

# *futura*

## **Electric Radiator**

**FAH1000-2    FAH1500-2**

**FAH2000-2**

**User Manua**

Please read and  
retain for future  
reference



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This product is only suitable for well insulated spaces.

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**Electric Radiator** FAH1000-2/ FAH1500-2/ FAH2000-2

Thank you for choosing our Futura electric radiator. Please be sure to read this users' manual carefully before using the unit. If you should encounter any problems, please contact a qualified service technician for help.

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**Parts List**

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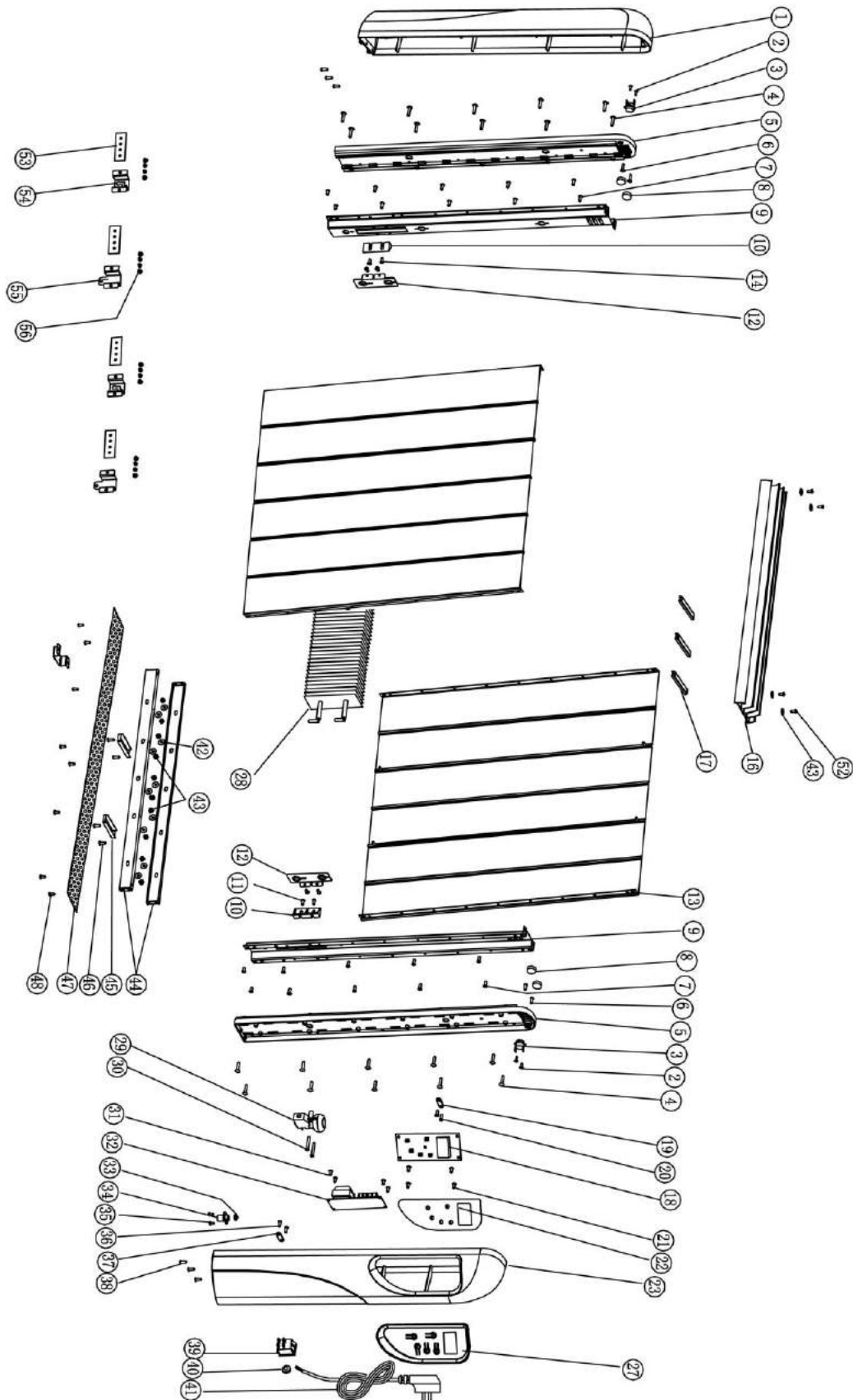
**PARTS LIST**

<b>No.</b>	<b>Description</b>	<b>No.</b>	<b>Description</b>
1	Left Plastic Panel	30	Screw
2	Screw	31	Screw
3	KSD Thermostat	32	Power Supply PCB
4	Screw	33	Sensor Fixed Part 1
5	Right Fixed Panel	34	Sensor Fixed Part 2
6	Screw	35	Screw
7	Screw	36	Screw
8	Connector Plug	37	Tension Disc
9	Support Frame	38	Screw
10	Plastic Support for heating element	39	Power Switch
11	Screw	40	Bushing
12	Heating Element Support	41	Power Cord
13	Front and Back Panel	42	Flat Gasket
16	Air Outlet	43	Nut, M4
17	Connector Top	44	Support Bar
18	Operation Panel	45	Connector
19	Tension Disc	46	Screw
20	Screw	47	Air inlet
21	Screw	48	Screw
22	Screen PCB	52	Screw
23	Right Control Panel	53	Wall Mount Bracket Gasket
27	Control Panel	54	Top Bracket
28	Heating Element	55	Bottom Bracket
29	Tip Over Switch	56	Screw

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**Electric Radiator FAH1000-2/ FAH1500-2/ FAH2000-2**

# Exploded Assembly Diagram



NOTICE: Actual product may vary from pictures shown.

## TECHNICAL INFORMATION

### Electric Radiator

**Model: FAH1000-2**

Rated Voltage: 230V ~ 50Hz

Rated Power: 1000W

Quantity of Fin: 4 fins

Machine Size (without feet): 495 x 590 x 80 mm (Length x Width x Height)

**Model: FAH1500-2**

Rated Voltage: 230V ~ 50Hz

Rated Power: 1500W

Quantity of Fin: 6 fins

Machine Size (without feet): 655 x 590 x 80 mm (Length x Width x Height)

**Model: FAH2000-2**

Rated Voltage: 230V ~ 50Hz

Rated Power: 2000W

Quantity of Fin: 8 fins

Machine Size (without feet): 815 x 590 x 80 mm (Length x Width x Height)



**Read this entire manual before using this product. Failure to do so could result in serious injury. Save this manual for future reference.**

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## SAFETY INSTRUCTIONS

**Read this owner's manual completely and make sure you understand all of its safety guidelines.**

**WARNING!** To avoid electric shock or damage due to the heat, always make sure the plug is pulled out before the heater is moved or cleaned.

When using an electrical appliance, basic safety precautions should always be observed, including the following:

1. The product is for household and commercial use only.
2. Connect the appliance to single-phase AC supply of the voltage specified on the rating plate.

3. In order to avoid overheating do not cover the heater.
4. Caution is necessary when any heater is used by or near Children, invalids or elderly person and whenever the heater is left operating and unattended.
5. The heater must not be located immediately below an electrical Socket-outlet.
6. Do not run cord under carpeting and do not cover cord with throw rugs, runners or the like. Arrange cord away from any foot traffic area and place where it will not be tripped over.
7. Do not operate the heater with a damaged cord or plug, or after the heater malfunctions, has been dropped, or damaged in any manner.
8. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified person in order to avoid a hazard.
9. Use the heater in a well-ventilated area. Do not insert or allow objects to enter any ventilation or exhaust opening. To prevent a possible fire, do not block air intakes or exhaust openings in any manner.
10. Do not use on soft surfaces, where openings may become blocked. Use the heater on flat, dry surfaces only.
11. Do not place this heater near flammable materials, surfaces or substances, as there may be a risk of fire. Keep the above flammable materials, surfaces or substances at least 1m from the front of the product and keep them away from the sides and rear.
12. Do not use the heater in any areas where petrol, paint or other flammable liquids are stored e.g. Garages or workshops as a hot, arcing or sparking parts inside the heater.
13. Don't use this heater in the immediate surroundings of a bath, a shower or a swimming pool (600mm clearance) with floor standing mode. Never locate the heater where it may fall into bath tub or other water container.
14. Never touch the heater with wet hands. The heater should be installed so that it cannot be touched by a person using a bath or shower. (600mm clearance)
15. This heater is hot when in use. To avoid burns and personal injury, do not let bare skin touch hot surfaces.
16. Before moving the heater, please unplug it and let it cool down for 15 minutes.
17. Please be aware that if other appliances are in use on the same electrical circuit as your product an overload can occur.
18. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
19. Children should be supervised to ensure that they do not play with the appliance.
20. The radiator is equipped with ceramic heating element.
21. STORE THIS INSTRUCTION MANUAL FOR FUTURE USE!

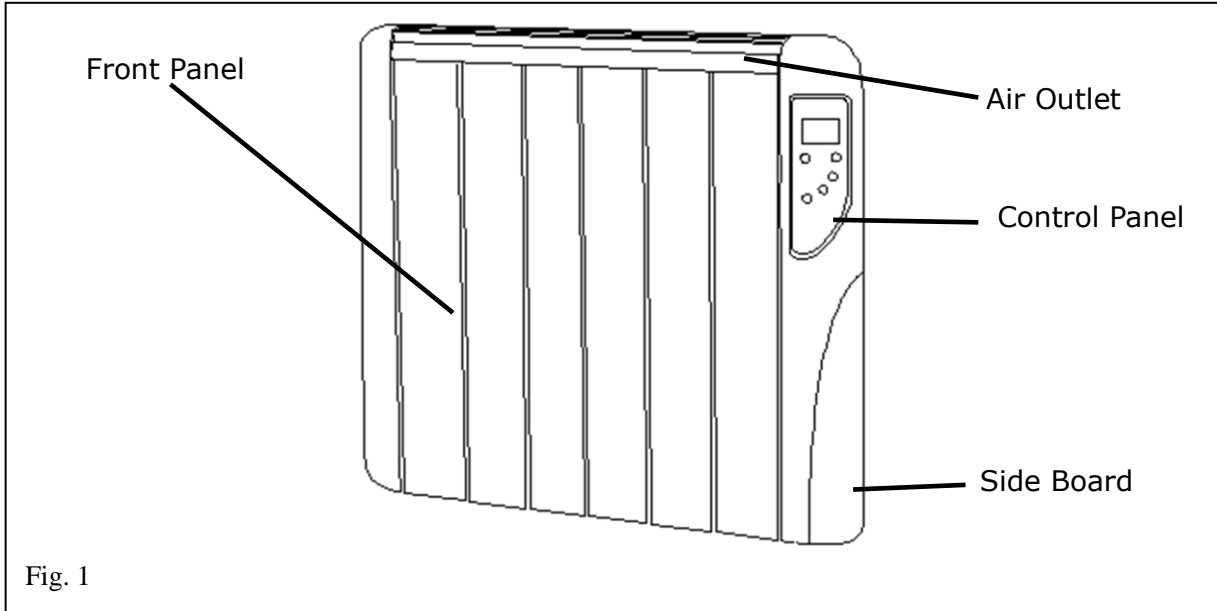
## **Unpacking**

Carefully remove the product and any accessories from the box. Make sure that all items listed in the packing list are included.

## **Packing List**

A) Electric Radiator

### USING YOUR HEATER



### OPERATION INSTRUCTION

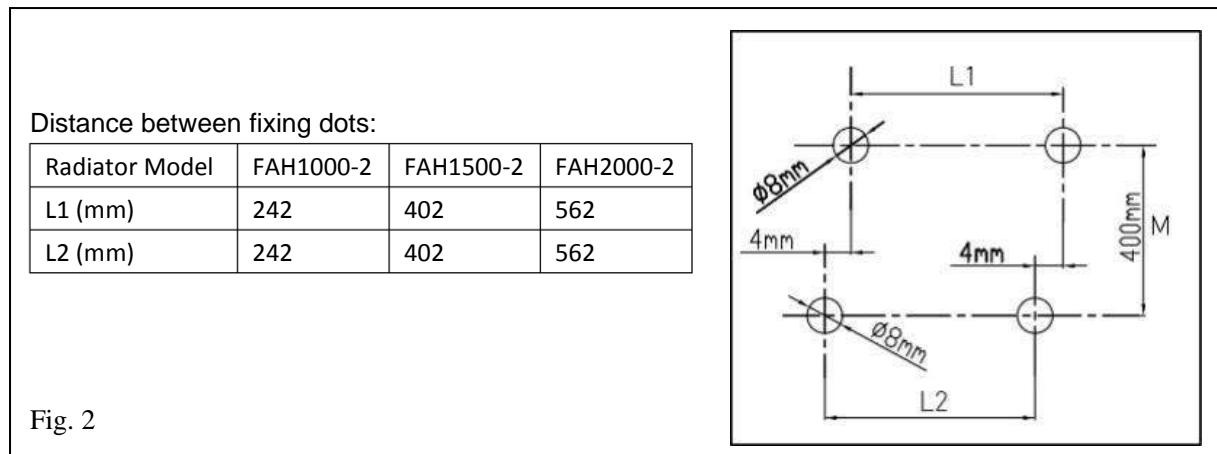
Please note: The screen has a backlight. It will stop illuminating 1 minute after you finish pressing any buttons. It will light up again if you press any button.

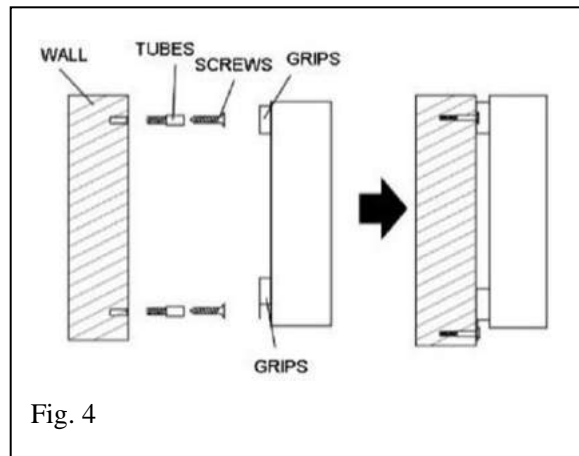
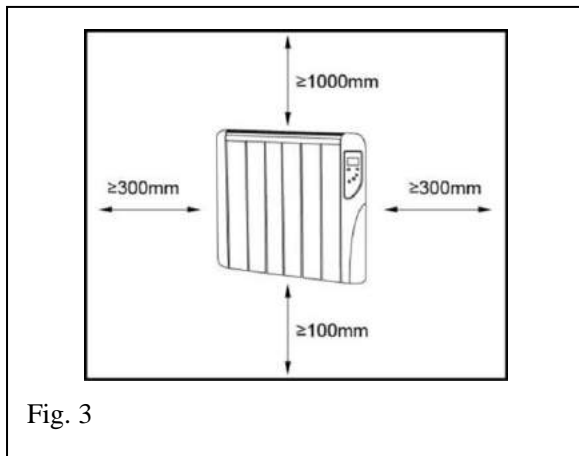
The unit has an auto button lock function. The buttons will be locked (🔒) after 1 minute if you don't press any buttons.

To open the lock: press  and  at same time.

### ASSEMBLY

#### For wall mounted





1. Drill holes according to the instructions of Fig. 2.
2. Place the plastic plug into the holes of the wall.
3. Set up grips with screws (Fig. 4).
4. Hang the radiator on the upper grips.
5. Place the down grips to maintain the appliance against the wall.
6. Screw down grips down with screws.


**CAUTION:** Before starting the appliance, make sure it's Wall-mounted correctly. If it's not parallel to the floor, technical problems can occur.

### Control panel and LCD screen

#### Control panel:


There are a total of 5 buttons on the control panel as follows:

 --- Power standby switch

 --- Date and time settings; Timer settings; Changes the working mode

 --- Select running mode; Set program;

 --- Increase

 --- Decrease

### Screen:

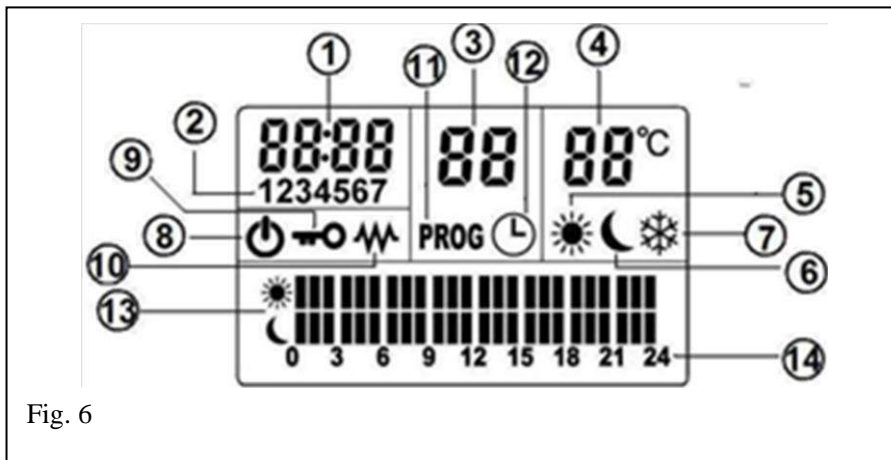


Fig. 6

- |                         |                     |
|-------------------------|---------------------|
| 1. Clock                | 8. Stand by         |
| 2. Date                 | 9. Buttons Lock     |
| 3. Program name/ number | 10. Heating symbol  |
| 4. Target temperature   | 11. Program setting |
| 5. Comfort              | 12. Timer           |
| 6. Economy              | 13. Day settings    |
| 7. Anti-frost           | 14. Hour of the day |

### Rationale

There are 3 running modes:

Free use/manual mode **Fr** , Daily program **P1 ~ P9** and weekly mode **AW**.

1. **Free use mode (Fr)**: Includes normal mode and timer mode (🕒) ;

2. **Daily mode (P1 ~ P9)**: There are a total of 9 daily programs.

Every program is combination of the 3 working modes:

Comfort is represented by (☀ AND | ),

Economy is represented by (🌙 AND | )

Anti-frost is represented by (❄ and empty).

Every day (24hours) is divided into 24 segments evenly. Each segment will be filled in with one block of either comfort, economy or anti frost temperature mode to combine and form a daily program.

All the settings for the daily program will be kept in the memory of the unit. If a daily program is selected, the unit will repeat this program every day.

3. **Weekly mode:**

Selecting one daily program (from the daily programs P1-P9) for every day in a week to combine and form a weekly program.

### Operation Instruction:

#### 1. Turning on

Plug in and switch on the unit. For the first time use, the screen will show as Fig.7.

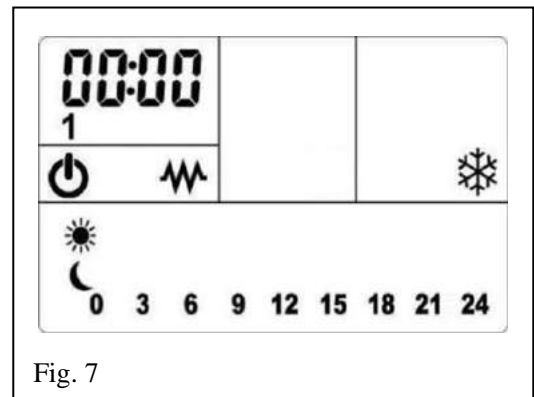




Fig. 7

Press , then the  symbol will disappear and unit will go into free normal mode (note: the heater will always go into free use normal mode from the stand-by mode).

#### 2. Operation

##### 2.1 Free program

For the first time use, the screen will be shown as Fig. 8.

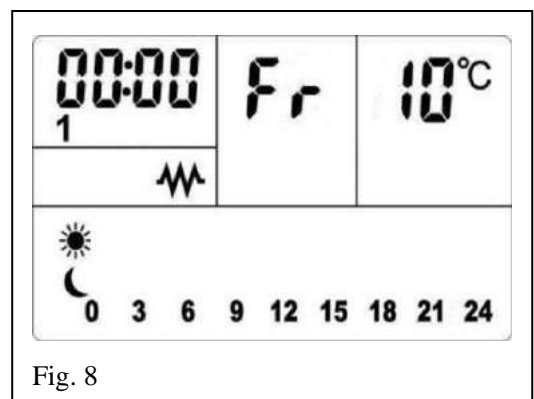










Fig. 8


##### 2.1.1 Time setting

Press , button and the hours will start to blink, then you can use  or  to select the required hour (0 ~ 24).

Press  again, and the minutes will start to blink.



Use  or  to select the minute (0 to 59);



Pressing  again, will make the date start to blink, then use  or  to select the date (1- Monday, 2- Tuesday, 3- Wednesday, 4- Thursday, 5- Friday, 6- Saturday, 7- Sunday);

Finally press  to confirm and finish the setting.

Or allow, the blinking will stop after 5 seconds and the setting will be finished automatically.

##### 2.1.2 Temperature setting

Press  or  to set the target temperature directly and at this point the temperature starts to blink.

Press  or  to set the target temperature.

Temperature adjustable range is from 10 °C ~ 35 °C.



If no buttons are pressed, the blinking will stop after 5 seconds and the setting will be finished automatically.

### 2.1.3 Timer setting (timer mode)

Hold  for 3 seconds until the  symbol is shown.

At the same time the clock will turn to 00:00 and start to blink.

This means the timer setting starts as Fig. 9.

Press  or  to set the timer length, every button press will change half an hour (30 minutes).

The maximum timer length is 24 hours.

When the timer is over, the unit will enter into standby mode



You can also set time and temperature the same as 2.1.1 and 2.1.2.

To quit from timer mode: hold the  button for 3 seconds until the  symbol has disappeared.


The unit will automatically return back to free normal mode afterward.

(Note: Once the machine exits free program (enter the day, week program, or standby), and then return to the free program, the unit always enters into the free normal mode first. The original timing model will be automatically cancelled).

### 2.2 Running mode selecting

Press the  button to get into program selecting (Program No. start to blink).



Press  or  to select running mode: *Fr*, *P 1-PR*, *AV*.



Then press  to confirm it. The unit will run following the new selection program.

Note: During this period, if no buttons are pressed, the selection is automatically completed 5 seconds later.

### 2.3 Day program

Day program has three kinds of working modes:

Comfort mode : (  and program content displayed as  ), Adjustable range from 10 °C ~ 35 °C;

Economic mode: (  and program content displayed as  ), Adjustable range of 10 °C ~ 35 °C;

The temperature should be no higher than comfort temperature;

Anti-frost mode: (  and program content displayed empty), 7 °C is fixed.

If a daily program was chosen for the work program, the unit will repeat the program every day.

Different program used for the first time as follows (Fig.10-18):

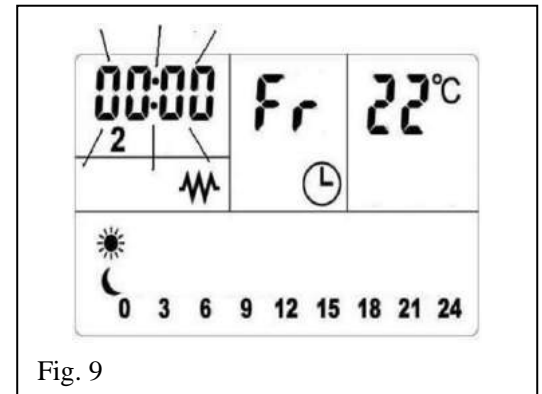


Fig. 9

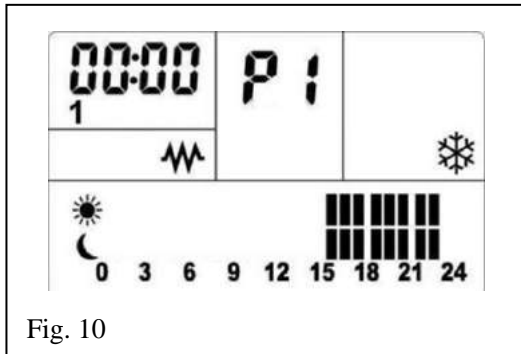


Fig. 10

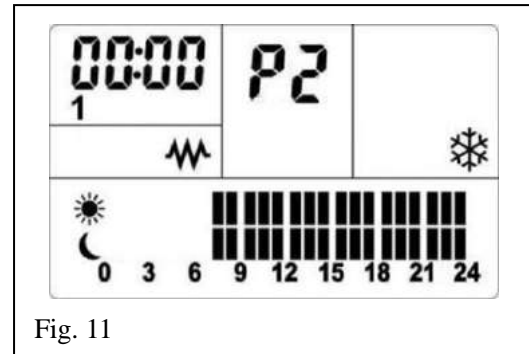


Fig. 11

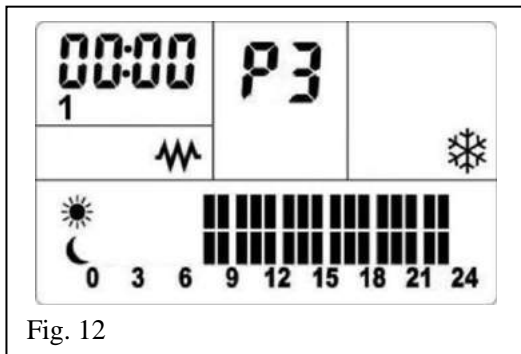


Fig. 12

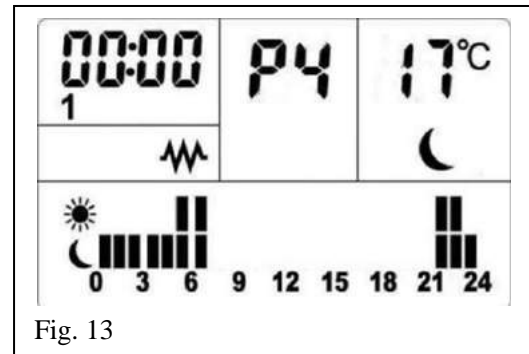


Fig. 13

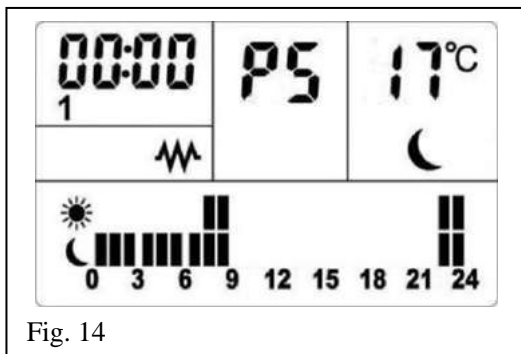


Fig. 14

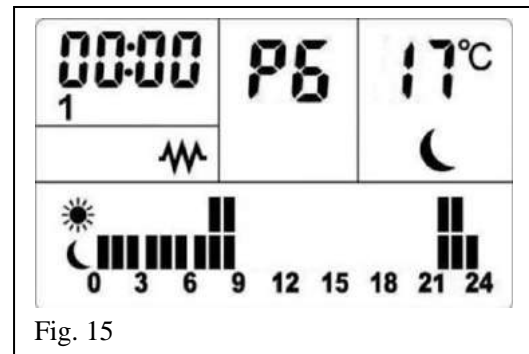


Fig. 15

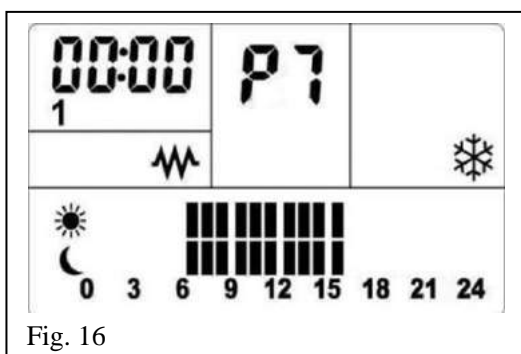


Fig. 16

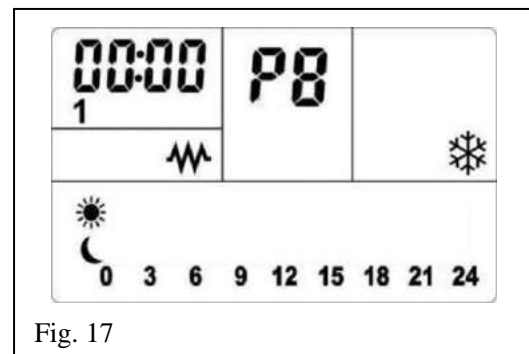


Fig. 17

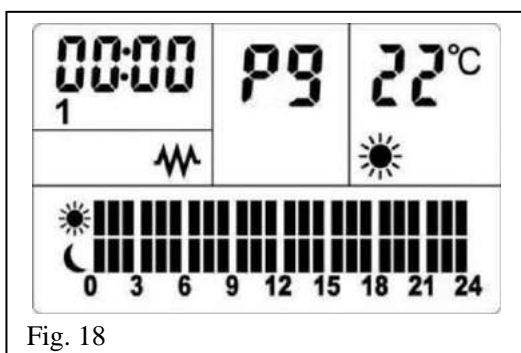




Fig. 18



### 2.3.1 Time setting



Same as 2.1.1, then the unit will automatically adjust to the current time and running accordingly.

### 2.3.2 Temperature setting

Hold the  button for 3 seconds until the  symbol blinks, at the same time the original comfort temperature will start to blink.

Press  or  buttons to set the target comfort temperature.

Press  to confirm, and the  symbol will start to blink, the original economy temperature also starts to blink.

Press the  or  buttons to set the target economy temperature.


Use  to confirm, the temperature setting is completed.

**The temperature will then be kept in the memory.**

### 2.3.3 Setting Daily program

#### Amending a pre-set program to your set times

Press the  button to choose the program from **P1 ~ P9** that you want to set.

Then hold the  button for 3 seconds to enter the program setting and at this time **PROG** will be displayed on the screen.

**PROG** Will be shown until the setting is completed, and the heating will stop during the setting.

The date does not show and the time is 00:00.

The mark  starts to blink rapidly.

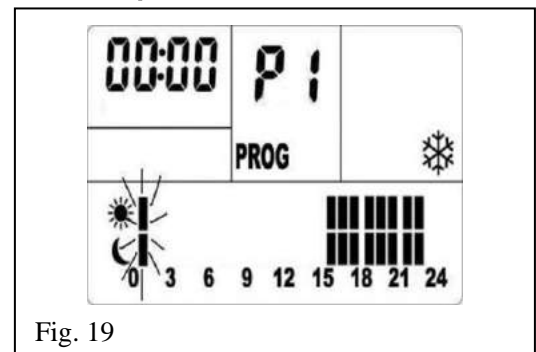




Fig. 19

First segment of selected program, such as Fig.19 (when the selected daily program is P1).

 starts the mode,   for comfort;  Economy;  empty for the anti-frost.

Then press  (forward), or  (back) to copy the mode into every segment.

Finally press  to confirm the program and exit program setting.

**PROG** Will disappear and the unit comes back to normal working mode.

The new program will be kept into the memory and replace the original program.

### 2.4 Weekly program

You may select week program according to 2.2.  
The first use will be as per Fig. 20.


#### 2.4.1 Time setting

Same as 2.1.1, then the unit will automatically adjust to the current time and run accordingly.

#### 2.4.2 Temperature setting

Same as 2.3.2.

#### 2.4.3 Setting weekly program

Hold  for 3 seconds to enter the weekly program setting, the time and working mode are no longer displayed, and **PROG** is shown.

**PROG** is displayed until the setting has finished, the unit stops heating during the setting.

The Monday marker will begin to blink, the program name of Monday will also blink (the corresponding program content also shows).

The screen shows as Fig. 21.

Press either  or  to select the daily program from P1~P9 for Monday (1).

Press  to confirm and automatically enter the Tuesday program (2).

**With same method you can select a daily program for every day in a week.**

Finally press  to complete the week program settings.

Then the **PROG** symbol will disappear and the unit will run according to new weekly program.


Note: Settings can be terminated at any time during setting. The new content will be retained.

### 3. OPEN WINDOW Function:

Your radiator is equipped with the open window function.

When you open windows, in the same area where the radiator is located, a sensor detects the sharp fall in temperature. The radiator switches off automatically and the symbol **FO**, Flickers on your screen.

The radiator is restarted automatically after 10 minutes.

However you can manually restart the radiator before the 10 minutes end by pressing on the button  of the radiator. The symbol "FO" disappears then of the screen.

#### 3.1 Starting open window function:

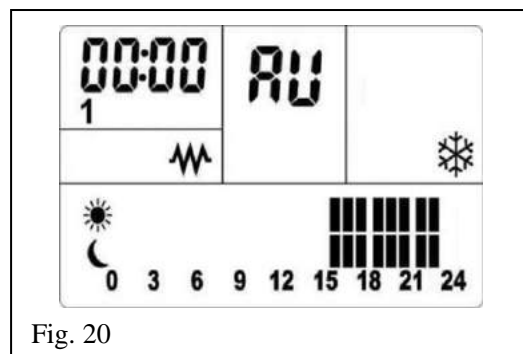


Fig. 20

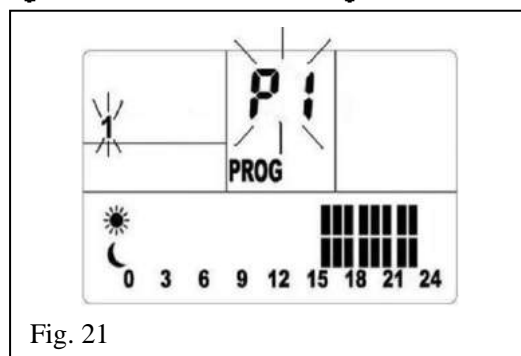




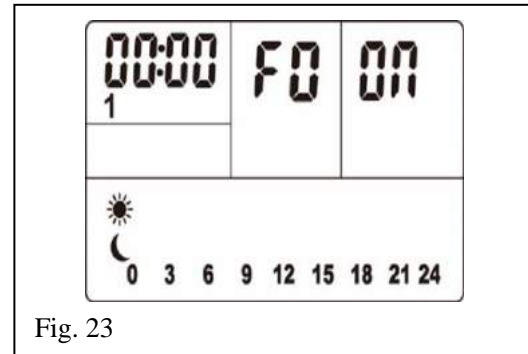
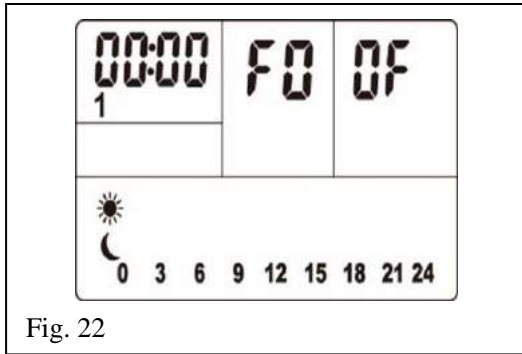




Fig. 21



1. Press  once. Using the keys  and , choose **FO Fr.P 1.P9.RV FO** among  
Then press  once to confirm your choice.
2. Once the heater is in the open window mode, See Fig. 22 screen appears.



OF meaning "function not in operation"

Using the keys  and , to change OF to ON, (ON meaning "function is in operation") See Fig. 23.

The open window function is then operational.

Press  once to validate your choice. Without pressing the touch button  during 5 seconds, the function is validated automatically.

### 4. Factory pre-set

The unit has a factory pre-setting as follows:

Date: 1 (Monday)

Clock: 00:00

Anti-frost: 7 °C

Free mode temperature: 10 °C

Comfort: 22 °C

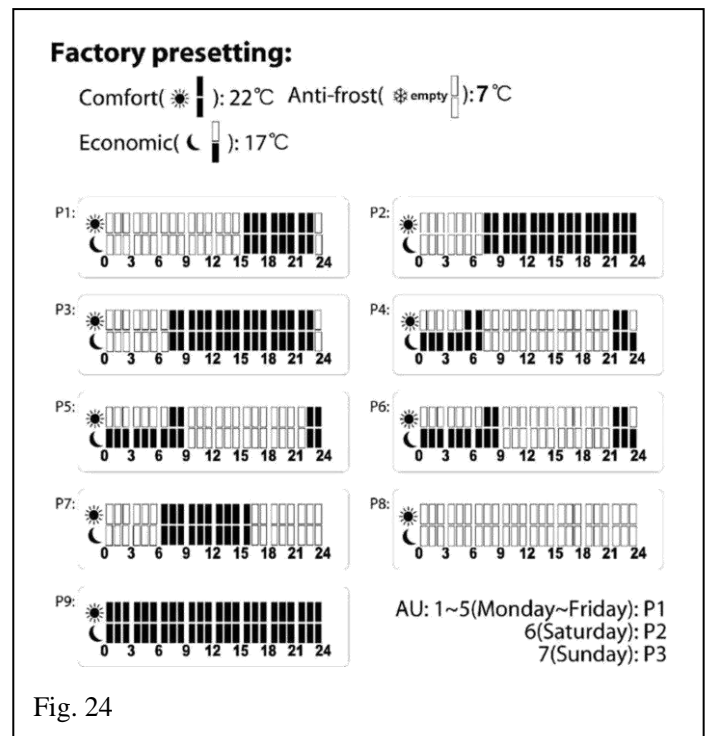
Economy: 17 °C


Weekly Program:

1 ~ 5 (Mon-Fri): P1





6 (Saturday): P2

7 (Sunday): P3



Note: When pressing  to power on, the unit will come back on to the factory pre-sets.

### 5. Other notes

1. The screen has a back light. It will turn off after 1 minute if you don't press any buttons. It will light up again if you press any button.
2. The unit has a button lock function. The buttons will be locked () after 1 minute if you don't press any buttons.  
To open lock: press  and  at same time.
3. Time will be reset to **00:00** if you unplug the unit, or if there is a power cut.
4. This heater includes an overheat protection system that shuts off the heater when parts are getting excessively hot.
5.  will only show when the unit is heating.
6. The unit will always go into free use mode from standby mode.
7. The unit will return to last running mode when powered off and on.

## MAINTENANCE

1. For cleaning, always unplug the heater and leave it to cool.  
Wipe the heater regularly with a damp cloth and dry the surface before turning on the heater again.
3. The heater must be cleaned at least once a month during the heating season.
4. Dust etc. should be removed with a soft cloth.
5. The heater can be stored in a dry and clean place.

**CAUTION! The heater should never be immersed in water.**

**Avoid using detergents to clean the heater.**

**Never let any water get inside the heater; this can be hazardous.**

### Disposal

Power tools, accessories and packaging should be sorted for environmentally-friendly recycling.

**Only for EC countries:**



Do not dispose of power tools into household waste!

According to the European Directive 2002/96/EC on waste electrical and electronic equipment and its incorporation into national right, products that are no longer suitable for use must be separately collected and sent for recovery in an environmentally-friendly manner.

## DECLARATION OF CONFORMITY

The declaration is to certify that it conforms to CE, EMC, LVD and RoHS directives:

EN55014-1: 2017

EN55014-2: 2015

EN61000-3-2: 2014

EN61000-3-3: 2013

All provisions of Annex 1 of Council Directive 2014/30/EU – EMC directive

EN60335-1: 2012 + A11: 2014 + A13: 2017

EN60335-2-30: 2009 + A11: 2012

EN62233: 2008

All provisions of Annex 1 of Council Directive 2014/35/EU – the Low Voltage Directive

RoHS 2011/65/EU



Mr. Paul Kaye, UK QA Manager

**Please read the following carefully**

FUTURA Direct Ltd. and/or its distributor have provided the parts list and assembly diagram as a reference tool only.

Neither FUTURA Direct Ltd. or its distributor makes any

representation or warranty of any kind to the buyer that he or she is qualified to do any repairs or replace any parts of this product. FUTURA Direct Ltd. and its distributor expressly state that all repairs or parts replacement should be done by certified or licensed technicians. The buyer assumes all risk and liability arising out of his or her repairs or parts replacement to the original product.

## 24 MONTHS LIMITED WARRANTY

If within 24 months from the date of purchase you experience any problems with your product, please return the product to its distributor/dealer for repair or replacement. This warranty DOES NOT COVER normal wear, or any damage as a result of accidents, misuse, abuse or negligence.

**Form 1: Information requirement for the electric local space heaters**

<b>Model identifier(s): NDFL791E-4R (FAH1000-2)</b>					
Item	Symbol	Value	Unit	Item	Unit
<b>Heat Output</b>				<b>Type of heat input, for electric storage local space heaters only (select one)</b>	
Nominal heat output	$P_{nom}$	1.00	kW	manual heat charge control, with integrated thermostat	No
Minimum heat output (indicative)	$P_{min}$	1.00	kW	manual heat charge control with room and/or outdoor temperature feedback	No
Maximum continuous heat output	$P_{max,c}$	1.00	kW	electronic heat charge control with room and/or outdoor temperature feedback	No
<b>Auxiliary electricity consumption</b>				fan assisted heat output	
At nominal heat output	$el_{max}$	N/A	kW	<b>Type of heat output/room temperature control (select one)</b>	
At minimum heat output	$el_{min}$	N/A	kW	single stage heat output and no room temperature control	No
In standby mode	$el_{sb}$	N/A	kW	Two or more manual stages, no room temperature control	No
				with mechanic thermostat room temperature control	No
				with electronic room temperature control	No
				electronic room temperature control plus day timer	No
				electronic room temperature control plus week timer	Yes
				<b>Other control options (multiple selections possible)</b>	
				room temperature control, with presence detection	No
				room temperature control, with open window detection	Yes
				with distance control option	No
				with adaptive start control	No
				with working time limitation	No
				with black bulb sensor	No
Contact details	Applicant Name: IMPORTED BY FUTURA DIRECT LTD. Address: DONCASTER,ENGLAND,DN6 7AY				

**Form 2: Information requirement for the electric local space heaters**

<b>Model identifier(s): NDFL791E-6R (FAH1500-2)</b>					
Item	Symbol	Value	Unit	Item	Unit
<b>Heat Output</b>				<b>Type of heat input, for electric storage local space heaters only (select one)</b>	
Nominal heat output	$P_{nom}$	1.50	kW	manual heat charge control, with integrated thermostat	No
Minimum heat output (indicative)	$P_{min}$	1.50	kW	manual heat charge control with room and/or outdoor temperature feedback	No
Maximum continuous heat output	$P_{max,c}$	1.50	kW	electronic heat charge control with room and/or outdoor temperature feedback	No
<b>Auxiliary electricity consumption</b>				fan assisted heat output	
At nominal heat output	$el_{max}$	N/A	kW	<b>Type of heat output/room temperature control (select one)</b>	
At minimum heat output	$el_{min}$	N/A	kW	single stage heat output and no room temperature control	No
In standby mode	$el_{sb}$	N/A	kW	Two or more manual stages, no room temperature control	No
				with mechanic thermostat room temperature control	No
				with electronic room temperature control	No
				electronic room temperature control plus day timer	No
				electronic room temperature control plus week timer	Yes
				<b>Other control options (multiple selections possible)</b>	
				room temperature control, with presence detection	No
				room temperature control, with open window detection	Yes
				with distance control option	No
				with adaptive start control	No
				with working time limitation	No
				with black bulb sensor	No
Contact details	Applicant Name: IMPORTED BY FUTURA DIRECT LTD. Address: DONCASTER,ENGLAND,DN6 7AY				

**Form 3: Information requirement for the electric local space heaters**

<b>Model identifier(s): NDFL791E-8R (FAH2000-2)</b>					
Item	Symbol	Value	Unit	Item	Unit
<b>Heat Output</b>				<b>Type of heat input, for electric storage local space heaters only (select one)</b>	
Nominal heat output	$P_{nom}$	2.00	kW	manual heat charge control, with integrated thermostat	No
Minimum heat output (indicative)	$P_{min}$	2.00	kW	manual heat charge control with room and/or outdoor temperature feedback	No
Maximum continuous heat output	$P_{max,c}$	2.00	kW	electronic heat charge control with room and/or outdoor temperature feedback	No
<b>Auxiliary electricity consumption</b>				fan assisted heat output	No
At nominal heat output	$el_{max}$	N/A	kW	<b>Type of heat output/room temperature control (select one)</b>	
At minimum heat output	$el_{min}$	N/A	kW	single stage heat output and no room temperature control	No
In standby mode	$el_{sb}$	N/A	kW	Two or more manual stages, no room temperature control	No
				with mechanic thermostat room temperature control	No
				with electronic room temperature control	No
				electronic room temperature control plus day timer	No
				electronic room temperature control plus week timer	Yes
				<b>Other control options (multiple selections possible)</b>	
				room temperature control, with presence detection	No
				room temperature control, with open window detection	Yes
				with distance control option	No
				with adaptive start control	No
				with working time limitation	No
				with black bulb sensor	No
Contact details	Applicant Name: IMPORTED BY FUTURA DIRECT LTD. Address: DONCASTER, ENGLAND, DN6 7AY				

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We FUTURA Direct Ltd, England DN6 7AY declare that the electric radiator is exclusively manufactured for FUTURA Direct Ltd and has been manufactured according to our fully quality assurance procedures.