

INVERTER[®]

INVERTER[®] 3007
5005
5007
6007

INSTRUCTIONS

Français	2
English	36
Español	63
Nederlands	90
Italien	117
Deutsch	147
Portugeese	174
Dansk	200

Thank you for choosing INVERTER ,and for your trust in our brand name. Please read this manual carefully before using the Unit. It is important that you handle and use the Unit according to the instructions, to prolong its life, and to avoid problems and accidents.

After reading the manual, keep it for ready reference.

INDEX

Specifications.....	37
1. Special precautions	38
2. Selection of location	41
3. Names of parts	42
4. Names and functions of operating buttons	43
5. Examples of Display	46
6. Before using the unit.....	47
1) Setting the unit	47
2) Fuel to be used.....	47
3) Fuel filling.....	49
4) Checks before use.....	50
7. How to operate the unit.....	50
1) Pre-ignition preparations and check points	50
2) Ignition.....	51
3) 5-second ignition	51
4) Condition of flame.....	52
5) Temperature control	52
6) ECO mode.....	52
7) Child Lock (safety lock for children).....	53
8) How to use the Timer	53
9) How to switch off the heater.....	54
10)Count down	54
8. Safety devices	56
9. After sales service.....	57
10. Problems and trouble shooting.....	58
11. Trouble shooting and reference table	59
12. Storing (when not in use for a long period).....	60
13. Regular maintenance.....	61
14. Periodical check.....	62
15. Replacing spare parts	62
16. Environmental protection	62

INVERTER SPECIFICATIONS

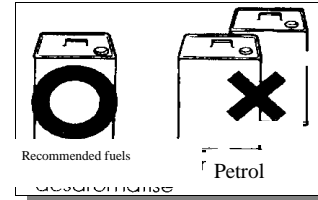
MODELS		3007	5005	5007	6007
Type		1	2	2	3
Type of burner		Fuel Injection fan heater			
Fuel	RECOMMENDED	TOZANE rolf (reduced Odour) Liquid Fuel			
	TEST STANDARD	C1 PARAFFIN TO BS2869-2			
Ignition		High voltage discharge ignition			
Fuel consumption (g/h)	MAX	250	267	267	333
	Average	158	167	167	200
	MIN	67	67	67	67
Fuel consumption (l/h)	MAX	0,31	0,33	0,33	0,42
	Average	0,20	0,21	0,21	0,25
	MIN	0,08	0,08	0,08	0,08
Nominal output (Watt)	MAX	3000	3200	3200	4000
	Average	1900	2000	2000	2400
	MIN	800	800	800	800
Fuel tank capacity (L)		5	5	5	5
Continuous combustion: Remaining Capacity (Days) MIN - MAX		0,7 -2,6	0,6 -2,6	0,6 -2,6	0,5 -2,6
Count down (H)		59	59	59	59
Suitable room size in m ³ MAX		120	128	128	160
Unit overall dimensions (HxWxD)		45X40X31	45X40X31	45X40X31	45X43X31
Weight kg		9,5	9,5	9,6	10
Voltage and frequency		230V Mono phase, 50HZ			
Rated power consumption(W)		22 W	22 W	22 W	22 W
Monitoring of ventilation quality (air renewal) Measurement of CO2 level		Direct	Undirect	Direct	Direct
Fuse		Tube type 5A x 2			
Safety devices		Automatic Safety Shut Off Device. Automatic Over-Heating Protection. Flame and Burner Monitoring Systems. Power-Cuts Protection System. Incom-			

Technical data is subject to change by the LNE Test Laboratories without notice.

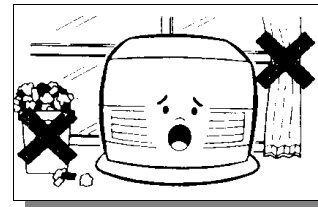
1. SPECIAL PRECAUTIONS

Special precautions must be taken when you are using your electronic fan heater.

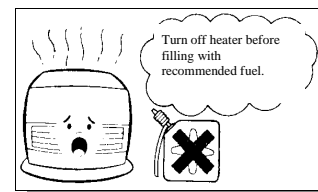
Always use fuel recommended for your heater. Never use highly volatile fuel, such as, for example, petrol, due to the danger of causing a fire.



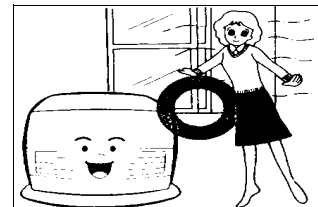
Avoid locations close to curtains, etc.
Avoid dusty locations.



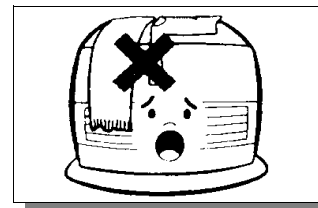
Turn off heater before filling with recommended fuel
Clean up any drops of fuel thoroughly
To prevent fire do not fill with fuel in the room .



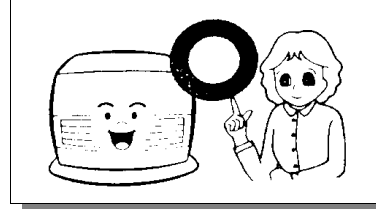
When using the Unit, ventilate the room at least once or twice (one or two minutes each time) per hour when using the heater. Never use the heater without ventilating the room properly. (Shortage of oxygen causes imperfect combustion, which may cause highly toxic carbon monoxide emissions).



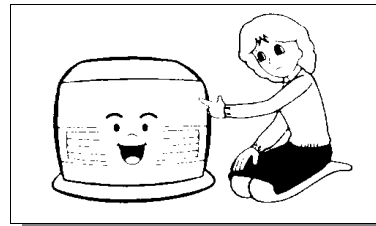
Do not obstruct Warm Air Blower or Air Intake with paper or any other materials.



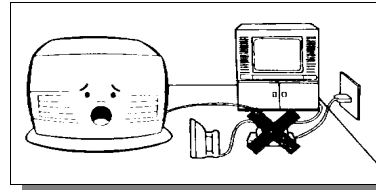
Turn heater off and be sure the burner is out before going to bed or leaving the room.



Turn off Unit to extinguish burner in emergency or in event of improper combustion. Keep calm.

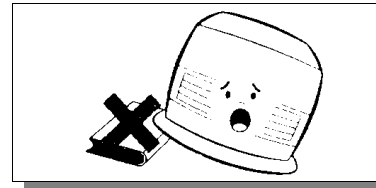


Ensure electrical socket is properly wired, and only use it for this Unit.

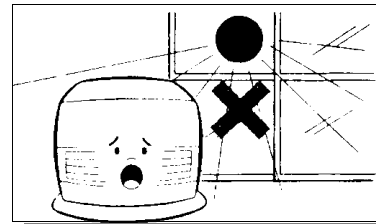


Use heater on flat surface. Avoid surfaces subject to vibration.

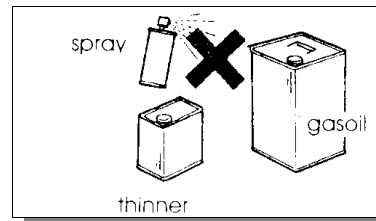
Never transport your heater with fuel in the fixed tank and/or in the removable fuel tank, (in a car, etc.) .



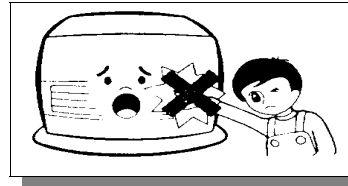
Avoid locations exposed to direct sunlight.
Avoid damp locations.



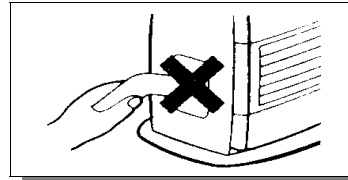
Keep hair spray or volatile or inflammable liquids or fuels such as petrol or thinners, or other combustible materials away from the heater.



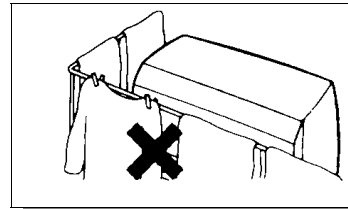
Do not touch blower grill while heater is on or immediately after use. (Children must be warned about this and kept under supervision).
If the unit is for a child, elderly person, or handicapped person, somebody must supervise their use of the unit



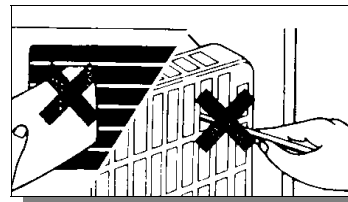
Service your heater regularly.
Do not hang clothing near the heater, which could obstruct the air intake and outlet. Warm air could flow back and interfere with the operation of the control panel and systems.



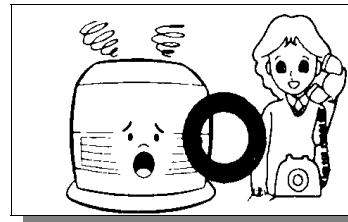
Keep all objects, such as cloth or paper, away from blower systems.



Keep fingers or objects out of the air intake.
Never inhale close to the air filter, when cleaning it..



Do not re-use broken or defective spare parts.
All repairs must be properly completed. See your local retailer.



* Avoid using hair spray containing silicone close to the unit. Silicones may cause improper combustion in the unit.

* Avoid being too close to warm air from the unit for a long period. It may cause low-temperature burns or dehydration.

* Remove the power plug from the socket when unit is not in use for a long period. Dust on the plug reduces insulation and may result in short circuit, over-heating or fire. Clean power plug regularly.

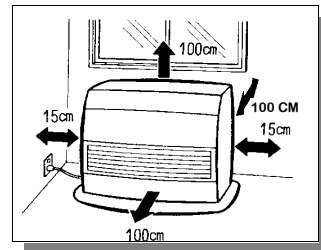
* Hold plug to remove power cord. Pulling cord may break the wire and result in an electric shock or fire due to a short circuit.

2. SELECTION OF LOCATION

Choose the location for your heater carefully, to get optimum performance from the Unit.

SAFETY PRECAUTIONS TO BE TAKEN

- * Keep all obstructions and flammable materials away from the Unit, and observe the minimum distances shown on the following illustration. Keep curtains away from the Unit. Likewise, the Unit should be placed away from the wall. Failure to do so may cause overheating, triggering the safety device and automatically switching off the heater.
- * Place the heater on a flat surface, on the floor.
- * Do not place on or below an unstable shelf.
- * Do not use where flammable gases may be generated or may have accumulated.
- * Use in properly ventilated areas only.

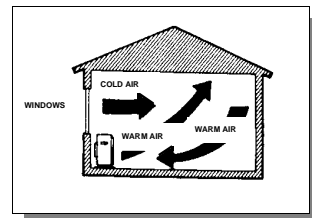


KEEP UNIT AWAY FROM LOCATIONS WHICH ARE:

- * In a room with lots of people passing through, or exposed to draughts;
- * Confined areas such as under a mantelpiece;
- * In direct sunlight, or very dusty areas, or where the temperature tends to rise quickly.
- * Locations more than 1,000 metres above sea level.
- * In places where gas or chemicals are used, such as beauty salons, barber's shops, chemical plants, laundries, etc..

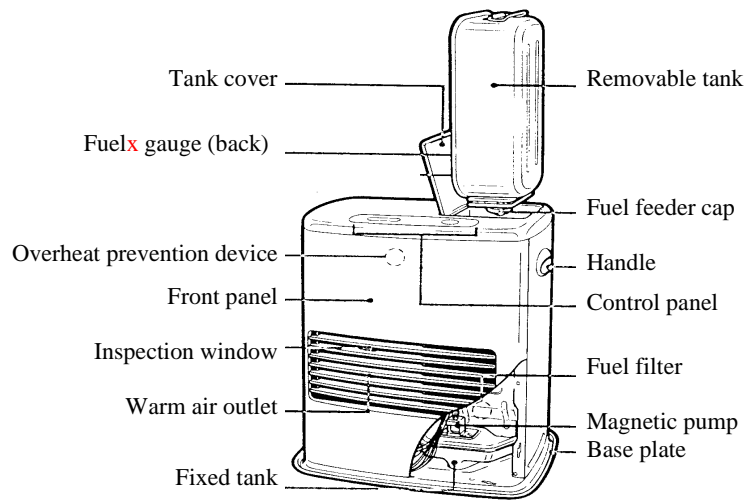
OPTIMUM EFFICIENCY

- * A good choice is a location, near or under a window, where the heater is directly in contact with fresh air .
- * Air circulation in front of the heater must not be restricted by any obstacle. In such circumstances, the room temperature could be unstable and the Unit could overheat. Try to leave maximum free space in front of the heater.

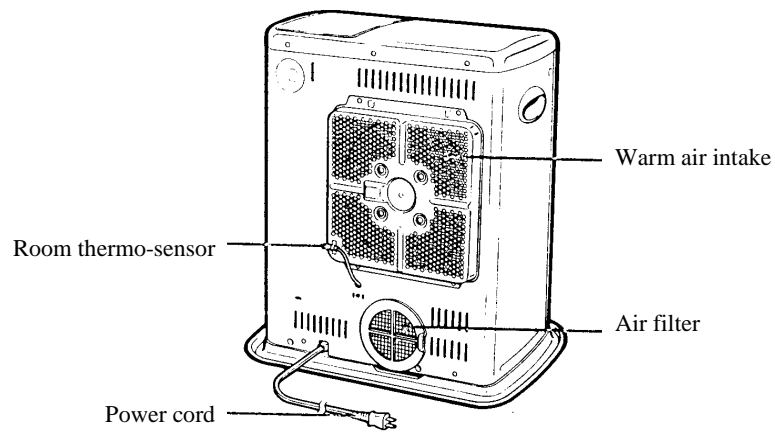


3. NAMES OF SPARTS

FRONT



BACK









5. EXAMPLES OF DISPLAY

SET TEMP. ROOM TEMP.

MUST USE
ENGLISH
SYMBOLSAM

午前 20:00 給油
午後 5秒

TIME TIMER

FUEL
5 SEC

TIME SET (HOURS) TIMER SET (TIMER)

SET TEMP. ROOM TEMP.

22 18

Temperature Display
Left: Set temperature (12-30 deg. C.)
Right: Room temperature (0-35 deg. C.)

SET TEMP. ROOM TEMP.

AM 午前 8:30
時計合わせ

TIME SET

Clock/Time Setting Mode
(set present time at 8 : 30 am)

SET TEMP. ROOM TEMP.

AM 午前 6:30
タイマー合わせ

TIMER SET

Timer Setting Mode
(set timer at 6 : 30 am)

SET TEMP. ROOM TEMP.

- - - -

— — Display
Initial display

SET TEMP. ROOM TEMP.

0 FF

Automatic Shut-Off
Automatic shut-off by count down has occurred.

SET TEMP. ROOM TEMP.

CL

CL Display
Child Lock is set. Unit will NOT operate.

SET TEMP. ROOM TEMP.

E9

E9 Display
Automatic shut-off device (in the event of Unit toppling/
earthquakes) has been activated. Check the unit and re-start.

SET TEMP. ROOM TEMP.

17H

Count down
17 hours left before your heater will shut off automatically.

CO2

CO2 display
The CO2 analyser detected an abnormal level of CO2, the room
should be properly ventilated before using the heater

6. BEFORE USING THE UNIT

1) Setting up the unit

Remove the Heater unit from the carton box and remove packing materials.
Remove fuel tank from the unit.

2) Fuel to be used

Use only uncontaminated Paraffin to BS2869:C1, or ROLF (or TOSAINE) Fuel, as recommended the Distributor.

More than 95 % of problems are due to using a wrong type of fuel. These problems are not covered by our Guarantee.

Only top-quality C1 Paraffin to BS2869, or recommended Reduced Odour Liquid Fuels, with the aromatics removed and totally free of impurities (max 1 % of aromatics and a flash-point above 61°) should be used.

Never use contaminated fuels, or fuels which have been chemically treated, or contain water or petrol.

Your container should be clean and empty if you fill it at a retailer. No impurities or other liquids (water, diesel, petrol, etc.) should remain. You should keep a container specifically for fuel for your heater.

HOW TO DISTINGUISH BETWEEN fuels suitable for your heater, and Petrol

Dip a finger tip into the fuel and blow on it:

Suitable fuels :	Stay wet
Petrol :	Dries immediately

FUEL STORAGE

Store your fuel out of the sun and away from other heat sources.

Fuel which has been stored too long loses its purity, and thus its efficiency.

FILLING WITH FUEL.

Even when the removable tank is out of the heater it will run for a time.

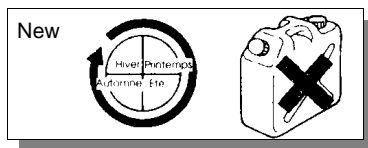
You should fill your heater:

- When your heater is switched off.
- And in a place away from the heater.

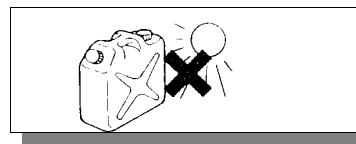
You must always check that the tank cap is properly fastened. Please re-fill away from any other heat source or fire.

WHAT IS POOR QUALITY OR IMPURE FUEL ?

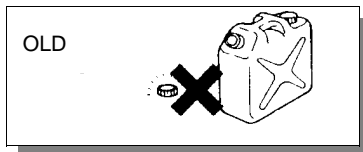
- * Last season's fuel.



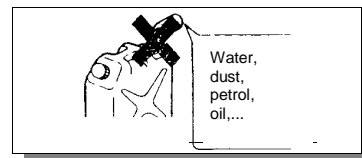
- * Fuel which has been exposed to the sun or high humidity



- * Fuel stored in a container which has not been properly closed or which lets the light through



- * Fuel which has been mixed with some water or dust or a different type of fuel other than C1 Paraffin



- * Poor quality fuel has an acid smell.
- * Use up fuel within the season.

WHAT HAPPENS IF YOU FILL WITH POOR QUALITY FUEL?

- * Tar forms in the evaporator, and ignition and switch off become difficult.
- * May cause abnormal combustion, and shut off during use.

WHAT TO DO IF YOU INADVERTENTLY USE POOR QUALITY FUEL?

- * Drain the fuel from both the removable tank and the fixed tank and flush with clean fuel 2 or 3 times.

Note : Repairs or service for problems caused by poor or impure fuel will be charged to the user, even during the warranty period.

3) FUEL FILLING

Procedure for filling with fuel :

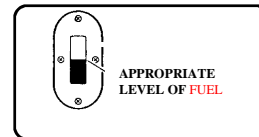
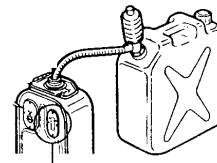


PLEASE MAKE SURE THAT THE UNIT IS TURNED OFF, AND THERE ARE NO FLAMMABLES WITHIN THE VICINITY OF THE UNIT.

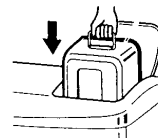
1. Remove fuel tank from the unit and open the cap.
Do not drop the fuel tank.
Remove cap by turning counterclockwise



2. Fill the tank with fuel.
Fill with fuel using a pump and watching fuel gauge.
Stop filling when the fuel shows half way up the gauge.
* Do not force the fuel feeder cap. It may cause fuel to leak.



3. Close the cap
Place the tank back in the unit (cap goes downward).
Caution : Turn the tank upside down and make sure there are no leaks before replacing it in the unit.



Note:

- * If filling fuel in a cold place and the tank is filled to less than half, open fuel feeder cap for a time, until the temperature of the fuel adjusts to room temperature before replacing the tank.
- * Be careful not to spill fuel on the Full Alarm sensor.

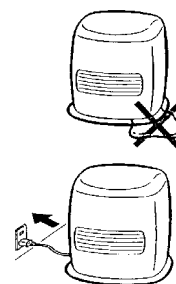
If fuel is running short...

The fuel lamp blinks and the alarm of stationary tank from the heater sounds as warning. If the heater continues to run (for about 20-40 minutes), the unit will automatically shut off, and the alarm will sound, and the fuel lamp and ON lamp will blink rapidly.

Note : After automatic shut-off, fill the fuel tank before using again.

4) CHECK BEFORE USE.

1. Make sure that there are no fuel leaks around the unit.
If any leaks are found, remove the fuel tank from the unit and consult a dealer.
2. Power: The Plug must be securely in the socket.
Use a properly wired household wall socket (single phase 240 V).



7. HOW TO OPERATE THE UNIT

1) PRE-IGNITION PREPARATIONS AND CHECK POINTS

- * **Level:**
When the Unit is placed in a level position the auto shut-off device is automatically turned on.
If the Unit is not level, this can result in incorrect combustion and the flames may burn high or red. If this happens auto shut-off device will not work properly.

2) **Ignition**

Press ON/OFF button.

ON lamp blinks.

After a pause for pre- heating, the unit automatically turns on.

ON lamp lights .

- * The sound of ignition on lighting is quite normal.
- * The pre-heat time until ignition is about 2 minutes, depending on the room temperature. (2 to 3 minutes if room temperature is below 5 deg. C).
- White smoke and smell when lighting and switching off are normal. (When the room temperature is low, vapour from the combustion gas looks white).

3) **5 sec ignition (except type 1)**

Press 5 SEC button.

When 5 SEC lamp is on, ignition starts in 5 seconds after pressing ON/OFF button.

To cancel, press 5 SEC button again and ensure 5 SEC lamp is off.

- * To operate 5-second ignition, the 5 SEC lamp must be on for at least 2 minutes.
- * 5-second ignition automatically cancels after 12 hours.
- * When the 5-second lamp is on when the unit is turned off, only 100 W of current is consumed.
- * When 5-second lamp is on when the unit is turned off, the warm air intake gets slightly warm.
- * 5 second ignition is automatically cancelled when the Timer is set.

What is 5-second ignition ?

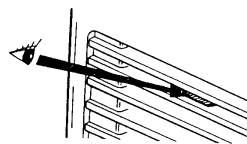
5-second ignition is a feature to shorten ignition time by pre-warming the heater before it is switched on.

After a period without use, or on first use at the beginning of a season:

- * After replacing the tank in the heater, wait 4 to 5 minutes before turning on .
- * During ignition, it is possible for the varnish and the paint to become hot and thus to cause some smoke or a slight odour. This situation is quite normal. Just ventilate the room for a while.
- * The heater may not ignite the first time if there is some air in the combustion system. The ignition procedure should then be repeated once or twice.
- * On first ignition, smoke or odour may occur, and the flame may become temporarily larger due to air mixed in the fuel feed pipe. This is quite normal.
- * Pre heating time may be longer than usual.

4) Flame Condition

When the unit is lit check the condition of the flame through the inspection window.
If the condition of the flame is abnormal, consult your dealer.



Normal flame:
Blue flame with a slight yellow.



Abnormal flame 1:
Flame shrinking. Produces noise or smell and eventually extinguishes.



Abnormal flame 2:
Yellow flame surrounds the burner.



5) Temperature control

When the heater is ignited, you can set the required temperature. Press TEMP ADJ button and set desired temperature.

- * The Room thermo-sensor controls the heat automatically, according to the temperature selected.
- * As the room thermo-sensor senses the temperature around the unit, there may be a slight difference in temperature between the room thermo-sensor and any thermometer in the room.
- * The Room thermo-sensor does not work properly if the unit is exposed to direct sunlight or a draught, or exposed to heat from other heating / lighting appliances or during the first 20 minutes after each switch ON.

Fuzzy control

Depending on room temperature, and time of ignition, the unit will automatically run at a higher temperature until the walls / floor get warm.

6) ECO mode (type 2, 3 and 4)

Press ECO button.
Save lamp turns on.
To cancel, press ECO button again.

What is the ECO operation ?

If the temperature gets three degree C higher than the selected temperature, the unit automatically shuts down. When the temperature falls to the temperature selected, the unit automatically ignites again to maintain the temperature.

Set ECO mode on warm days or in a comparatively warm room.

- Notes :
- * ECO lamp remains on when ECO shuts the unit off.
 - * Once ECO mode is set it is stored automatically until / unless a power failure occurs or the power plug is removed.

7) Child lock (safety lock for children).

Press CHILD LOCK button 3 times.

- * Press CHILD LOCK button 3 times within 3 seconds when the unit is off.
- * The Child lock is set and the digital display shows "CL".
- * To cancel CHILD LOCK, press CHILD LOCK button 3 times again.
 - * The unit can not be operated if CHILD LOCK is set.
If ON/OFF button is pressed, the alarm sounds and "CL" in the display blinks, indicating that CHILD LOCK is set.
- * It is not possible to select both 5-seconds ignition and CHILD LOCK at the same time.

What is CHILD LOCK ?

A function to prevent mis-use by young children.

8) How to use the Timer ?

How to set present time ?

Set present time while the heater is turned off.

Select Time set mode.

Press mode button and select Time set mode.

Set present time by pressing CLOCK/TIMER (hour and minute)

- * Time is originally set at 12:00 pm.
- * Be careful not to mix am and pm.
- * Digital figures will revert to original display if the Time is not set within 5 seconds.
- * Figures advance quickly, if the button(s) is (are) held down.

How to set the TIMER ?

Set the TIMER when the heater is turned off.

- * Press MODE button and select Timer setting mode.
- * Set Timer in the same manner as setting Time.
 - * Timer time is stored on input.
 - * Timer is originally set at 6:00 am.
 - * If no setting action is made for 5 seconds, during Timer setting, the LCD automatically reverts to CLOCK Mode..

HOW TO OPERATE TIMER?

- * Press the Timer button when the unit is on
- * The Timer lamp lights and the digital display changes to clock mode.
- * The unit automatically switches on at the selected time.
- * Press On/Off button to cancel Timer mode.
 - * When the room temperature is relatively low, the unit switches on between 5 and 15 minutes earlier than the selected time.

WARNING : Please change air in the room from time to time.

WARNING : Please do not set the Timer to start when nobody is in the room.

- * To confirm Timer set time, press mode button and select Timer mode.
- * If the Timer is not set, or the power plug is not switched on, or there is a power failure, the Timer will not work.
In such cases, re-set present time and Timer once more.

9) Stop operation

Press ON/OFF button.

ON/OFF lamp turns off.

The fan continues to run until the unit cools down.

Please make sure the flame is extinguished.

10) Explanation of the COUNT DOWN function

For security reasons, your heater will shut off automatically after 59 hours of heating, depending on the maximum running time of the heater at minimum output.

To check the remaining hours before auto shut off of your heater, you can:

- Press 3 times on the MODE button when your heater is working.

The numbers that appear show the possible remaining running time until automatic shut off. (This does not indicate the remaining burning time of your heater before re-fuelling is necessary, -this depends on the Mode and on the litres remaining in the tank).

(To operate continuously for 59 hours, you would need to fill up the tank several times, depending on the consumption of the heater.)

Each time the heater is switched OFF, for whatever the reason (ex: ON/OFF button, programming, Fuel alarm...), the COUNT DOWN is reset and will again display the maximum remaining continuous running time possible.

DISPLAY	DESCRIPTIONS
5 8H	The heater has just started.
5 7H	The heater has been running for about 1 hour.
1H	The heater will switch OFF in 1-2 hour's time.
0H	The heater will switch OFF in 1/2-1 hour's time.
OFF BLINKING	The heater will switch OFF in 30 minutes.
OFF LIGHTED	The heater is OFF.

Except in emergencies, never try to extinguish the burner by hitting, or unplugging the unit.

- NOTES :**
- * Do not turn off the unit by pulling out the power plug except in an emergency.
 - * In the period shortly after the unit is turned off, the Ignition sound may be louder.
 - * Excessive, repeated turning On and Off of the unit, may cause odours.

AIR-SENSOR DETECTOR

This heater has been designed with an Air-sensor device. Abnormal conditions of use of your heater (bad ventilation or too small a room, too important CO₂ content) will automatically cause the shut-off of your heater, and the Air-sensor light will come on.

IMPORTANT

Any tampering with, or modification to the safety systems is prohibited. Apart from invalidating the guarantee, this can create the risk of a failure of the systems, which are there for your safety.

RESTRICTION ON USE

This heater must not be used in places which are hermetically sealed, such as caravans, boats, passenger compartments of vehicles etc.

IMPORTANT

- Use your heater in a room which is properly ventilated, and free of inflammable vapours.
 - All rooms in which the heater is used must be adequately ventilated (the ventilator aperture must have a minimum surface area of 50 cm²).
 - Do not use your heater in too small a room :
 - 3000 watts : min 46 M3
 - 3200 watts : min 49 M3
 - 4000 watts : min 61 M3
- In case of damage to the power cord, it must be replaced only by a repairer, recommended by the manufacturer (or distributor).
- Always maintain a minimum clearance of 1 metre from any other objects.



**DO NOT USE YOUR
HEATER IN ROOMS
SITUATED BELOW
GROUND LEVEL.**

8. SAFETY DEVICES

The unit will not automatically switch on after dealing with an Error, triggered by a Safety device. It must be switched On again, to resume use.

AUTO SHUT-OFF DEVICE

A sudden movement or strong impact triggers this system. The system is automatically reset when the unit is correctly re-positioned. Check and if necessary eliminate the cause, and then reignite the unit.

PREVENTION OF INCOMPLETE COMBUSTION

A shortage of oxygen, due, for example, to using the Unit for a long time without ventilating the room, or because of a dirty air filter, triggers this system, in order to switch off the burner , to prevent the unit from burning abnormally. Make sure that your room is ventilated at least once or twice per hour, and that the air filter is cleaned. This system extinguishes the burner, and warns the user that the room is improperly ventilated.

Whenever any of these safety systems is triggered, ventilate the room and check and eliminate the cause, and then reignite.

SAFE IGNITION SYSTEM AND FLAME CONDITION MONITOR

This system stops the fuel supply to the burner if there is a danger of the unit catching fire. If the cause can not be corrected, contact your local dealer.

AUTOMATIC-POWER FAILURE SAFETY DEVICE

In case of power failure or the plug becoming disconnected from the socket, this system protects the unit from any possibility of abnormal combustion resulting. When the power is restored , switch on again.

OVERHEATING PREVENTION SYSTEM

If warm air outlet and warm air intake systems are blocked ,or if the heater front panel is obstructed, the unit automatically switches off. Eliminate the cause of overheating, wait until the inside of heater cools and re-ignite.

WARNING if the power cord needs replacing.

In case of damage , the power cord must only be replaced by a repairer recommended by the manufacturer (or distributor) -some special tools are required.

9. AFTER SALES SERVICE

If your heater needs repair:

- * See your local dealer.
- * Before requesting service from your dealer, consult this hand book carefully, and check that the problem really does need the attention of a professional.

10. PROBLEMS AND TROUBLE SHOOTING

In exceptional circumstances, the following phenomena may arise. You should check the possible causes before seeing your local dealer.

	DESCRIPTION	CAUSES
During Ignition and Switch Off procedures	Smoke and smell come from unit when it is switched off.	Heat-resistant paints and dust are burning off. Ventilate the room for a while, until smoke and smell go.
	Unit does not ignite at the start of the season, or after it has not been used for some time.	Wait for 4 to 5 minutes, until fuel fills up the fixed tank, before igniting unit. Some air may be in the fuel system. Try the ignition procedure 2 or 3 times.
	Unit does not ignite immediately.	It takes about 90 to 120 seconds to preheat, depending on the room temperature before fuel is volatilised. The preheating time varies depending on the ambient temperature.
	White smoke and/or a smell comes from unit when igniting and/or extinguishing.	Some smoke and smell are normal.
During combustion	Unit makes a slight noise on ignition and on switch off.	This is normal. Unit expands when heated and contracts when switched off.
	Ignition plug, flame rod and burner head turn red.	They glow when heated.
	Flames turn brilliant reddish orange. There is a sound like running water while unit is burning.	This happens under the following circumstances, and is normal. * Unit is burning in salty air, such as near the sea. * Unit is burning in a humid environment or in atmosphere containing impurities. * Unit is being used together with an ultrasonic humidifier. This happens when fuel flows from the removable tank to the fixed tank. There is nothing wrong.
	There is a clack sound in the unit while unit is burning.	This is the magnetic pump sound. This is normal wrong.
Others	Warm air outlet gets dirty.	Clean as set out under "REGULAR MAINTENANCE"



SELF DIAGNOSIS

If there is an "E" display, take following measures:

* **E0 E2 E4**

The unit shuts off at the time of ignition or during operation:
Get rid of water or dust in fuel filter and fixed tank, and switch on again.
If there is no improvement, refer to your dealer.

* **E1 E5 E6 E7**

Trouble with electrical parts:

* Needs repair. Refer to your dealer.

E9

Auto shut-off device activated.

* Check around the unit, and then re-start .

-----EH

Power failure or overheat prevention device is activated:
Remove any obstruction from in front of the unit; next check and clean the warm air intake, after the unit has cooled down, and then re-start the unit.

[02

Followed from three BIPS, it means that the unit was put in air sensor security.
Air the room and check if your unit is at the good distance with the wall and other stuff. (see page 39)

12. STORING (WHEN NOT IN USE FOR A LONG PERIOD)

1. Remove the power cord from the socket.
2. Clean the warm air intake, warm air outlet, and air filter.
3. Empty the removable fuel tank, and fixed tank.
Residual fuel may cause rust etc.
4. Clean fuel filter.
5. Get rid of dust from the unit.
Remove front panel and clean inside the unit with vacuum cleaner.
6. Clean surface of the unit with a wet cloth and wipe with a dry cloth.
7. Replace the unit in its carton box, and place it in a dry, level place .

Caution: Do not tilt the unit, or lay it on its side.

Keep this manual handy for future reference

13. REGULAR MAINTENANCE

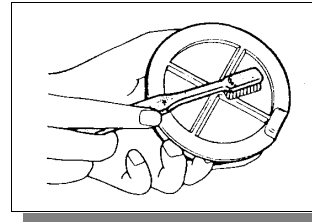
All cleaning and maintenance must be done after switching off the heater, disconnecting the plug from the socket, and after waiting until the unit has cooled down.

CLEANING OF AIR FILTER (MORE THAN ONCE A WEEK)

Remove air filter from the unit, and clean it with vacuum cleaner or a brush.

Caution: A clogged air filter causes incomplete combustion.

- * After washing air filter, dry well before replacing.
- * Do not run the unit without the air filter.

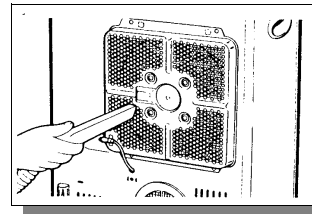


WARM AIR INTAKE (AT LEAST ONCE A WEEK)

Clean with vacuum cleaner or a brush.

Do not bend or tug the room thermo sensor.

Note: A clogged air intake reduces the volume of air, and the overheat prevention device may be activated, due to the high temperature in the unit..



CHECK THAT THE AUTOMATIC SHUT-OFF DEVICE IS OPERATING PROPERLY (ONCE OR TWICE PER MONTH)

With your heater working, move it to see if the automatic shut-off device is operating.

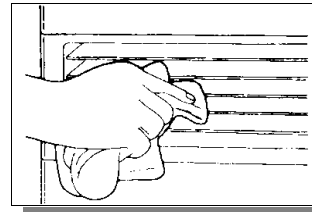
Never try to take it down.

Never take the auto shut-off device apart.

MAINTENANCE OF THE WARM AIR OUTLET (ONCE OR TWICE PER MONTH)

There may be an accumulation of dust on the top, around the heater or on the warm air outlet

.First clean with a damp cloth, than with a dry duster.



CLEANING OF FUEL FILTER AND FIXED TANK (ONCE OR TWICE A SEASON)

If there is any water or dust in the fuel filter or fixed tank, the following situation may occur, even if there is sufficient fuel in the tank.

- Does not ignite _____
- Flame lengthens and gives off odours.
- Switch off during operation _____



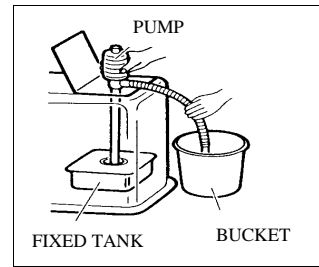
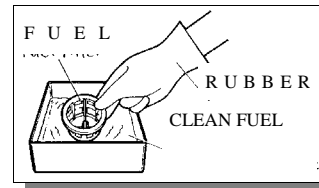
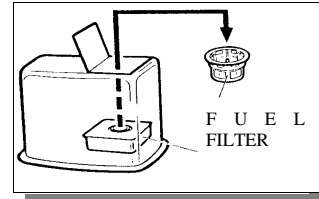
In all the above instances, clean the fuel filter as follows:

1. Remove the fuel filter from the fixed tank
 - * Be careful not to allow water or dust into the fixed tank.
2. Clean the fuel filter with fuel
 - * First get rid of water or dust from the fuel filter before cleaning.
 - * Treat gently so that the filter does not get damage.

Note: Never wash fuel filter with water.
4. Replace fuel filter in original position.
Wipe up any spilled fuel.

Note: If any of above conditions persist after cleaning, consult your dealer.

Caution: Never dismantle, or replace electrical parts, or burner parts.



* Never disconnect electrical parts, and never replace them with non-approved parts.

14. PERIODICAL CHECK

Periodical checks are required after using the unit for a time. Ask your dealer about the checks necessary.

15. REPLACEMENT OF THE SPARE PARTS

Only use genuine parts, available at your local dealer.

The manufacturer can not be responsible for problems caused by use of non-approved spare parts, or because of repairs undertaken by unqualified personnel.

Ensure that you ask for only genuine parts from your local dealer. In addition to invalidating your guarantee, using non-genuine spare parts also reduces the performance of your heater, and, above all, causes accidents.

16. ENVIRONMENTAL PROTECTION

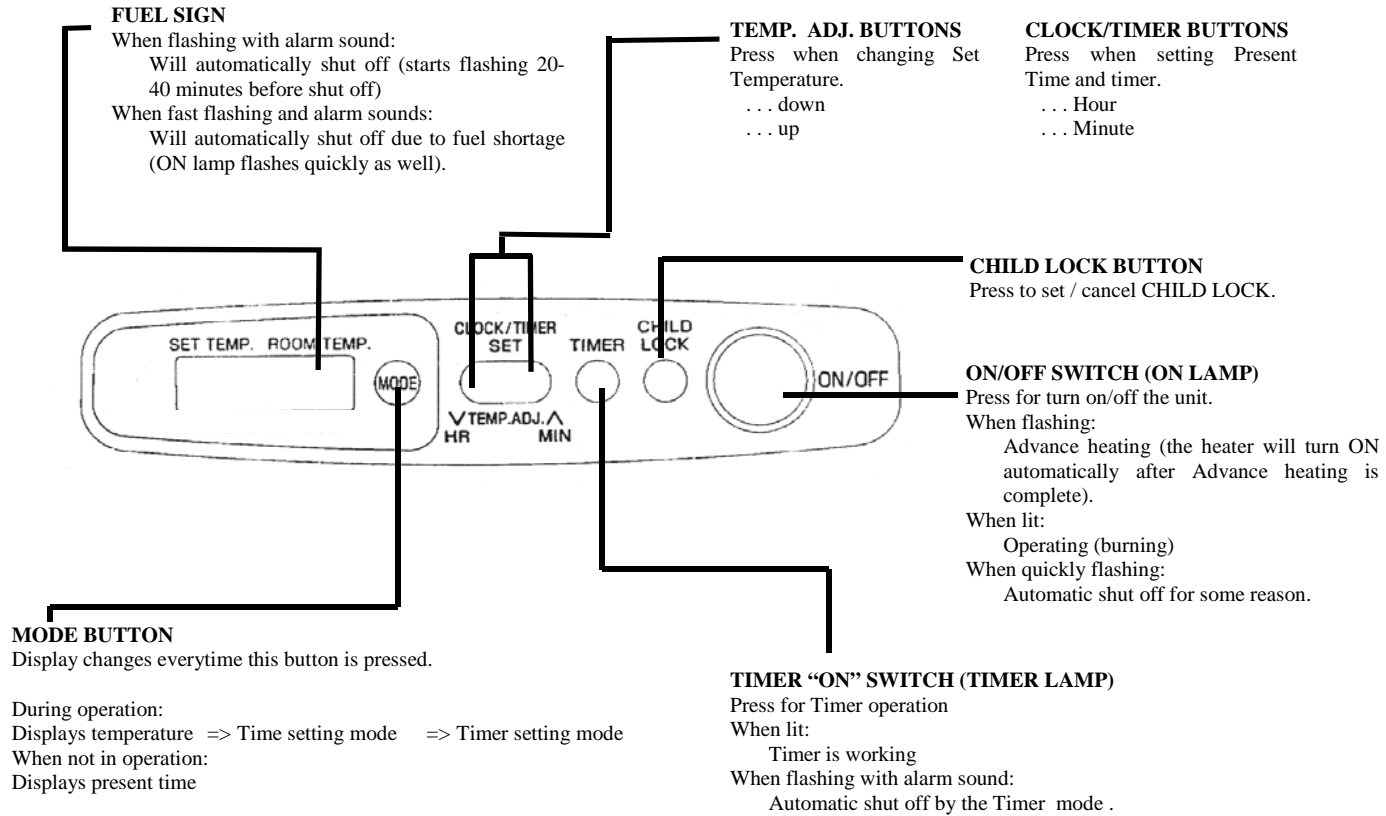
Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist.

Check with your Local Authority or retailer for recycling advice.



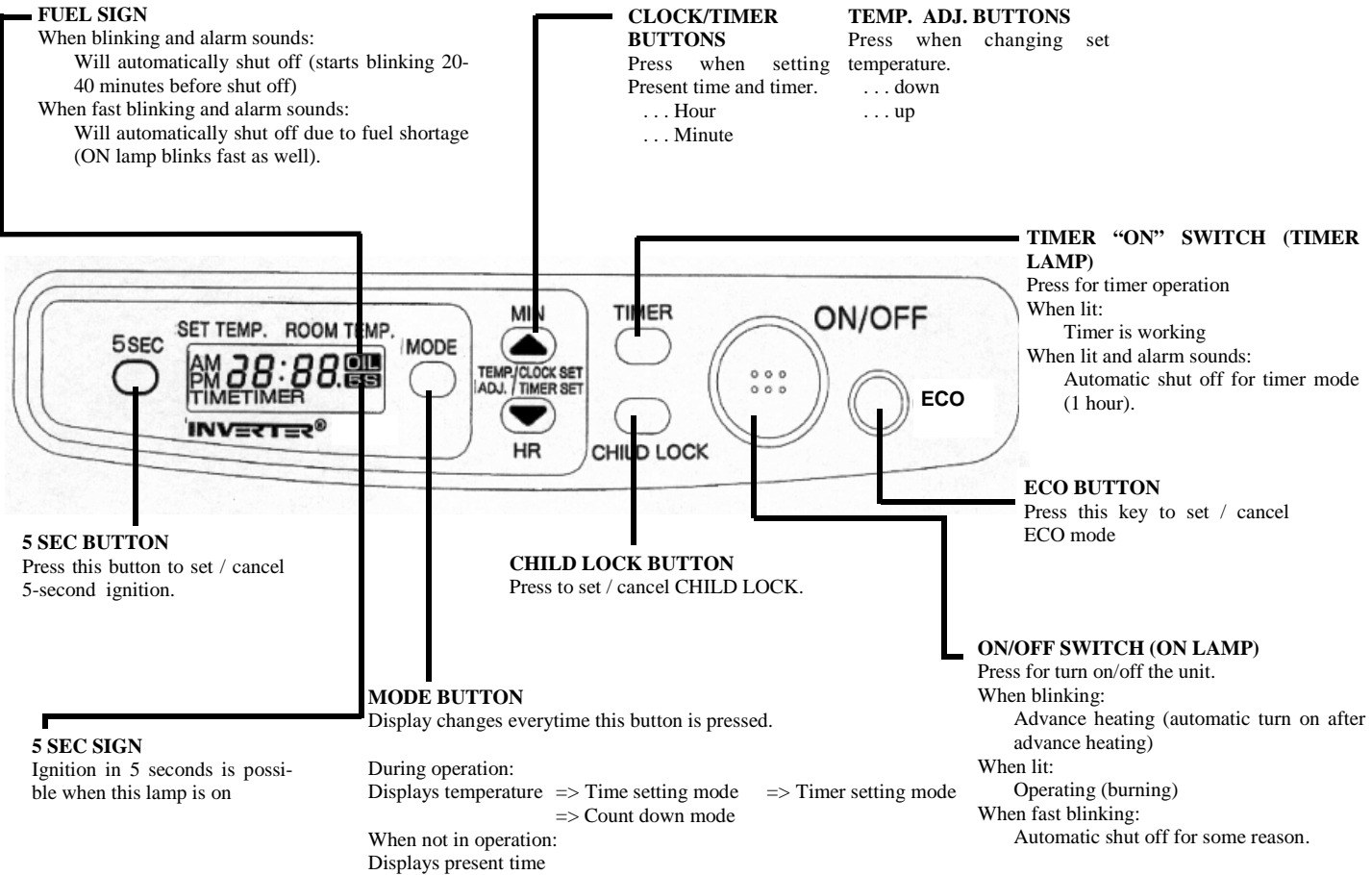
4. NAMES AND FUNCTIONS OF OPERATING BUTTONS

INVERTER 3007



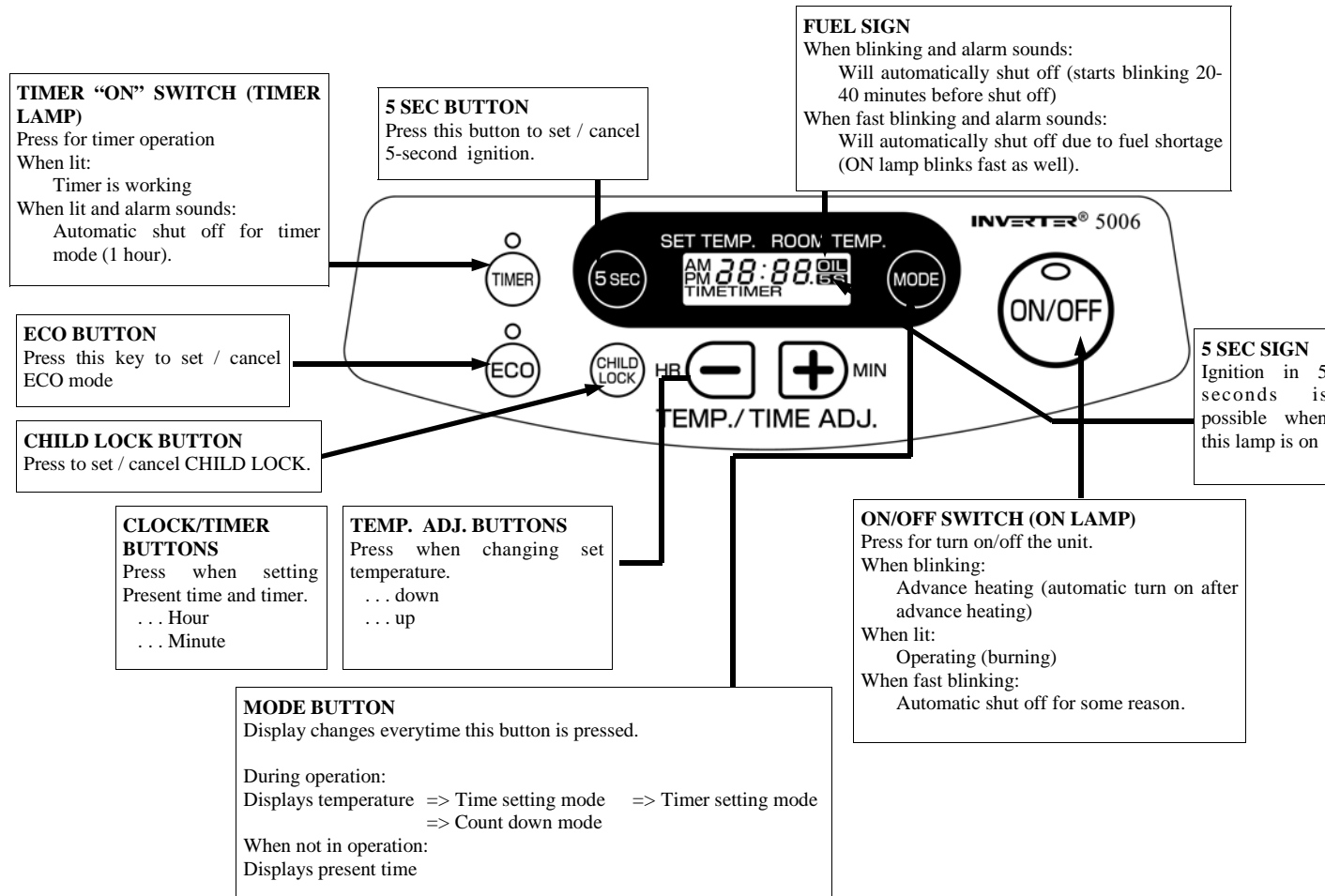
INVERTER 6007 AND 5005

44



INVERTER 5007

45



The following is a trouble-shooting table with problems and their probable causes. Take the necessary measures suggested as soon as possible. See your local distributor if necessary.

11. TROUBLE SHOOTING AND REFERENCE TABLE

Phenomena		Causes								Solutions
		Unit does not ignite	While smoke appears, but soon goes away	A smell fills the room while unit is in use.	Flames go out while the unit is in use	Flames are reddish	Flames rise suddenly	Fuel leaks	"E" Indications	
The plug is not properly in place.		■								Make sure plug fits properly in power outlet.
Power failure.		■								Wait until power comes back.
Auto shut-off device has been triggered.					■					Reignite unit, change unit location to a better place.
The tank is empty.		■							OIL	Fill the fuel tank.
Fuel feeder cap is loose.								■		Fasten the cap tightly.
Fuel		■	■	■	■		■		E0 E2 E3 E4	Change to clean fuel.
Water and/or dust in fuel.		■	■		■		■		E0 E2 E3 E4 OIL	Remove water and clean filter.
Fuel tank is not fitted properly.		■			■				OIL	Refit fuel tank properly into fixed tank.
Fuel filter is not fitted.		■			■				OIL	Fit it properly into fixed tank.
Fuel system connections are loose.				■	■		■	■		See your local distributor.
Air filter is clogged.		■	■	■	■	■			E0 E2 E4	Clean air filter.
Overheat prevention device has	Warm air outlet is blocked.			■	■				EH	Remove the obstruction.
been triggered	Air intake is blocked.			■	■				EH	Clean air intake area.
Anti-room temp. overheating device is triggered.					■				EH	Open the window, and ventilate the room.
Child lock is set.		■							E9	Release child lock