

Inverter 5096

POUR UNE ATMOSPHERE SAINE ET CONFORTABLE

Pour maintenir une atmosphère saine et confortable dans votre pièce, voici quelques informations.

Certaines critiques ont pu être quelquefois formulées à l'encontre des chauffages mobiles à combustible liquide, telles que:

- "ils dégagent des odeurs".
- "ils provoquent de l'humidité dans les pièces".

Dans certaines conditions, il se peut que l'appareil dégage une odeur, nous avons recensé ci-après les causes possibles:

- au début de la première utilisation de l'appareil
- à l'allumage et à l'extinction (suivez bien les conseils donnés dans la notice et éteignez doucement votre chauffage)
- combustible ancien ou mal conservé
- combustible ayant une teneur en hydrocarbures aromatiques élevée (la teneur maximale autorisée est limitée à 1% en volume)
- bidon souillé, mélange de combustibles
- locaux où des solvants volatils sont utilisés.

En prenant les précautions nécessaires, vous diminuerez considérablement et même éliminerez les risques de provoquer des odeurs. Si toutefois vous souhaitez n'avoir aucune odeur, privilégiez les combustibles de synthèse à haute pureté (très faible teneur en hydrocarbures aromatiques) dits "sans odeur" et suivez les conseils ci-dessus.

Comme la respiration humaine, tout appareil de chauffage utilisant un combustible (bois, charbon, gaz, fioul, pétrole) produit des gaz de combustion (gaz carbonique et vapeur d'eau) qu'il faut éliminer.

Le présent appareil n'étant pas raccordé à un conduit d'évacuation vers l'extérieur, il doit être utilisé dans un local suffisamment ventilé.

Veillez donc à ce que l'endroit où vous placez cet appareil de chauffage soit bien ventilé en respect des règles de constructions des bâtiments.

Note préparée par les membres du comité particulier de la marque NF-Convecteurs à pétrole - Juin 1994

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.

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THIS PRODUCT CAN NOT BE USED AS MAIN HEATING
INSTRUCTION MANUALS ARE ALSO AVAILABLE IN PDF FORMAT ON THE WEBSITE :
WWW.ESEGE.COM

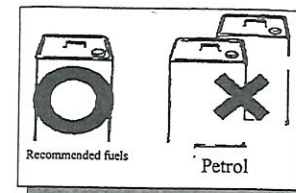
INVERTER SPECIFICATIONS

MODELS		3026 CE	5026 CE 5086 UK	6026 CE
TYPE		1	2	3
Type of burner		Fuel Injection fan heater		
Fuel	RECOMMENDED	TOZANE (reduced Odour) Liquid Fuel		
	TEST STANDARD	C1 PARAFFIN TO BS2869		
Ignition		High voltage discharge ignition		
Fuel consumption (g/h)	MAX	250	267	333
	Average	158	167	200
	MIN	67	67	67
Fuel consumption (l/h)	MAX	0,31	0,33	0,42
	Average	0,20	0,21	0,25
	MIN	0,08	0,08	0,08
Nominal output (Watt)	MAX	3000	3200	4000
	Average	1900	2000	2400
	MIN	800	800	800
Fuel tank capacity (L)		5	5	5
Continuous combustion (days):		0,7 -2,6	0,6 -2,6	0,5 -2,6
Count down (H)		59	59	59
Suitable room size in m ³ MAX		120	130	160
Unit overall dimensions (HxVxD) cm		45x40x31	45x40x31	45x43x31
Weight kg		9,5	9,6	10
Voltage and frequency		230V/240V Mono phase, 50HZ		
Rated power consumption : In operation		22 W	22 W / 22 W	22 W
Warm up stage		650 W	650 W / 720 W	650 W
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. Incomplete Combustion Protection Device.		

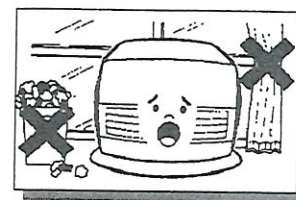
1. SPECIAL PRECAUTIONS

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

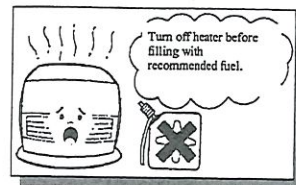
Always use recommended Tozane (Reduced Odour) Liquid Fuel in your heater, or clean, pre-packed C1 Paraffin to BS2869. Never use highly volatile fuel, such as, for example, petrol, due to the danger of causing a fire.



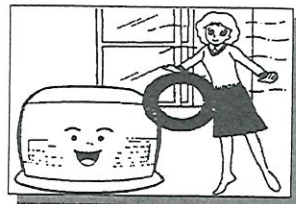
Avoid locations close to curtains, etc.
Avoid dusty locations.



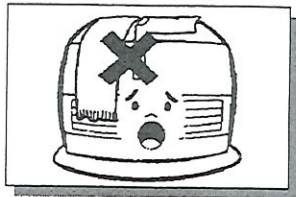
Turn off heater before filling with recommended fuel
Clean up any drops of fuel thoroughly
To prevent fire do not fill with fuel in the room.



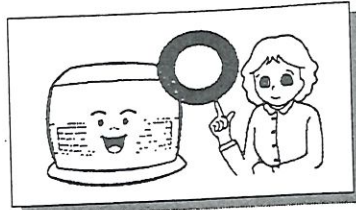
When using the Unit, ventilate the room at least once or twice (one or two minutes each time) per hour when using the heater. Never use the heater without ventilating the room properly. (Shortage of oxygen causes imperfect combustion, which may cause highly toxic carbon monoxide emissions).



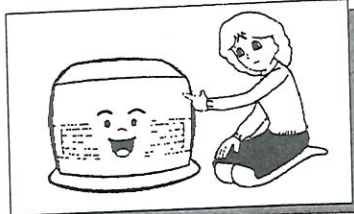
Do not obstruct Warm Air Blower or Air Intake with paper or any other materials.



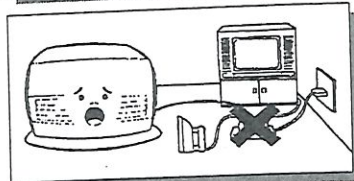
Turn heater off and be sure the burner is out before going to bed or leaving the room.



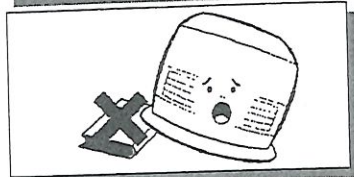
Turn off Unit to extinguish burner in emergency or in event of improper combustion. Keep calm.



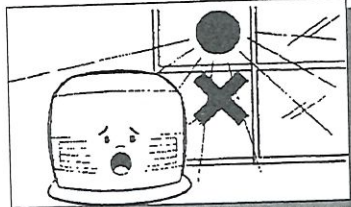
Ensure electrical socket is properly wired, and only use it for this Unit.



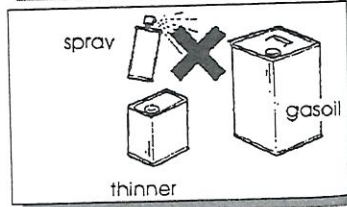
Use heater on flat surface. Avoid surfaces subject to vibration. Never transport your heater with fuel in the fixed tank and/or in the removable fuel tank, (in a car, etc.).



Avoid locations exposed to direct sunlight. Avoid damp locations.

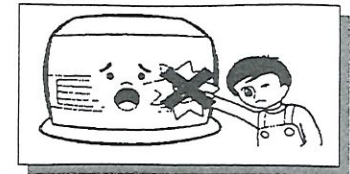


Keep hair spray or volatile or inflammable liquids or fuels such as petrol or thinners, or other combustible materials away from the space heater.



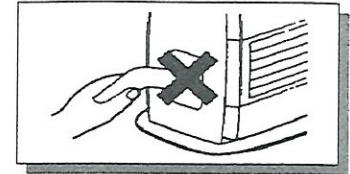
Do not touch blower grill while heater is on or immediately after use. (Children must be warned about this and kept under supervision).

If the unit is for a child, elderly person, or handicapped person, somebody must supervise their use of the unit

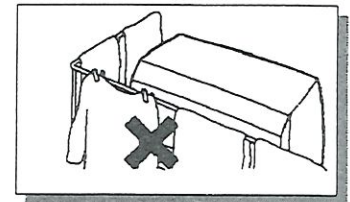


Service your heater regularly.

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.

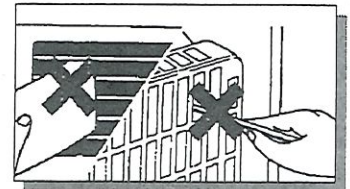


Keep all objects, such as cloth or paper, away from blower systems.



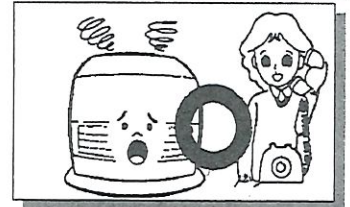
Keep fingers or objects out of the air intake.

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. Silicone 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.

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 155 cm²)
- Do not use your heater in too small a room :
Inverter 3016 CE: 46 m³ (+/- 18 m²)
Inverter 5016 CE/UK: 49 m³ (+/- 20 m²)
Inverter 6016 CE: 61 m³ (+/- 25 m²)
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.

Always maintain un safety distance of min 1 meter between your heater and any foreign object.

The using of this kind of heater inside area which received public must comply to a local demand or rules. In any case you must always get information from local authorities.

This heater must not be used by persons (including children) divested of experience or acknowledge, except when they were able to benefit thought a person responsible for their safety, for a surveillance or for preliminary instructions concerning the use of the heater.

You must take care about children playing with the heater in to avoid any risk.



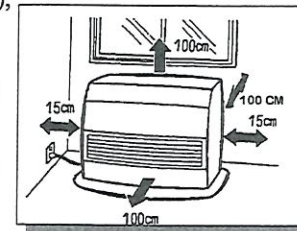
DO NOT USE YOUR HEATER IN ROOMS SITUATED BELOW GROUND LEVEL.

2. SELECTION OF LOCATION

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

SAFETY PRECAUTIONS TO BE TAKEN

- * ENSURE ADEQUATE VENTILATION. For example, in a modern home , insulated to current standards:
 - Use ONLY in a room with an openable window or external door,
 - Plus a permanent vent of minimum size 155cm²
 - With a minimum room size of 46m³ (3016), 49m³ (5016), 61m³ (6016).
- Keep all obstructions and inflammable 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.

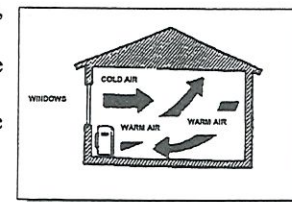


KEEP UNIT AWAY FROM LOCATIONS WHICH ARE:

- * 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

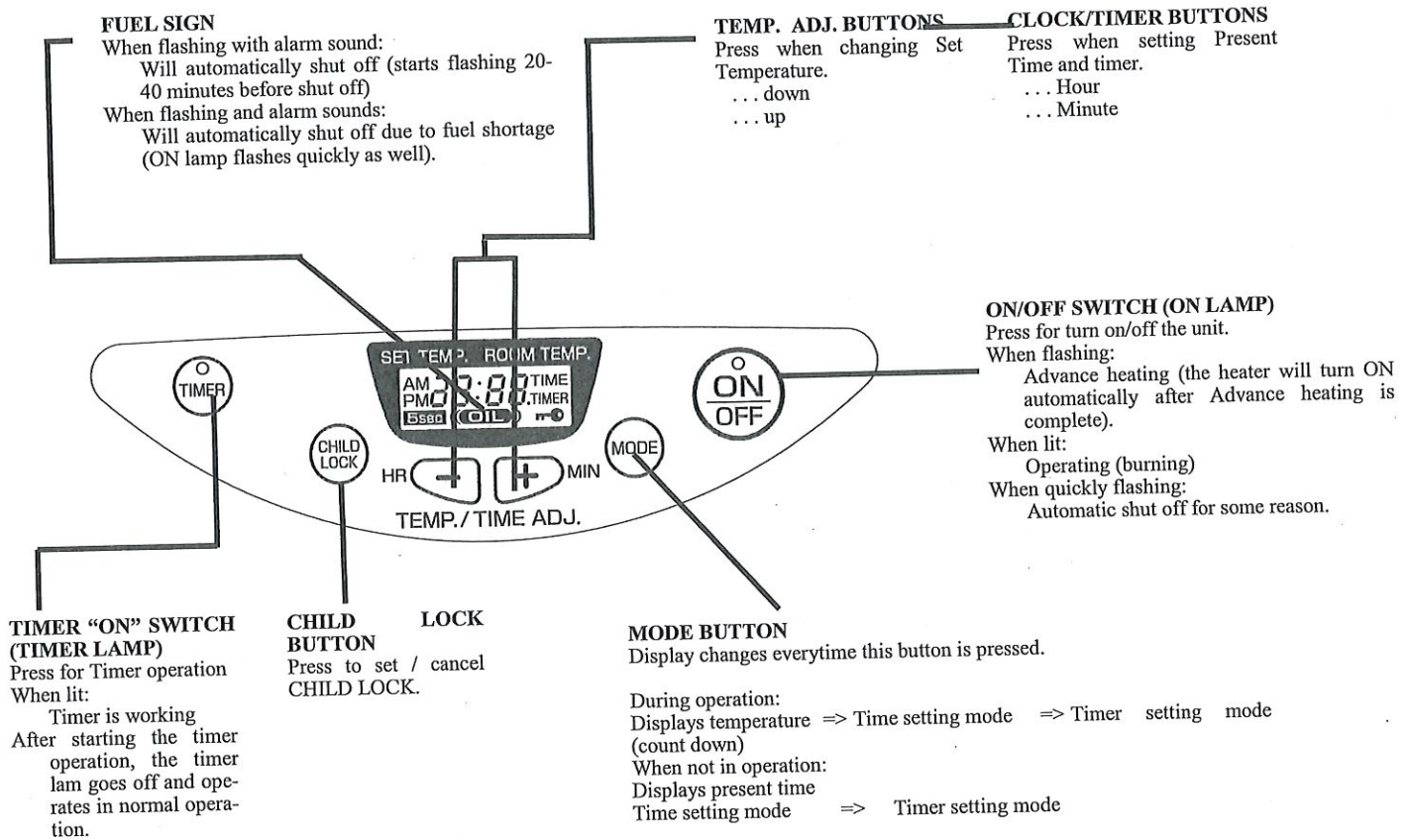
- * A good choice is a location, near or under a window, where the heater is directly in contact with fresh air .
- * Air circulation in front of the heater must not be restricted by any obstacle.
In such circumstances, the room temperature could be unstable and the Unit could overheat
Try to leave maximum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



4. NAMES AND FUNCTIONS OF OPERATING BUTTONS

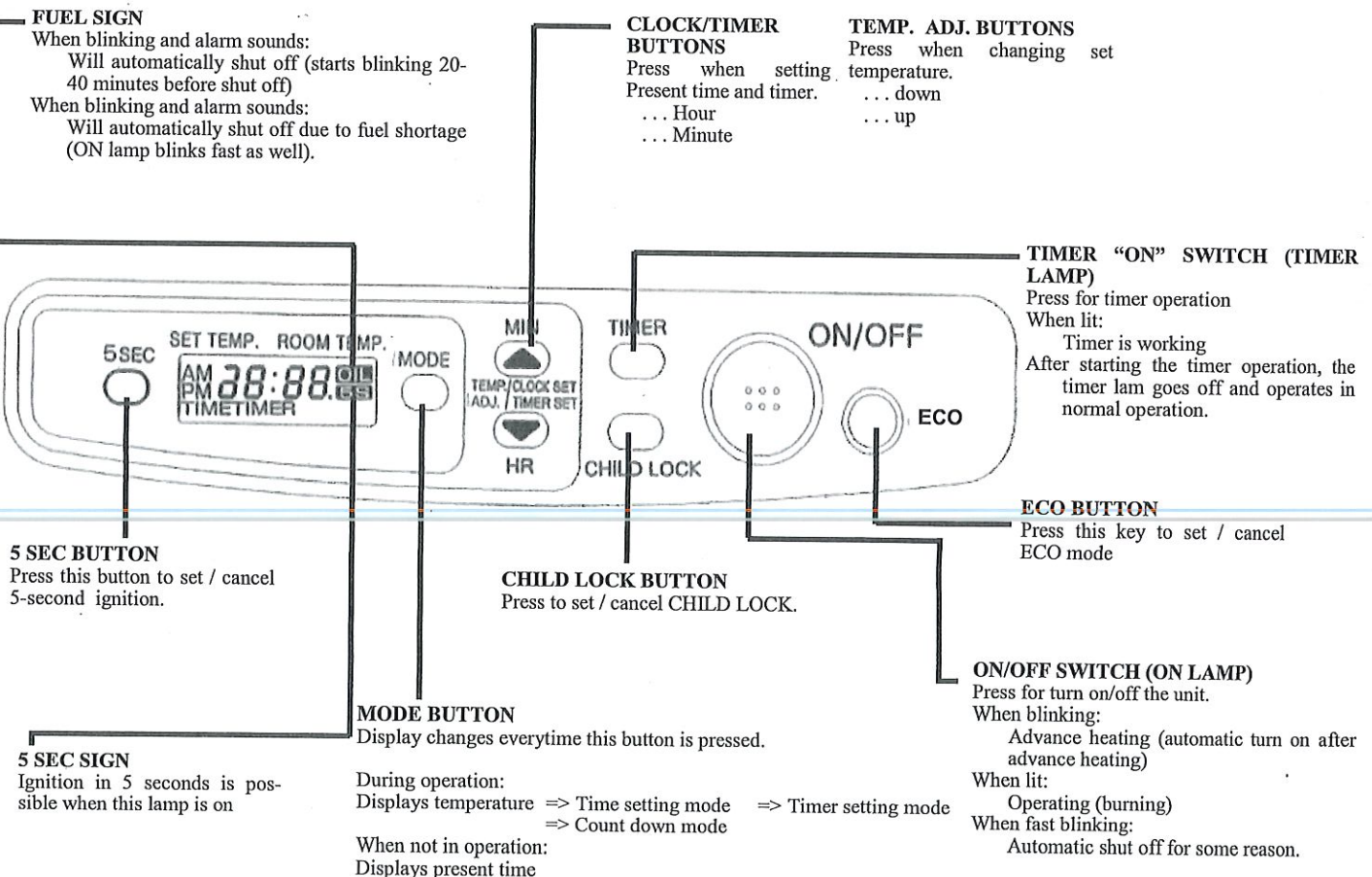
INVERTER 3026 CE

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INVERTER 6026 CE

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INVERTER 5026 CE/ 5086 UK

TIMER "ON" SWITCH (TIMER LAMP)
 Press for timer operation
 When lit:
 Timer is working
 After starting the timer operation, the timer lam goes off and operates in normal operation.

5 SEC BUTTON
 Press this button to set / cancel 5-second ignition.

FUEL SIGN
 When blinking and alarm sounds:
 Will automatically shut off (starts blinking 20-40 minutes before shut off)
 When blinking and alarm sounds:
 Will automatically shut off due to fuel shortage (ON lamp blinks fast as well).

ECO BUTTON
 Press this key to set / cancel ECO mode

CHILD LOCK BUTTON
 Press to set / cancel CHILD LOCK.

CLOCK/TIMER BUTTONS
 Press when setting Present time and timer.
 ... Hour
 ... Minute

TEMP. ADJ. BUTTONS
 Press when changing set temperature.
 ... down
 ... up

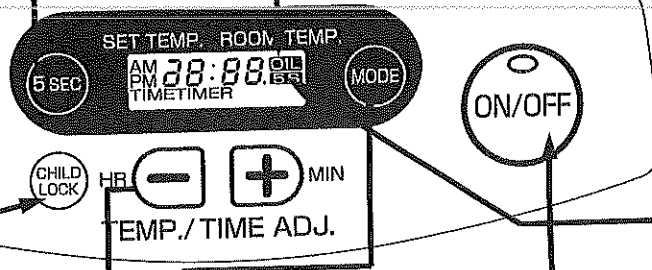
MODE BUTTON
 Display changes everytime this button is pressed.

During operation:
 Displays temperature ⇒ Time setting mode ⇒ Timer setting mode
 ⇒ Count down mode

When not in operation:
 Displays present time

5 SEC SIGN
 Ignition in 5 seconds is possible when this lamp is on

ON/OFF SWITCH (ON LAMP)
 Press for turn on/off the unit.
 When blinking:
 Advance heating (automatic turn on after advance heating)
 When lit:
 Operating (burning)
 When fast blinking:
 Automatic shut off for some reason.



5. EXAMPLES OF DISPLAY

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

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

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

Initial display

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

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

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

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

SET TEMP. ROOM TEMP.

22 18

AM 8:30
 PM 8:30
 TIME SET

6:30
 TIMER SET

OFF

CL

E9

17H

SET TEMP. ROOM TEMP.

AM

PM

5 SEC

OIL

AM 28:88 TIME

PM 28:88 TIMER

5sec (OIL)

TIME SET(HOUR)

TIMER SET(TIMER)

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.

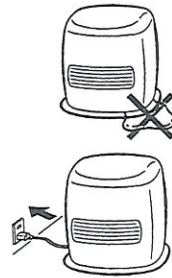
If fuel is running low...

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 sign (OIL) together with the « ON/OFF » 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 230V / 240V 50Hz).
3. Control the fuel tank every time you fill it. If you see any leak, a deformation or signs of rust, please do replace immediately your fuel tank by going to your reseller or after sales service.



7. HOW TO OPERATE THE UNIT

1) Pre-ignition preparations and check points

* **Level:**

The Unit is required to be placed in a level position. If the Unit is not level, this can result in incorrect combustion and the flame may burn high or red. If this happens auto shut-off device will be activated and the heater will automatically be shut off.

2) Set the current time

Set the current time while the heater is turned off.

Press mode button and select Time set mode.

Set current time by pressing CLOCK/TIMER buttons (HR, MIN)

* 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.

3) 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).

IMPORTANT : After ignition, your heater will function at full power during 3 minutes; the temperature will begin regulating after this 3 minutes period.

4) 5 sec ignition

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.

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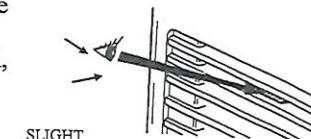
After a period without use, or on first use at the beginning of a season:

- * 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.

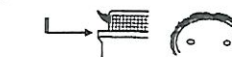
SLIGHT
YELLOW



Abnormal flame 1:

Flame shrinking. Produces noise or smell and eventually extinguishes.

SHRUNKEN FLAME



Abnormal flame 2:

Yellow flame surrounds the burner.

YELLOW



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 3 minutes after each switch on.

Power control

Depending on the room temperature and the set temperature, the unit will automatically run at a lower or a higher output power between 800w and 3200 w, so as to let the room obtain the set temperature after a certain period of time.

6) ECO mode

Press ECO button.

ECO lamp turns on.

To cancel, press ECO button again.

Note : ECO mode does not work during the first 3 minutes after each switch ON.

What is the ECO operation ?

If the temperature gets three degrees 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 even after 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) Set Timer for delayed start ?

How to set the current time

Set the current time while the heater is turned off.

Press mode button and select Time set mode.

Set current time by pressing CLOCK/TIMER buttons (HR, MIN)

- * 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 sec.
- * 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.

WARNING : Please ensure adequate ventilation

WARNING : Do not set the Timer to switch the unit on when the house is unoccupied.

* 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.

09) 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 safety reasons, your heater will shut off automatically after 59 hours of heating, depending on the maximum running time of the space 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 space heater has just started.
5 7H	The space heater has been running for about 1 hour.
1H	The space heater will switch OFF in 1-2 hour's time.
0H	The space heater will switch OFF in 1/4-1 hour's time.
OFF (BLINKING)	The space heater will switch OFF in 15 minutes.
OFF	The space heater is OFF.

Except in emergencies, never try to extinguish the burner by tilting it, 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 (due to bad ventilation or too small a room) will automatically cause the shut-off of your heater, and the display shows « EH ».

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 155 cm²)
- Do not use your heater in too small a room :
Inverter 3026 CE: 46 m³ (+/- 18 m²)
Inverter 5026 CE/ 5086UK: 49 m³ (+/- 20 m²)
Inverter 6026 CE: 61 m³ (+/- 25 m²)
- 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.
- The using of this kind of heater inside area which received public must comply to a local demand or rules. In any case you must always get information from local authorities.
- This heater must not be used by persons (including children) divested of experience or acknowledge, except when they were able to benefit thought a person responsible for their safety, for a surveillance or for preliminary instructions concerning the use of the heater.
- You must take care about children playing with the heater in to avoid any risk.



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.

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

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

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 space 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:

- * Please contact your local retailer
- * Before requesting service from your local retailer, 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 seeking help from the helpline.

	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 vaporised. 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.	This happens under the following circumstances, and is normal. <ul style="list-style-type: none"> * 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.
	There is a sound like running water while unit is burning.	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 normally wrong.
Others	Warm air outlet gets dirty.	Clean as set out under "REGULAR MAINTENANCE"

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	White smoke appears but soon goes away	A smell fills the room while the 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.		X										MAKE SURE PLUG FITS PROPERLY IN POWER OUTLET.
POWER FAILURE.		X										WAIT UNTIL POWER COMES BACK. CHECK THE FUSE OF POWER PLUG.
AUTO SHUT-OFF DEVICE HAS BEEN TRIGGERED.					X					E9		REIGNITE UNIT, CHANGE UNIT LOCATION TO A BETTER PLACE.
THE TANK IS EMPTY.		X									OIL	FILL THE FUEL TANK.
FUEL FEEDER CAP IS LOOSE.								X				FASTEN THE CAP TIGHTLY.
FUEL		X	X	X	X		X			E0 E2 E4		CHANGE TO CLEAN FUEL.
WATER AND/OR DUST IN FUEL.		X	X		X		X			E0 E2 E4 OIL		REMOVE WATER AND CLEAN FILTER.
FUEL TANK IS NOT FITTED PROPERLY.		X			X						OIL	REFIT FUEL TANK PROPERLY INTO FIXED TANK.
FUEL FILTER IS NOT FITTED.		X			X						OIL	FIT IT PROPERLY INTO FIXED TANK.
FUEL SYSTEM CONNECTIONS ARE LOOSE.					X	X		X	X			SEE YOUR LOCAL DISTRIBUTOR.
AIR FILTER IS CLOGGED.		X	X	X	X	X				E0 E2 E4		CLEAN AIR FILTER.
OVERHEAT PREVENTION DEVICE HAS	WARM AIR OUTLET IS BLOCKED.				X	X					EH	REMOVE THE OBSTRUCTION.
BEEN TRIGGERED	AIR INTAKE IS BLOCKED				X	X					EH	CLEAN AIR INTAKE AREA.
ANTI-ROOM TEMP. OVERHEATING DEVICE IS TRIGGERED.						X					EH	OPEN THE WINDOW, AND VENTILATE THE ROOM.
CHILD LOCK IS SET.		X									CL	RELEASE CHILD LOCK

SELF DIAGNOSIS

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



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.



Trouble with electrical parts:
Needs repair. Refer to your dealer.



Auto shut-off device activated.
Check around the unit, and then re-start.



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.

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 it's 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

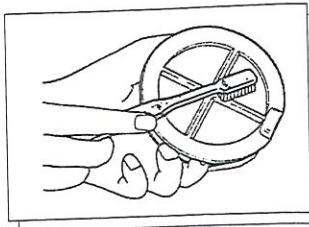
13. REGULAR MAINTENANCE

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 and user maintenance shall not be made by children without supervision.

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.

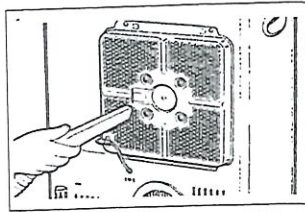
- * After washing air filter, dry well before replacing.
- * Do not run the unit without the air filter.



WARM AIR INTAKE (AT LEAST ONCE A WEEK)

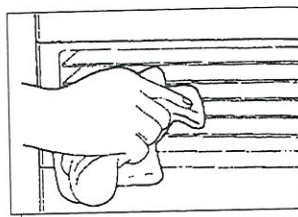
Clean with vacuum cleaner or a brush.
Do not bend or tug the room thermo sensor.

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, then 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.

3. 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. Contact YOUR LOCAL RETAILLER

15. REPLACEMENT OF THE SPARE PARTS

Only use genuine parts.

The manufacturer can not be responsible for problems caused by use of non-approved spare parts, or because of repairs undertaken by unqualified personnel. In addition to invalidating your guarantee, using non-genuine spare parts also reduces the performance of your heater, and, above all, causes accidents.

16. DISPOSING OF THIS PRODUCT

This Product and it's packaging should be disposed of responsibly check with your Retailer or Local Authority as to appropriate methods of disposal.

