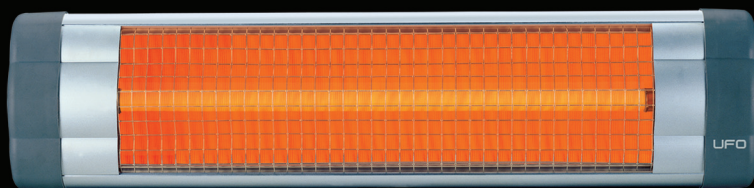
UFO®

INFRARED TECHNOLOGY



UFO USER MANUAL &
CERTIFICATE OF WARRANTY

WARNING!

DO NOT USE THE HEATER IN VERTICAL POSITION

ENGLISH

Distinguished Customer,

This manual has been designed for our UFO Line, UFO Star and UFO UK Line models.

You have purchased a high quality, efficient and original UFO-IR Infrared Heater.

We would like to express our gratitude to you for your appropriate choice and confidence in UFO. Please read this manual thoroughly in order to attain a sustainable satisfaction with your heater.

Please stick to the items in "Safety Instructions" section with strict observance.

Appropriate installation, operation and maintenance are of great importance for the security of you and of those who are to benefit from the heater.

The difference between UFO Classic, UFO Line and UFO Star models is the duration of lives of the filaments employed.

Please keep this Manual in a safe place for future reference and urgent needs.

We wish you to enjoy your new UFO Heater for better days and times…

All UFO brand products have CE certificate.

UFO®
INFRARED TECHNOLOGY

Center: *SUN Pazarlama Elk. Mak. Dan. ve Paz. Ltd. Şti.*
Akçaburgaz Mah. 72. Sok. No:17
Esenyurt / İstanbul

Factory: *UFO Işıkla Isıtma Sistemleri San. ve Tic. Ltd. Şti.*
Akçaburgaz Mah. 72. Sok. No:17
Esenyurt / İstanbul

RoHS COMPLIANT CE ISO 9001:2008 MADE IN TURKEY

1. Table of contents.....1
2. Safety.....2
2.1 Safety Instructions (A + B).....2-3
2.2 Safety Instructions (C + D + E).....4
3. Installation.....5
3.1 Installation Instructions.....5
3.2 Installation Instructions Position + Distance.....6
3.3 Installation Instructions with Right and Wrong Positions.....7
4. Application Fields.....8
5. Technical Information / Heating Area / Size.....9-10
6. Operating Instructions.....11
6.1 UFO Line / UFO Star.....12
6.2 UFO Line UK.....12
6.2.1 Definitions of the Buttons on the Remote Control 13
6.2.2 Definitions and Function of the Indicators on the Remote Control.....14
6.2.3 Operation of the Remote Control.....15-16
6.2.4 Manual Operation.....17
7. Differences among UFO Models and Specifications.....18
8. Cleaning and Maintenance Instructions.....19
9. Technical Service.....20
10. Terms of Warranty.....21

2. SAFETY

2.1 Safety Instructions (A + B)

A – Electrical Connection Safety

- Check whether your appliance and power cord are damaged before operating your appliance.
- Check whether there is any crack, disjoint or scratch on the filament (heating tube). If any, contact with your authorized technical service.
- If your appliance or power cord is damaged, do not operate your appliance and return it to your technical service.
- Make sure that the main electricity circuit is 220-240V and 110-120V, 50-60Hz and the connection is fused.
- Check the safety of the network. The fuse must be 25 A.
- Do not use your UFO heater together with another appliance plugged to the same multiple sockets or connected to the same fuse.
- Use your appliance with a properly earthed plug.
- The earthed plug must fall outside heating field and hot surface.
- The earthed plug must be installed in a level above the heater.
- The power cord must not be left on or around the frame of your UFO appliance.
- Unplug your appliance when you won't operate it for a long term or will conduct cleaning or maintenance.
- The heater glass has to be exchanged at a damage.
- If the cable of the heater should be damaged, this may be replaced only by the authorized service.
- It has to be notified that the mounting in the bath must be so that the persons in the bath can not reach the controls.
- It has to be notified that the product has to be installed at a dry location and may not be wet.

B – Safe distances required for installation on the wall, high temperature and fire protection

- Attention! The appliance must only be operated in a horizontal position with max ±'b1 5°'bc slope. In case of operations in angles larger than 5°'bc in horizontal position or of vertical operations, the heating loop wire may fall into disuse shortly.
- Never install your appliance on a combustible surface (carton etc.)
- The distance of your appliance from the ground is to be min 1,8 m.(6 feet)
- The distance of your appliance from the ceiling is to be min 0.7 m.(2.5 feet)
- The distance of your appliance from the corners to be installed is to be min 0.4 m (1.5 feet) and from the combustibles like curtains must be min 1m.(3.5 feet)
- The distance of your appliance from the living beings is to be min 1m.(3.5 feet)
- The distance of heating area of your appliance from the materials such as wood, carton, cloth etc., must be min 1 m.(3.5 feet)
- Do not cover your appliance and do not hang any clothing over the heater or do not place any clothing on or near the appliance.
- Do not stick anything into the protective grid.
- Do not make use of your heater to light up cigarette or similar materials.
- Supervision is needed when this product is used anywhere near children. The appliance is not intended for use by children or other persons without assistance or supervision if their physical, sensory or mental capabilities prevent them from using it safely.
- Risk of Fire – keep combustible material such as furniture, papers, cloths, and curtains at least 0.9m (3 feet) from the front of the heater and away from the sides and rear.

WARNING – TO REDUCE THE RISK OF FIRE

1) Do not place any objects such as furniture, papers, cloths, and curtains closer than 3 feet to the front of the heater and keep them away from the sides and rear when the heater is plugged in.
2) Do not place the heater near a bed because objects such as pillows or blankets can fall off the bed and be ignited by the heater.
3) Always unplug the heater if it is not being used.
4) Avoid the use of an extension cord because the extension cord may overheat and cause a risk of fire. However, if you have to use an extension cord, the cord shall be 14 AWG minimum size and rated not less than 2000 watts.
5) Do NOT operate within 7.6m 25 feet of flammable material.

- Never block the front grill of the heater.
- The heater is not suitable for hazardous locations.

NEVER attempt to service the heater without disconnecting its power source.

2.2 Safety Instructions (C + D + E)

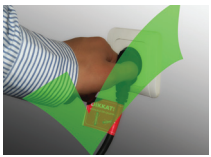
C – The distance from bath tub, washbasin or other sanitary installations

You may operate your heater in the bathroom and outdoors considering the items below:

- The distance of your appliance from bath tub, washbasin or other sanitary installations is to be min 0.6 m.(2 feet) The distance of 1 m (3.5 feet) is recommended for more safety.
- The distance of the earthed plug from bath tub, washbasin or other sanitary installations must be min 0.6 m.(2 feet)
- 1 m (3.5 feet) distance is recommended for more safety.

D – Cleaning and Maintenance Instructions (see page 19)

- Unplug your heater first. Never pull your power cable to unplug your heater.



Unplug power cable

Never pull your power cable to unplug your heater

- Take out the front grid to clean the reflector (reflecting mirror) and the filament and apply the instructions on page 19.

E – Repair and Service (page 20)

- Attention! Only technical services and persons authorized by SUN may serve, repair and replace the parts of this heater.

Distinguished Customer;
Please read safety instructions carefully for the security of you, your family and your belongings before operating your appliance.

Installation on the wall: Attention! The appliance must be installed on the solid surfaces like concrete and metal.

Never install on flammable surfaces!

See pages 4-7 to come up with the most appropriate installation method for your UFO.

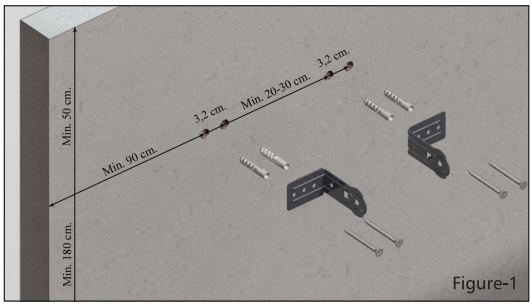


Figure-1

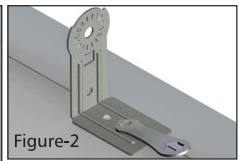


Figure-2

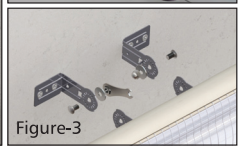


Figure-3

1- Drill four 8 mm diameter holes on the wall to the place where the unit will be placed with the distances shown in (Figure-1)

2- Insert the 8 mm diameter wall plugs,supplied with the unit ,into the holes.

3- Mount two of the L shaped legs on the wall using the 5x40 screws supplied with the unit.

4- Mount the other L legs on the unit using the six M5 screws and the small wrench as shown in

(Figure-2) (corresponding nuts are already built in on the body of the unit)

5- Mount and fix the L shape legs on the wall and on the unit respectively,using the M8x13 bolts and nuts and the washers as shown in (Figure-3) and tighten by using the wrench supplied.

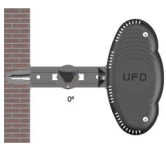
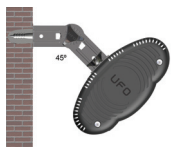


Figure-4

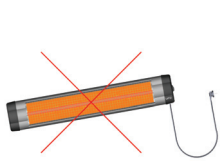


6- Depending on the area to be heated the angle of the unit can be adjusted between 0-45 degrees by the help of M8 bakelite head bolt and nut fixture.

7- Before operating the unit joints should be checked once again.

3.2 Installation Instructions Position + Distance

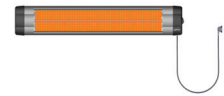
Installation Positions: Attention! Fixing only at ±'5° horizontally is of great importance for permanent operation.



5° or more slope

WRONG

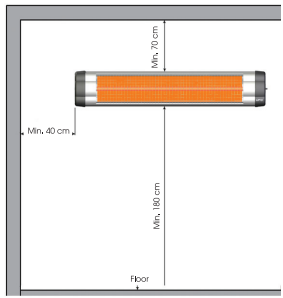
WRONG



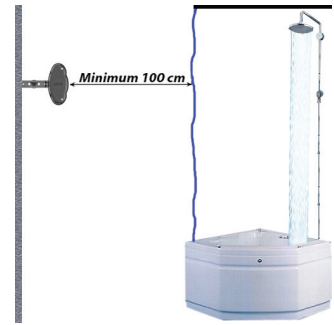
RIGHT

Safety Distances: Minimum distances required for safety

Minimum distances from wall corners

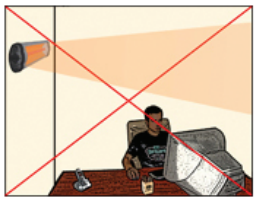


Minimum distances from coverage area and other objects



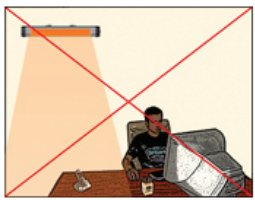
DIRECT YOUR HEATER TOWARDS THE MOST APPROPRIATE ANGLE

Do not let the light out through window, glasses etc. as the heater primarily heats the locations onto which its light falls.



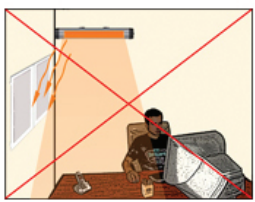
WRONG

RIGHT



WRONG

RIGHT



WRONG

RIGHT

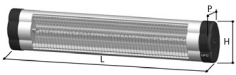
Application fields of UFO Line and UFO Star models.

Home Applications

- Sitting room
- Nursery room for children
- Guest room
- Corridor
- Bathroom
- Nursery room for babies
- Study room
- Summer house
- Hobby house
- Swimming pool

Office Applications

- Office
- Meeting room
- Entrance
- Workshop
- Shop
- Internet cafe
- Shopping centre
- Showrooms
- Swimming pool
- Classroom
- Conservatories
- Places of worship
- Factories and production bands
- Warehouse and loading zones
- Exhibition
- Hotel, nursery rooms
- Passages
- Warming spots in the airports
- Warming spots in the train stations



Product Name / Model / Volt / Watt / Heating Area / Size

UFO LINE

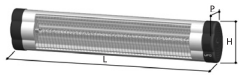
MODEL	Volt	Hertz	Power	Heating Area		Size			Weight
	V(~) (±10)	(Hz)	Watt	Outdoors (m^2)	Indoors (m^2)	H (cm)	P (cm)	L (cm)	(kg)
UFO - L / 12	110-120	60	1200-1400	8	12	19	10	74	2.5
UFO - L / 12	220-230	50-60	1200-1300	8	12	19	10	74	2.5
UFO - L / 12	230-240	50-60	1200-1300	8	12	19	10	74	2.5
UFO - L / 15	110-120	60	1500-1700	10	15	19	10	74	2.5
UFO - L / 18	220-230	50-60	1800-2000	12	18	19	10	86	3
UFO - L / 18	230-240	50-60	1800-2000	12	18	19	10	86	3
UFO - L / 23	220-230	50-60	2300-2500	16	23	19	10	86	3
UFO - L / 23	230-240	50-60	2300-2500	16	23	19	10	86	3
UFO - L / 30	220-230	50-60	2900-3200	20	30	19	10	108	3.6
UFO - L / 30	230-240	50-60	2900-3200	20	30	19	10	108	3.6

UFO LINE REMOTE CONTROL

MODEL	Volt	Hertz	Power	Heating Area		Size			Weight
	V(~) (±10)	(Hz)	Watt	Outdoors (m^2)	Indoors (m^2)	H (cm)	P (cm)	L (cm)	(kg)
UFO-UK/L	220-230	50-60	1800 - 3000	12 - 20	18 - 30	19	10	113	3.8
UFO-UK/L	230-240	50-60	1800 - 3000	12 - 20	18 - 30	19	10	113	3.8
UFO-UK/L2	110-120	50-60	800 - 1500	6 - 10	9 - 15	19	10	79	2.7

5. Technical Information – Heating Area / Size

Product Name / Model / Volt / Watt / Heating Area / Size



UFO STAR

MODEL	Volt	Hertz	Power	Heating Area		Size			Weight
	V(~) (±10)	(Hz)	Watt	Outdoors (m^2)	Indoors (m^2)	H (cm)	P (cm)	L (cm)	(kg)
UFO - S / 12	110-120	60	1200-1400	8	12	19	10	74	2.5
UFO - S / 14	220-230	50-60	1400-1550	10	14	19	10	74	2.5
UFO - S / 14	230-240	50-60	1400-1550	10	14	19	10	74	2.5
UFO - S / 15	110-120	60	1500-1700	10	15	19	10	74	2.5
UFO - S / 18	220-230	50-60	1800-2000	12	18	19	10	86	3
UFO - S / 18	230-240	50-60	1800-2000	12	18	19	10	86	3
UFO - S / 23	220-230	50-60	2300-2500	16	23	19	10	86	3
UFO - S / 23	230-240	50-60	2300-2500	16	23	19	10	86	3
UFO - S / 30	220-230	50-60	2900-3200	20	30	19	10	108	3.6
UFO - S / 30	230-240	50-60	2900-3200	20	30	19	10	108	3.6

UFO STAR REMOTE CONTROL

MODEL	Volt	Hertz	Power	Heating Area		Size			Weight
	V(~) (±10)	(Hz)	Watt	Outdoors (m^2)	Indoors (m^2)	H (cm)	P (cm)	L (cm)	(kg)
UFO-UK/S	220-230	50-60	1800 - 3000	12 - 20	18 - 30	19	10	113	3.8
UFO-UK/S	230-240	50-60	1800 - 3000	12 - 20	18 - 30	19	10	113	3.8

H: Height P: Profundity L: Length

Heat Control by Thermostat UFO

The thermostat adjustment is conducted in accordance with required room temperature.

Switch the thermostat on the highest mode to heat the cold rooms.

The heater operates constantly when the thermostat is in the highest mode.

When desired room temperature has been attained, the heater may be operated with certain intervals adjusting the thermostat (21-24 C).

You may reduce the energy costs to the minimum level in certain room temperatures through appropriate thermostat adjustment.

Switching off during the maintenance or long term disuse

When the appliance is not operated for long a term, cleaning or maintenance is conducted or when the location of the heater is changed, the electricity connection is turned off unplugging the power cord and adjusting the thermostat in "0" mode.

6.2 UFO Line UK

6.2.1 Definitions of the Buttons on the Remote Control

The functions of your heater may be controlled via the buttons on your remote control and LCD screen. You may also control some of the functions of your heater through the buttons on the front side of the heater.

Remote Control

1. **On / Off**

   Switches on or off the heater or stands it by.

   \+ -

2. ▲ / ▼ (Program Up / Down)

   Adjusts program settings..

3. **Clock**

   Sets the time.

4. **Timer On**

   Switches on the heater in stand by mode.

5. **Timer Off**

   Switches off the heater in preset time and starts stand by mode.

6. **Sleep**

   Switches off the heater in preset time

7. **Everyday**

   Makes the heater operate in preset parameters everyday.

8. **Cancel**

   Cancels all settings.

9. **LCD (Liquid Cristal Display)**

   Displays the settings of the remote control and related indicators.

Warning!

Insert the batteries of your remote control

6.2.2 Definition and Functions of the Indicators on the Remote Control

Symbol	Description
	Power mode indicator
	Time settings indicator
	On time indicator
	Off time indicator
	Indicates remaining time to switch off the heater
	Indicates that “"everyday” function is on
	Logo

6.2.3 Operation of the Remote Control

Inserting Batteries

Insert 2 AAA/ Alkaline type batteries into your Remote Control.

1- Flip the backside of your remote control and pull out battery cover. Insert the batteries in accordance with the instructions and polarity of the batteries.

2- Change the batteries in the same way depicted above.

NOTICE:

1- Replace the old batteries with the same type batteries. Otherwise, your heater may not function well.

2- Pull out the batteries in case of long terms of disuse to prevent leakage which may impair your remote control.

The screen of the remote control starts functioning after inserting the batteries. UFO logo and flashing clock indicator starts appearing on the screen.

Power mode indicator (mode1) starts functioning after pressing **On / Off** button.

Power Mode Adjustment

Press + ▲ / - ▼ buttons to adjust the power mode of your heater. Time settings are to be conducted for the rest of the functions to operate.

Time Settings

Adjusting the time

Press **Clock** button.

Press + ▲ / - ▼ buttons to set hour and minutes. Press **Clock** button to save your settings. Press **Cancel** button to cancel time settings.

NOT: Repeated presses on the buttons will gear the speed of buttons and intervals with the presses will slow down the process.

On / Off Time

Warning! The time is to be set precisely and the heater is to be operating before using On / Off time function.

On Time Settings

Press **Timer On** button. Press + ▲ / - ▼ buttons to set hour and minutes. Press **Timer On** button to save your settings.

6.2.3 Operation of the Remote Control

Off Time Settings

Press **Timer Off** button.

Press + ▲ / - ▼ buttons to set hour and minutes.

Press **Timer Off** button to save your settings.

Sleep Timer Settings

Warning! The time is to be set precisely and the heater is to be operating before using **Sleep** Timer function.

Press **Sleep** button.

Press + ▲ / - ▼ buttons to set sleep time from 1 to 12 hours.

Press **Sleep** button to save your settings.

Remaining time will appear on the screen.

Note:

Press **Cancel** button to cancel all time settings. The settings will recede unless you press **(Clock, Timer On, Sleep ve Timer Off)** necessary button to save your time settings in 20 seconds.

Press Cancel button to cancel all kinds of time settings.

Repeated presses on the buttons will gear the speed of buttons and intervals with the presses will slow down the process.

Press Cancel button with the intervals of 3 seconds to cancel all settings of your remote control.

Set your Sleep timer again in case of turning off and on the heater.

Once you set your On/Off time, such functions will operate in daily set times.

The heater is to be in stand-by mode to operate On timer.

Clock and UFO logo keeps functioning in stand by mode.

Control through the main module on the heater:

HO indicator appears on the screen when the heater is switched on and it is in **stand by** mode.

The 1st digit on the screen illustrates **H** symbol while 2nd digit illustrates power level mode from 1 to 5.

The button number 1 on the heater functions as **ON / OFF**. The heater starts operating at the power level mode at which it has been switched off.

Press the button number 2 on the heater to adjust power mode.

Tilt indicator starts functioning and "2 " 3 indicator appears on the screen warning through a buzzer voice when the heater operates in a slope larger than 5°. The heater starts operating in **stand by** mode (**H0**) when it has been adjusted in the right position.

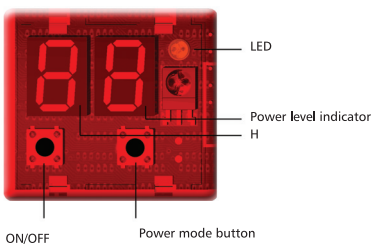
H0 appears on the screen when pressed **ON / OFF** button and the power level mode (**H1**, **H2**, **H3**, **H4** and **H5**) is adjusted through the buttons on the remote control.

Press **ON / OFF** button on the remote control or the heater itself to switch off the heater.

The heater starts functioning in **stand by** mode after electricity cut.

LED keeps flashing in case of a program set by remote control.

Buzzer signal is given following each command.



7. Difference among UFO Models and Specifications

UFO® INFRARED TECHNOLOGY		UFO MODELS		
		Line	Star	UFO Line UK
Body Color	Naturel		✓	
	Champagne	✓		✓
Body material	Aluminium	✓	✓	✓
Warranty	2 years		✓	
	3 years	✓		✓
	4 years			
* Filament life time / Hours	12.000			
	9.000	✓		✓
	6.000		✓	
Plastic Cover	Holey	✓	✓	✓
	Flat			
Power cord length	2,75 m	✓	✓	✓
Remote control	IR- control			✓
Reflector	Aluminium	✓	✓	✓
Reflector side part	Aluminium	✓	✓	✓
Grid Wire	16x16x1.2 mm	✓	✓	✓
Voltage	220 ± 10 V (AC)	✓	✓	✓
Frequency	50 Hertz	✓	✓	✓

* In case of appropriate operations

Maintenance

Attention! Careful and regular maintenance of UFO Infrared Heater considering our instructions assume great importance so as to attain a long and efficient operation of your appliance.

1- Check the filthiness of the Reflector and IR – Filament at least once a month. If necessary, apply cleaning and maintenance instructions.

2- The number of checks may be increased considering the amount of the dust in the environment.

3- Check the deformation of the Reflector, Wire and Frame visually while cleaning the appliance. In case of any deformation, consult to your technical service.

4- Check the Power Cord and Plug visually while cleaning the appliance. In case of any deformation, consult to your technical service.

5- It is recommended to change the Reflector every 2 years for the purposes of more efficient operation of your appliance.

Cleaning

Attention! Regular and careful cleaning helps your UFO Heater operate for longer years and more efficiently.

1- Unplug your power cord for your safety before cleaning your appliance.

2- Take out the front grid wire through the inlets on the frame using a slotted screwdriver.

3- Make sure that the power is off for your safety. Power cord plug must be unplugged.

4- The Reflector and Filament must be cleaned with a soft cloth, a smooth brush or cool or dry air. The cloth may be damp but never too wet and the cleaner should not include any chemical.

5- Refrain from using cleaning materials likely to damage the Reflector (cleanser etc.).

6- Insert the wire grid using a slotted screwdriver.

9. Technical Service

Attention!
Only technical services and persons authorized by SUN may serve, repair and replace the spare parts of this heater.

Points to be considered before shipping the product to the technical service:

1- Make sure that the thermostat of your appliance is in "0" mode.
2- Make sure that the plug, to which the appliance is connected, has power, check the fuse and power cord. If the plug lacks power, consult to an electrician.
3- Make sure that the appliance has been installed in accordance with the instructions in the manual. If the installation is inaccurate, consult to technical service.

Call the dealer to get service

Warranty by SUN does not cover the defects arising out of the improper use the appliance. The warranty does not cover the situations below:
1- The damages and defects arising out of improper use.
2- The damages and defects having occurred during the transportation after the delivery of the product to the customer by the company.
3- The damages and defects arising out of low or excessive voltage, ungrounded plug usage, faulty electricity systems, operating the appliance in different voltage values other than specified in the instructions.
4- The damages and defects arising out of fire and lightening.
5- The damages and defects arising out of repairs and maintenance by persons other than Authorized Services.
6- The defects arising out of the breach of the instructions in the manual.
7- The damages and defects arising out of the transportation of the product instead of repair.

Attention! Faulty maintenance and cleaning are not covered by the warranty.

1- The dust and polluters in the environment.
2- Damage in the reflector or filament due to faulty cleaning.
3- Faulty installation or dismantlement.
4- Operating with damaged filament, frame or power cord.

Above mentioned defects and services are not covered by the warranty.

Should this product be proven defective in workmanship or material, the consumer's sole remedies shall be such repair or replacement as provided by the terms of this warranty. Under no circumstances shall SUN be liable for any loss or damage, direct, consequential, or incidental, arising out of the use of or inability to use this product.

This warranty will be voided if the certificate of warranty lacks the stamp and signature of the supplier as well as the date of purchase.

This warranty will become void if the serial number (if applicable), model number identification, or brand have been wholly or partially removed or erased.

All UFO brand products have CE certificate.

PRODUCER

UFO IŞIKLA ISITMA SİSTEMLERİ
SAN. VE TİC. LTD. ŞTİ.
Akçaburgaz Mah. 72. Sok. No:17
Esenyurt/İSTANBUL
Marmara Kurumlar V.D. 885 039 35 33
Tel: (0212) 886 30 00

SUN

CE

This symbol on the product or its packaging indicates that the appliance cannot be treated as normal domestic trash, but must be handed in at a collection point for recycling electric and electronic appliances.

Your contribution to the correct disposal of this product protects the environment and the health of your fellow men. Health and the environment are endangered by incorrect disposal. Further information about recycling of this product can be obtained from your local town hall, your refuce collection service, or in the store at which you bought the product.

Notes