AirMaster
Heating & Ventilation

Operation Manual

Models:
PH0.75TIM/LCDN
PH1TIM/LCDN
PH1.5TIM/LCDN
PH2TIM/LCDN

IMPORTANT SAFEGUARDS

Before use, please read and follow these instructions carefully, even if you feel you are familiar with the product. They contain important information concerning product operation, safety and maintenance. Please retain these instructions for future use and reference.

- When first installed you may experience a burning smell or a little smoke, this is normal and will fade within a few minutes.

- The surface temperature of this heater can be very hot, do not touch when the heater is turned on.

- Only connect the product if the voltage indicated on the product label(s) corresponds with the mains voltage.

- The heater must not be located immediately below a wall socket.

- Do not unplug the product by pulling on the cord. To disconnect, pull the plug, not the cord.

- This product has an overheat protection safeguard that turns off the heater. If it does overheat switch the heater off, remove the mains plug from wall socket and allow to cool for 45 minutes. The heater can then be switched on again. Carefully check prior to use that the reason for overheating was not curtains, clothing, furniture etc covering any of the heaters air vents.

- Turn off the appliance and disconnect when not in use. Allow to cool down prior to cleaning. Use a damp cloth for cleaning and finish with a dry cloth. Do not use cleaning chemicals.

- Do not use these products in areas where petrol, paint or flammable liquids are used or stored.

- If the power cord is damaged it must be replaced by a qualified electrician. Do not use the product until repaired.

- This appliance is not intended to be used by young children or disabled persons unless they are adequately supervised.

- To protect against fire, electrical shock and injury, do not immerse the appliance power cord or plug in water or any other liquids.

- This appliance is intended for indoor use only.

  To avoid overheating do not cover the heater with towels, curtains or clothing etc.

- Never use the heater to dry clothing or similar items. Do not handle the plug with wet hands.

- Ensure the heater is installed by a qualified tradesman / electrician.

- Ensure the appliance is level and securely fixed to the wall. The appliance should have a minimum air gap of 150mm on all sides

- For disposal this product must be taken to an authorized site for the recycling of electrical and electronic appliances. By collecting and recycling waste, you help save natural resources and ensure the product is disposed of in a safe and environmentally friendly way.

INSTALLATION GUIDE

1. When mounting the heater on to the wall
   ensure the heater is unplugged from the mains
   socket and all power switches are turned off.
   A suitable wall mounting area requires at least
   150mm of empty clearance on ALL four sides.

2. Detach the mounting bracket from the back of
   the panel heater by pushing down on the top
   bracket and then pulling the top brackets out.
   The bottom section will then slide down and
   out, releasing the mounting bracket.

3. Position the bracket on the wall in the desired
   location and mark the holes on the wall for
   drilling, making sure the bracket is level.
   Drill holes to a suitable depth and secure the
   mounting bracket to the wall with the four
   mounting screws supplied. For masonry walls
   use the wall plugs with screws provided.

4. Hang up the heater on the brackets and secure;
   Firstly locate the heater onto the lower bracket
   and push back to locate and click the upper
   brackets into position. Check heater is secure
   and plug heater into mains socket.
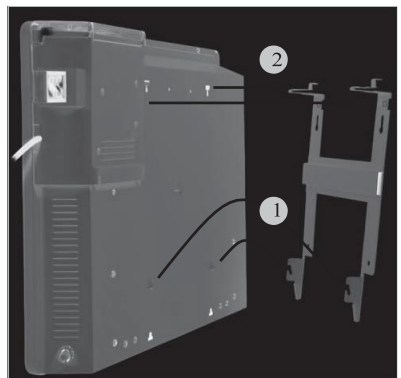
LCD CONTROLS
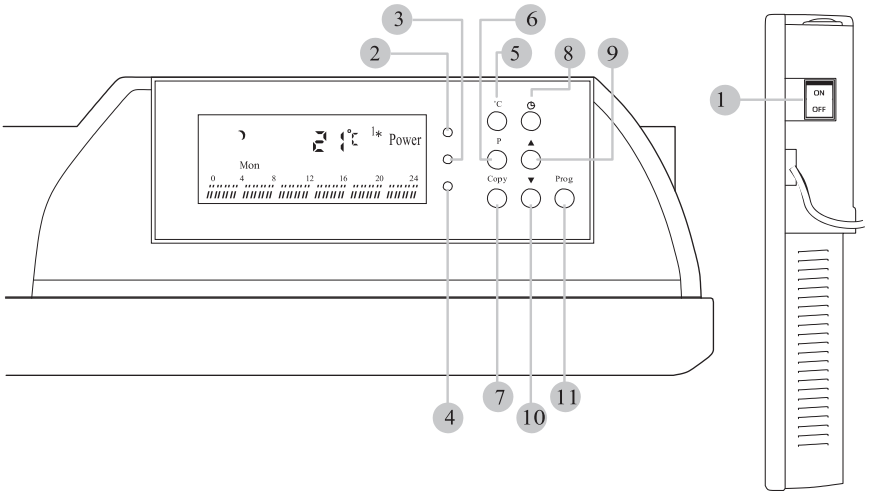
1 - Main power switch

2 - High heat mode indicator (red)

3 - Heating element ON indicator (yellow)

4 - Low heat mode indicator (green)

5 - Temperature selection

6 - Program selection

7 - Copy

8 - Timer selection

9 - Up button

10 - Down Button

11 - Programming Button

Lock

Comfort Symbol

Copy

Economy Symbol

Frost Symbol

Digital Display

Degrees °C

Power (W)

Programme — Prog Copy

Timer

Day

Digital ON/OFF Display
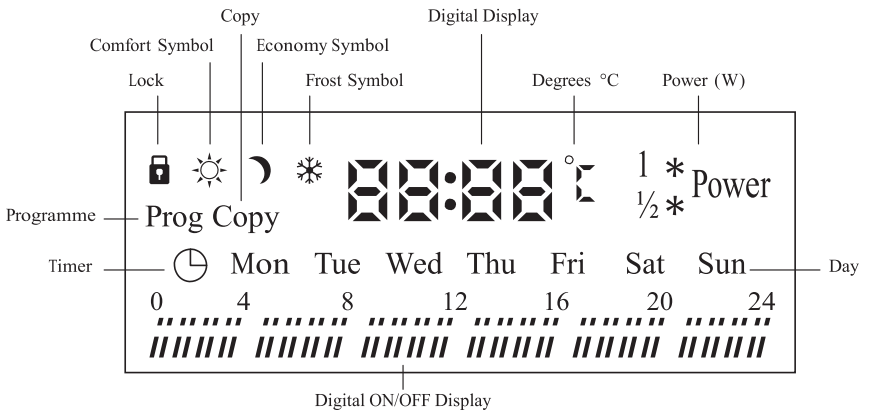
OPERATION

1 - The Function Module

The function module is equipped with an accurate thermal cut-out. It has a built in memory with 12 heating programs, of which 9 are factory pre-set and 3 are available for programming by the user. When making any changes to settings if a user pauses for more than 180 seconds the control module will quit the function being changed, without saving, and return to running the last selected heating program.

2 - Setting the Day and Time

When the panel heater is first installed, has been switched off or disconnected from the mains supply, the Day and Time will need to be set. To make changes to the LCD module settings the cover has to be removed by unscrewing the single locking screw.

1. Press the timer button (🕑)

2. The default "Day" setting will flash.

3. Use the Up (▲) and Down (▼) buttons to select the correct day.

4. Press the timer button (🕑)

5. The default "Hour" setting will flash.

6. Use the Up (▲) and Down (▼) buttons to select the correct hour.

7. Press the timer button (🕑)

8. The default "Minute" setting will flash.

9. Use the Up (▲) and Down (▼) buttons to select the correct minute.

10. Press the timer button (🕑)

11. The timer setting program will terminate and the selected day and time will be saved.

3 - Temperature Selection

The panel heater works with 2 temperature settings: A Low level setting and a high level setting. Each of these has default settings that can be changed as required. The minimum difference between the high and low heat settings is 4ºC.

To alter the default settings:

1. Remove the LCD panel cover

2. Press the temperature button (°C)

3. The current high level temperature setting will be displayed

4. Use the Up (▲) and Down (▼) buttons to select the required temperature. The high level temperature range is 9˚C to 30˚C.

5. Press the temperature button (°C)

6. The current low level temperature setting will be displayed

7. Use the Up (▲) and Down (▼) buttons to select the required temperature. The low level temperature range is 5˚C to 26˚C.

8. Press the temperature button (°C)

9. The temperature setting program will terminate and the selected high and low temperatures will be saved.

4 - Description of Programs

There are 12 programs which switch the heating between Low Level and High Level at various times of the day and night. 9 of these are pre-set and cannot be altered. The "**UP**", "**52**" and "**7**" programs can be defined by the user. The table below shows the Low/High heat setting running times for each of the programs.

Program	Level	Temperature	Monday - Friday	Saturday/Sunday
P1	Low	5ºC	00:00 to 06:30 08:30 to 17:00 22:30 to 00:00	00:00 to 07:30 10:00 to 12:00 14:00 to 17:00 22:30 to 00:00
	High	18ºC	06:30 to 08:30 17:00 to 22:30	07:30 to 10:00 12:00 to 14:00 17:00 to 22:30
P2	Low	5ºC	00:00 to 06:30 08:30 to 17:00 22:30 to 00:00	00:00 to 07:30 10:00 to 12:00 14:00 to 17:00 22:30 to 00:00
	High	20ºC	06:30 to 08:30 17:00 to 22:30	07:30 to 10:00 12:00 to 14:00 17:00 to 22:30
P3	Low	5ºC	00:00 to 06:30 08:30 to 17:00 22:30 to 00:00	00:00 to 07:30 10:00 to 12:00 14:00 to 17:00 22:30 to 00:00
	High	22ºC	06:30 to 08:30 17:00 to 22:30	07:30 to 10:00 12:00 to 14:00 17:00 to 22:30
P4	Low	5ºC	00:00 to 06:30 08:30 to 17:00 22:30 to 00:00	00:00 to 07:30 10:00 to 12:00 14:00 to 17:00 22:30 to 00:00
	High	24ºC	06:30 to 08:30 17:00 to 22:30	07:30 to 10:00 12:00 to 14:00 17:00 to 22:30
P5	Low	5ºC	00:00 to 06:30 08:30 to 17:00 22:30 to 00:00	00:00 to 07:30 10:00 to 12:00 14:00 to 17:00 22:30 to 00:00
	High	26ºC	06:30 to 08:30 17:00 to 22:30	07:30 to 10:00 12:00 to 14:00 17:00 to 22:30
P6	Low	5ºC	00:00 to 06:30 08:30 to 17:00 22:30 to 00:00	00:00 to 07:30 10:00 to 12:00 14:00 to 17:00 22:30 to 00:00
	High	28ºC	06:30 to 08:30 17:00 to 22:30	07:30 to 10:00 12:00 to 14:00 17:00 to 22:30
CF	Frost protection program – Runs at +5ºC All Day			
CE	Economy program – Runs at the low level heat setting all day			
CC	Constant heating program – Runs at the high level heat setting all day			
UP	User program – Runs at times defined by the user			
52	User program – Runs at times defined by the user			
7	User program – Runs at times defined by the user			

4.2 - Selecting a Program

To select a program to run:

1. Remove the LCD panel cover

2. Press the program select button $\boxed{P}$

3. The current selected program will be displayed

4. Use the Up ▲ and Down ▼ buttons to select the required program

5. Press the program select button $\boxed{P}$

6. The program select option will terminate and the selected program will be saved and used to control the panel heater

4.3 - Changing the Settings for the User Program "UP"

The "**UP**" program allows the heater to be programmed to switch from low to high heat output settings at required times and each day of the week can have different settings.

To program the heating settings for the "**UP**" program:

1. Remove the LCD panel cover.

2. Press the program select button $\boxed{P}$

3. The current selected program will be displayed

4. Use the Up ▲ and Down ▼ buttons to select the "**UP**" program.

5. Press the **Prog** button.

6. Monday's 24 hour programming screen will be displayed.

7. The 24 hour program is divided into half hour time slots. Each time slot has to have a setting selected for all 7 days of the week. There are 2 options for each half hour slot. These can be set to either high heat level using the Up button ▲ or low heat level using the Down button ▼

8. When all the 24 hour time slots have been set the timer display will show "00:00".

9. Press timer button 🕘 and the next 24 hour period will be displayed.

10. Repeat steps 7 to 9 until all seven days have been programmed with the required heating settings.

11. Press the **Prog** button and the settings you have made will be saved. The "**UP**" program will be run with the new settings displayed.

When programming the settings for the "**UP**" program a 24 hour period's settings can be copied from one day to the next, to save having to program each day individually.

1. Repeat the steps 1 to 8 as detailed above to program a 24 hour period. If the next 24 hour period is to have the same settings:

2. Press the **Copy** button.

3. Press timer button 🕘

4. Press the **Copy** button.

5. The first days settings are now copied into the next day.

6. Repeat steps 2 to 4 for all subsequent days that are to have the same settings.

4.3 - Changing the Settings for the 5/2 Day Program "52"

The "**52**" program allows the heater to be programmed to switch from low to high heat output settings at the required times on Monday to Friday and then at different times on Saturday and Sunday.

1. Remove the LCD panel cover.

2. Press the program select button (P)

3. The current selected program will be displayed

4. Use the Up (▲) and Down (▼) buttons to select the "**52**" program.

5. Press the **Prog** button.

6. The 24 hour programming screen will be displayed. This allows the heat settings required for Monday to Friday to be set.

7. The 24 hour program is divided into half hour time slots and each has to be programmed. There are 2 options for each half hour slot. These can be set to either high heat level using the Up button (▲) or low heat level using the Down button (▼)

8. When all the 24 hour time slots have been programmed the timer display will show "00:00".

9. Press timer button (🕐) and the 24 hour programming screen will be displayed. This allows the heat settings required for Saturday and Sunday to be set.

10. Set each half hour time slot to either high heat level using the Up button (▲) or low heat level using the Down button (▼)

11. When all the 24 hour time slots have been programmed the timer display will show "00:00".

12. Press the **Prog** button and the settings you have made will be saved. The "**52**" program will be run with the new settings displayed.

4.3 - Changing the Settings for the 7 Day Program "7"

The "**7**" program allows the heater to be programmed to switch from low to high heat output settings at the required times on each day of the week.

1. Remove the LCD panel cover.

2. Press the program select button (P)

3. The current selected program will be displayed

4. Use the Up (▲) and Down (▼) buttons to select the "**7**" program.

5. Press the **Prog** button.

6. The 24 hour programming screen will be displayed. This allows the heat settings required for Monday to Sunday to be set.

7. The 24 hour program is divided into half hour time slots and each has to be programmed. There are 2 options for each half hour slot. These can be set to either high heat level using the Up button (▲) or low heat level using the Down button (▼)

8. When all the 24 hour time slots have been programmed the timer display will show "00:00".

9. Press the **Prog** button 11 and the settings you have made will be saved. The "**7**" program will be run with the new settings displayed.

4.4 - Open Window Function

Press Copy and ▼ button at the same time for 3 seconds, open window function will be active, ⌞ ⌟ will flash on the display. Heater will transfer to work under Frost Protection program at +5℃ if temperature decreases 4℃ within 30minutes. And it will recoverworking under previous working program automatically if temperature recovers 2℃, or by pressing Copy and ▼ button at the same time for 3 seconds.

5 - Locking the Control Panel

5.1 - Electronic Locking

Press and hold the Up ▲ and Down ▼ buttons at the same time until the padlock 🔒 symbol appears on the display. All the control functions will now be locked and buttons will no longer operate. Pressing the Up and Down buttons at the same time again will restore all control panel functions.

5.2 - Mechanical Locking

The plastic LCD display cover can be removed or secured in place using the screw at the top right corner of the cover. Take care not to over-tighten this screw

6 - Error code

If the LCD screen displays the following error codes "E1" or "E2" and the heater has stopped working, it may be caused by a short circuit or loose connection of the temperature sensor wire on the PCB board. Any inspection requiring the opening of the control panel must be made by a qualified electrician.

LOT20 Compliant

Item	Symbol	Value	Unit
HEAT OUTPUT - PH0.75TIM/LCDN			
Nominal Heat Output	P_{nom}	0.75	kW
Minimum Heat Output (Indicative)	P_{min}	0.35	kW
Maximum Continuous Heat Output	$P_{max,c}$	0.74	kW
HEAT OUTPUT - PH1TIM/LCDN			
Nominal Heat Output	P_{nom}	1.00	kW
Minimum Heat Output (Indicative)	P_{min}	0.50	kW
Maximum Continuous Heat Output	$P_{max,c}$	0.90	kW
HEAT OUTPUT - PH1.5TIM/LCDN			
Nominal Heat Output	P_{nom}	1.5	kW
Minimum Heat Output (Indicative)	P_{min}	0.75	kW
Maximum Continuous Heat Output	$P_{max,c}$	1.40	kW
HEAT OUTPUT - PH2TIM/LCDN			
Nominal Heat Output	P_{nom}	2.00	kW
Minimum Heat Output (Indicative)	P_{min}	1.00	kW
Maximum Continuous Heat Output	$P_{max,c}$	1.90	kW
AUXILIARY ELECTRICITY CONSUMPTION			
At Nominal Heat Output	el_{max}	N/A	kW
At Minimum Heat Output	el_{min}	N/A	kW
In Standby Mode	el_{SB}	0.00	kW

Item	Unit
Type of heat input, for electric storage local space heaters only (Select one)	
Manual Heat Charge Control, with Integrated Thermostat	[No]
Manual Heat Charge Control with Room and/or Outdoor Temperature Feedback	[No]
Electronic Heat Charge Control with Room and/or Outdoor Temperature Feedback	[No]
Fan Assisted Heat Output	[No]
Type of heat output/room temperature control (Select one)	
Single Stage Heat Output and No Room Temperature Control	[No]
Two or More Manual Stages, No Room Temperature Control	[No]
With Mechanical 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]
Other control option (Multiple selections possible)	
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]