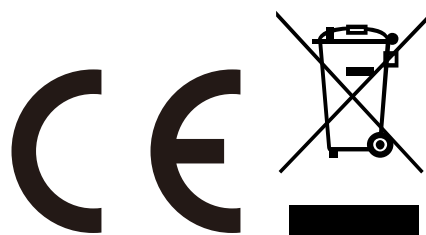




IN230400174V04\_UK

**820-352V70\_820-352V71**



EN\_This product is only suitable for well insulated spaces or occasional use.

**EN\_IMPORTANT, RETAIN FOR FUTURE REFERENCE: READ CAREFULLY.**

## IMPORTANT SAFEGUARDS

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

### READ ALL INSTRUCTIONS BEFORE USING

**WARNING:** To reduce the risk of fire, electrical shock, or injury to person:

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Children of less than 3 years should be kept away unless continuously supervised.
- Children aged from 3 years and less than 8 years shall only switch on/off the appliance provided that it has been placed or installed in its intended normal operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.
- **CAUTION** - Some parts of this product can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- **CAUTION:** In order to avoid a hazard due to inadvertent resetting of the thermal cutout, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.



- **WARNING:** In order to avoid overheating, do not cover the heater.
- The heater must not be located immediately below a socket-outlet.
- Do not use this heater in the immediate surroundings of a bath, a shower or a swimming pool.
- Do not use this heater if it has been dropped;
- Do not use if there are visible signs of damage to the heater;
- Use this heater on a horizontal and stable surface, or fix it to the wall, as applicable.
- **WARNING:** Do not use this heater in small rooms when they are occupied by persons not capable of leaving the room on their own, unless constant supervision is provided.
- **WARNING:** To reduce the risk of fire, keep textiles, curtains, or any other flammable material a minimum distance of 1 m from the air outlet.
- The product is for household use only.
- To use this appliance, connect it to a single-phase AC supply with the voltage indicated on the rating plate.
- When not in use, turn off and unplug the appliance.

- When using a heater near children, persons with disabilities or elderly persons, or when leaving the heater operating and unattended, it is crucial to exercise extreme caution.
- Never run the cord under carpeting or cover it with throw rugs, runners or anything similar. Keep the cord away from congested areas, so it cannot be tripped over.
- Do not use the heater if the cord or plug is damaged, or if the heater has been dropped or damaged. If the heater malfunctions, do not use it until it has been properly repaired.
- Avoid using extension cords – this could overheat the appliance and create a fire risk.
- Use the heater in well-ventilated areas. Do not insert or allow objects to enter any ventilation or exhaust opening. To prevent the risk of fire, do not block any air intakes or exhaust openings. Do not use it on soft surfaces, such as beds and sofas, where openings could get blocked. Only use the heater on flat, dry surfaces.
- To prevent the risk of fire, flammable materials, surfaces and substances must be kept at least 1m away from the front, sides and rear of this appliance. 13. There are hot, arcing and sparking parts inside this heater, so it must not be used in areas where petrol, paint or other flammable liquids are stored, such as garages and workshops.
- Never place it in a position, where it could fall into a bathtub or other water containers.
- Do not touch the heater with wet hands – this is an electrical hazard.
- This heater is hot when in use. To avoid burns and personal injury, do not let bare skin touch hot surfaces.
- Before moving the heater, unplug it and let it cool down for 15 minutes. If provided, use handles when moving this appliance.
- Do not use other electrical appliances with the same electrical circuit as the heater – this could cause an overload.

**FOR HOUSEHOLD USE ONLY SAVE THESE INSTRUCTIONS**

## **WARINING**

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2** hours.
- **KEEP** new and used batteries **OUT OF REACH OF CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



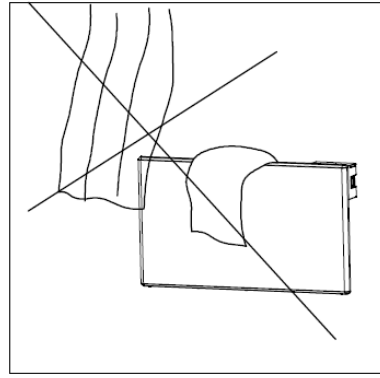
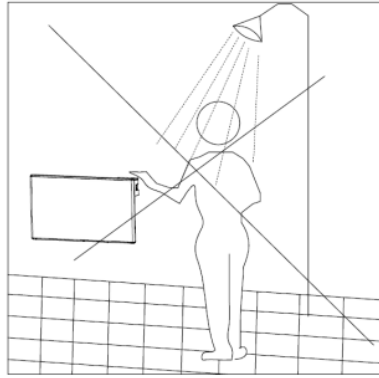
### **Battery**

- 1) Battery type: CR2025
- 2) Nominal Voltage: 3V

### **Instructions and manuals**

- a) Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- b) Even used batteries may cause severe injury or death.
- c) Call a local poison control center for treatment information.
- d) Non-rechargeable batteries are not to be recharged.
- e) Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- f) Ensure the batteries are installed correctly according to polarity (+ and -).
- g) Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- h) Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- l) Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

**KEEP THIS INSTRUCTION MANUAL FOR FUTURE USE!  
NEVER TOUCH YOUR PANEL HEATER OR ITS CASING WITH WET HANDS!**

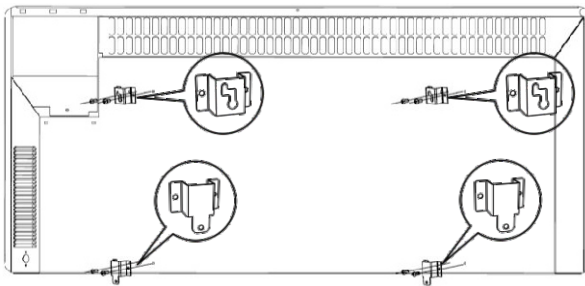


**SPECIFICATIONS**

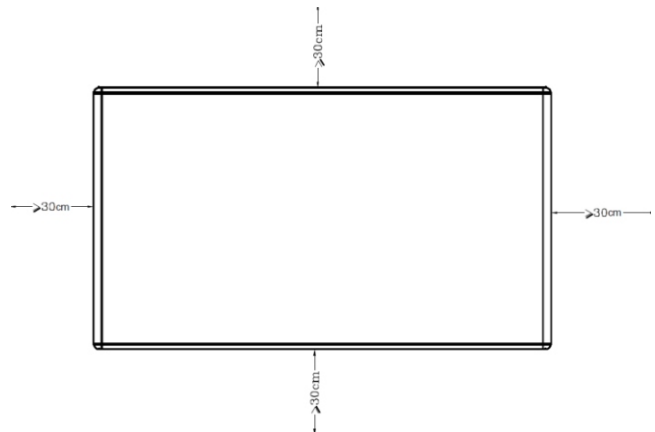
Model	Thermostat	Voltage	Power	IP rating
820-352V70	Electronic	~230 V/50 Hz	1200W	Ipx4
820-352V71	Electronic	~230 V/50 Hz	2000W	Ipx4

**Assembly**

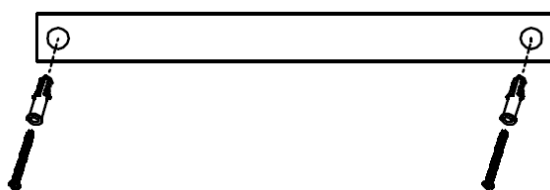
**For wall mounting**



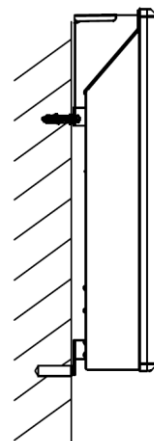
(1)



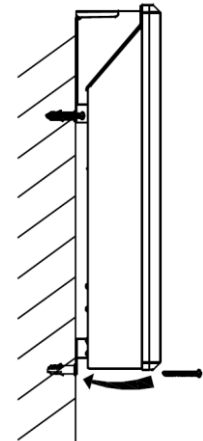
(2)



(3)



(4)



(5)

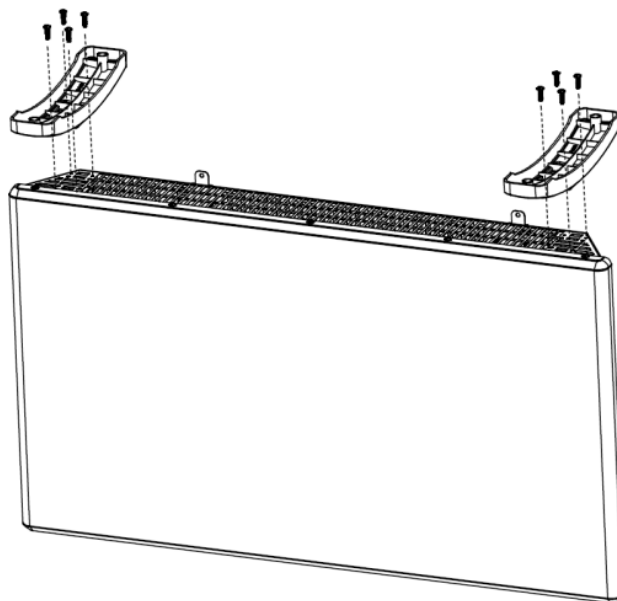
## Parts list

NO.	Description	Quantity	Note	NO.	Description	Quantity	Note
1	Screw(ST4*10)	8	Used for Wall mounted	5	Screw(ST4*14)	8	Used for stand
2	Drill dimension paper	1	Used for Wall mounted	6	foot	2	Used for stand
3	Plastic expansion tube	4	Used for Wall mounted	7	Instruction manual	1	/
4	Expansion screw(ST4*40)	4	Used for Wall mounted	8	Remote controller	1	/

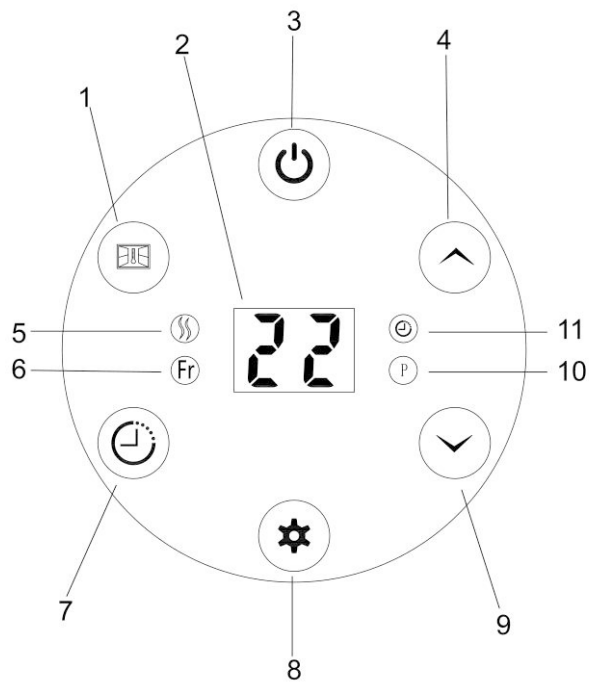
1. As shown in picture (1), fasten four hook racks with eight screws (ST4\*10).
2. As shown in picture (2), ensure there is at least 30cm of space between the heater and other objects, such as floors and walls.
3. As shown in picture (3), use drill dimension paper to drill two top holes ( $\Phi 8$ ) on the wall, then put the plastic expansion tube into the holes and fasten the screws (ST4\*40) in the holes.
4. As shown in picture (4), hang the top two racks onto the expansion screws (ST4\*40). Mark the two bottom hook racks' position on the wall and take away the heater. Drill two bottom holes ( $\Phi 8$ ) on the wall, then place the plastic expansion tube into the holes.
5. As shown in picture (5), hang the heater on the wall and put the expansion screws (ST4\*40) into the bottom two holes.

**For Stand**

1. Place the foot at the bottom of the body and make sure it fits properly.
2. Use eight screws (ST4\*10) to fasten both feet securely in place.









## Operating instructions



Control panel



Remote controller



1.  : Open window function button
2. Display: shows the desired room temperature by default
3.  : Power button
4.  : Control button (+): increases temperature or timer
5. Heating indicator light
6. Free mode indicator light
7.  : Timer function button
8.  : Mode setting button
9.  : Control button (-): reduces temperature or timer
10. Weekly programme indicator light
11. Timer indicator light

**WARNING: Before the heater is turned on, it must be attached to a wall or stand. If the heater is not installed correctly or is installed askew, this may cause the heater to malfunction or in the worst case, be damaged.**



If the temperature sensor is not functioning properly, you will see the symbol below on the display. Please contact the manufacturer.

### 1. Turn on:

Plug in the heater. After “BI” voice, the heater enter into standby mode and show  icon on display. Press  button to turn on the heater, and display show the desired temperature.

#### Factory default state:

Free mode: temperature setting is 22°C.

Day: Monday (1). Time: 12:00 AM (00:00).

Open window function: Off.

Timer: Off.



### 2. Week and time setting

Before using this appliance, you must set the week and time. Follow the below steps to do this:



Hold  for three seconds. The display will show  and flash.

Press  or . The display will show  (Monday) and flash.

Press  or  to select between 1-7 (Monday-Sunday).

Press  to confirm day setting and enter time setting. The display will show  and flash.

Press  or  button to set the hour.

Press  to confirm hour setting and enter minute setting. The display will show  and flash.

Press  or  button to set the minute.

Press  to confirm all settings.

**Note: If the power supply is cut off, the week and time will reset to the factory default settings. The other settings will remain the same as before the power supply was cut off. To ensure that your heater runs correctly, reset the week and time after a power cut.**

### 3. Heating mode

The heater has four modes: 1. Free mode (Fr)

2. Weekly programme (P1)

3. Weekly programme (P2)

4. Anti-frost mode (AF)

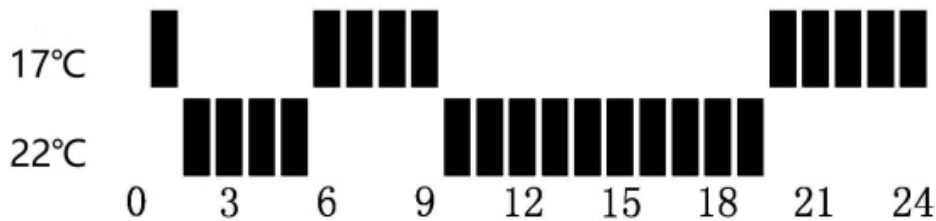
Press  to cycle through the modes in this order: Fr→P1→P2→AF→Fr

**Free mode:** Temperature can be set between 5-35°C by pressing  or .

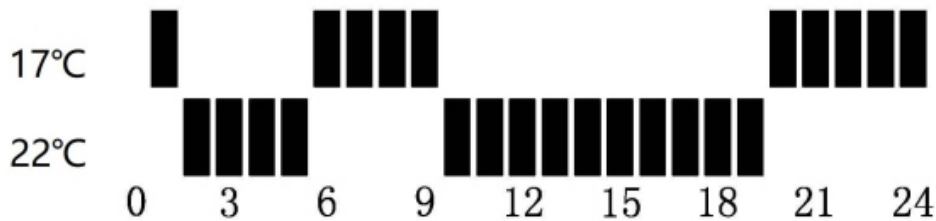
#### Weekly programme:

Note that if week and time settings are not finished, the first time you enter P1/P2 mode, you will be requested to set the week and time first.



**P1:** The programme cannot be modified. If you enter P1, every day will run the default setting as shown below.







**P2:** The programme can be modified. Default setting as below.








### Setting:

Once you have entered P2 mode, press and hold  for three seconds. The display will show .

Press  to choose between d1-d7 (Monday-Sunday).

To confirm the day setting, press . The display will show  (°C) and flash. Press  or  to set the temperature between 5-35°C.

To confirm your temperature setting, press  again. The display will show  and flash. Press  or  to set the running hours (0-24, meaning 00:00-24:00). Press  again to set the temperature and hour until you reach 24:00.

To set the day, press the button corresponding to the day (e.g. Tuesday is represented by d2). Repeat this process until you have set all seven days.

### For better understanding, please see the below examples:

Tuesday







00:00-07:00: desired temperature is 20°C

07:00-17:00: desired temperature is 10°C





17:00-24:00: desired temperature is 25°C

### Setting as below:






#### When in P2 mode follow these steps:

- Press and hold  for three seconds.
- Press  and select 2.
- Press .
- Press  and select 20.
- Press .
- Press  and select 7 (00:00-07:00 at 20°C).

To continue setting up for the next period, follow these steps:

- Press  again.
- Press  and select 10.
- Press .
- Press  and select 17 (07:00-17:00 at 10°C).


For setting up the final period, follow these steps:

- Press  again.
- Press  and select 25.
- Press .
- Press  and select 24 (17:00-24:00 at 25°C).
- The setting for d2 (Tuesday) is finished.
- Press  to set d3 (Wednesday).

#### Anti-frost mode:

Keep the temperature at 7°C. Please note, whichever mode the appliance is in, if the room temperature is lower than 7°C, the anti-frost mode will automatically begin.





#### 4. Timer

Press  to set a timer between 0-24 hours.

During any mode, when the timer reaches 0, the heater will turn off automatically.


#### 5. Open window function

The heater has an 'open window' function that is off by default. To activate this function, follow these steps after turning on the heater:

- Press .
- The display will show **FO**.
- Press  to turn on the 'open window' function. The display will show **ON**.
- Press  to turn off the 'open window' function. The display will show **OF**.
- Press  to save the setting or wait for 10 seconds to save automatically.

#### How the 'open window' function works:

If you open a window widely in the room, where the heater is located and the temperature drops by 2°C or more within two minutes, a sensor will detect the sharp drop in temperature. The heater will switch off automatically and show **FO** on the display.

After 10 minutes, the heater will return to the previous mode. However, you can manually restart the heater by pressing  and will come back to the previous mode. **FO** will disappear from the display.

## 6. Resetting the heater to factory default

Turn on the heater, then press and hold both  and  buttons at the same time within 3 seconds after the screen is bright.

## 7. Maintenance

- 1) Before cleaning, unplug the heater and leave it to cool.
- 2) Regularly wipe the heater with a damp cloth. Ensure the surface is completely dry before turning the appliance on again.
- 3) If the heater is in regular use, it must be cleaned at least once a month.

**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.**

- 4) Remove dust and debris with a soft cloth.
- 5) When not in use, store the heater in a dry and clean place.

## Waste disposal



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

## UK

If you have any questions, please contact our customer care center.

Our contact details are below:



0044-800-240-4004



[enquiries@mhstar.co.uk](mailto:enquiries@mhstar.co.uk)

IMPORTER ADDRESS:

MH STAR UK Ltd

1 Northampton Cross Logistics Park

Northampton Cross Road

Northampton

NN4 9FH

MADE IN CHINA

## Information requirements for electric local space heaters

Model identifier(s):820-352V70(NDFL788H-3E)					
Item	Symbol	Value	Unit	Item	Unit
<b>Heat output</b>			<b>Type of heat output/room temperature control (select one)</b>		
Nominal heat output	$P_{nom}$	1.2	kW	Single stage heat output and no room temperature control	[no]
Minimum heat output (indicative)	$P_{min}$	N/A	kW	Two or more manual stages, no room temperature control	[no]
Maximum continuous heat output	$P_{max.c}$	1.2	kW	With mechanic thermostat room temperature control	[no]
<b>Power consumption</b>			With electronic room temperature control		
In off mode	$P_o$	0.00	W	Electronic room temperature control plus day timer	[no]
In standby mode	$P_{sm}$	0.54	W	Electronic room temperature control plus week timer	[yes]
In idle mode	$P_{idle}$	0.55	W	<b>Other control options (multiple selections possible)</b>	
In network standby	$P_{nsm}$	N/A	W	Room temperature control, with presence detection	[no]
				Room temperature control, with open window detection	[yes]
Standby mode with display of information or status			[yes]	Distance control option	[no]
Seasonal space heating energy efficiency in active mode	$\eta_{s,on}$	Portable : 94,5 Fixed: 92,0	%	Adaptive start control	[no]
				Working time limitation	[no]
				Black bulb sensor	[no]
				Self-learning functionality	[no]
				Control accuracy	[no]
Contact details:	IMPORTER ADDRESS: MH STAR UK Ltd 1 Northampton Cross Logistics Park Northampton Cross Road Northampton NN4 9FH MADE IN CHINA				

## Information requirements for electric local space heaters

Model identifier(s):820-352V71(NDFL1202H-4E)					
Item	Symbol	Value	Unit	Item	Unit
<b>Heat output</b>			<b>Type of heat output/room temperature control (select one)</b>		
Nominal heat output	$P_{nom}$	2.0	kW	Single stage heat output and no room temperature control	[no]
Minimum heat output (indicative)	$P_{min}$	N/A	kW	Two or more manual stages, no room temperature control	[no]
Maximum continuous heat output	$P_{max.c}$	2.0	kW	With mechanic thermostat room temperature control	[no]
<b>Power consumption</b>			With electronic room temperature control		
In off mode	$P_o$	0.00	W	Electronic room temperature control plus day timer	[no]
In standby mode	$P_{sm}$	0.54	W	Electronic room temperature control plus week timer	[yes]
In idle mode	$P_{idle}$	0.55	W	<b>Other control options (multiple selections possible)</b>	
In network standby	$P_{nsm}$	N/A	W	Room temperature control, with presence detection	[no]
				Room temperature control, with open window detection	[yes]
Standby mode with display of information or status			[yes]	Distance control option	[no]
Seasonal space heating energy efficiency in active mode	$\eta_{s,on}$	Portable : 94,5 Fixed: 92,0	%	Adaptive start control	[no]
				Working time limitation	[no]
				Black bulb sensor	[no]
				Self-learning functionality	[no]
				Control accuracy	[no]
Contact details:	IMPORTER ADDRESS: MH STAR UK Ltd 1 Northampton Cross Logistics Park Northampton Cross Road Northampton NN4 9FH MADE IN CHINA				

