style="list-style-type: none"> • Call the Service Centre
Antifreeze temperature probe alarm	A7S1		<ul style="list-style-type: none"> • Call the Service Centre
Expansion valve driver alarm	A8S1		<ul style="list-style-type: none"> • Call the Service Centre
Pump overload	A9S1		<ul style="list-style-type: none"> • Lift the " pump overload" switch Located on the Electric box

7 Service Centre

7.1 Service Centre.....

7.2 Telephone/Fax.....

7.3 Cell phone.....

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