DASHAN®

Strong Ventilantion Open Kerosene Heater

Instructions

Model

DS-350

Be Sure To Read Before Use

Efficient
Environmentally-friendly
Energy-saving

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Safety Notice

The purpose of this Safety Notice is for the proper and safe use of the product and the prevent of personal injury or property damage. Please be sure to follow

Meanings of some symbols

This symbol means what you can't do or what is forbidden

This symbol means what you must do or what is required

This symbol means you should cut off the power

DANGER

●use of gasoline Prohibited !

Kerosene only

WARNING

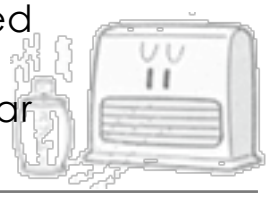
●Do not use it when an exception occur

Turn off it when going to bed or going out

WARNING

● Off the sealed container

Do not place a sealed gas container and things alike near the exit



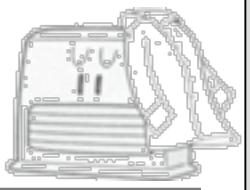
●Necessary airflow

Do not use in an enclosed room, such as the basement

1 ~ 2 times per hour, 1 ~ 2 minutes for each time .

●Avoid blocking out the outlet

Avoid blocking out the outlet with objects .



● Being Close to combustible materials is strictly prohibited

Do not use the heater near burning objects

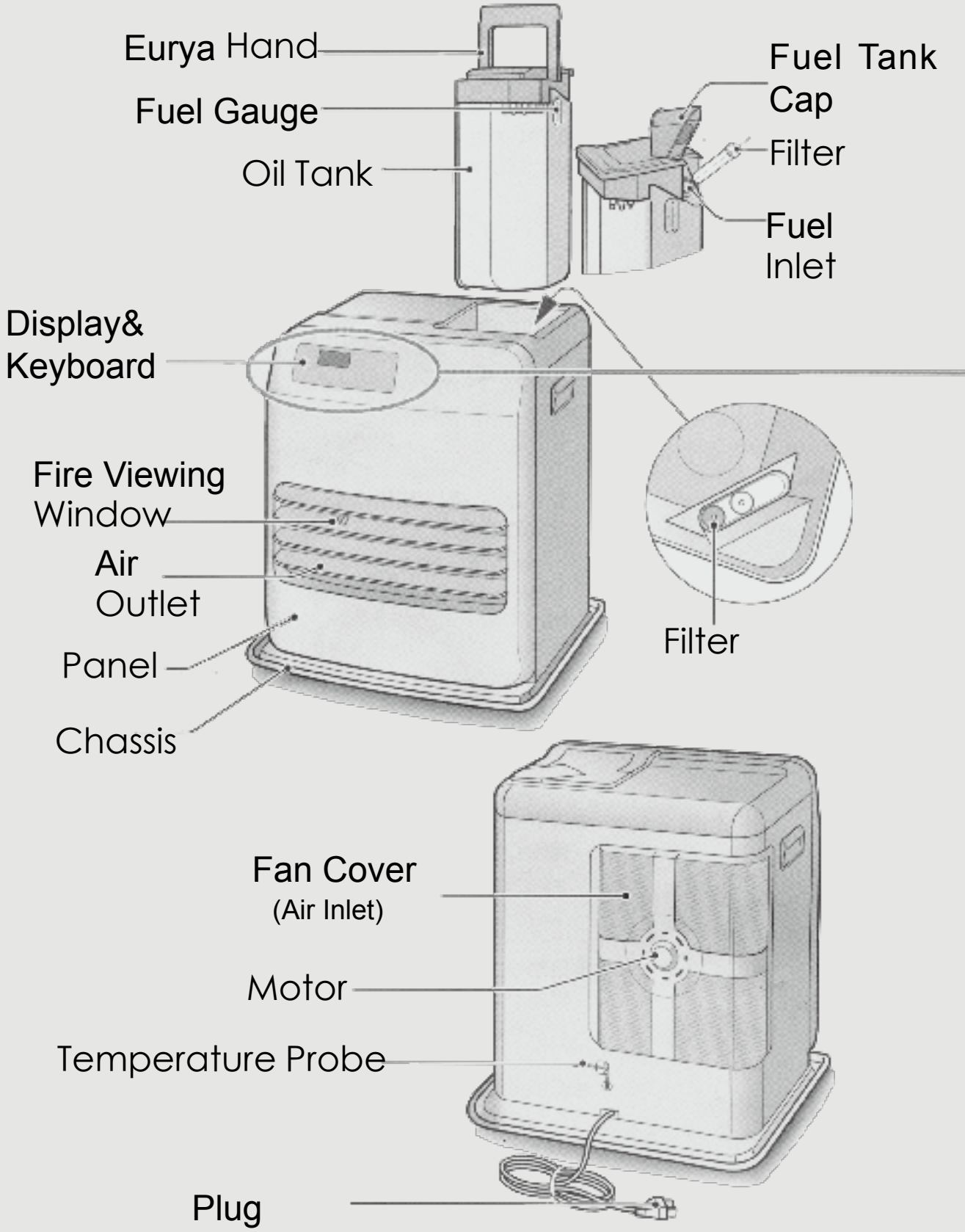
●Touching the outlet prohibited

Take care !

● Disassembling or assembling the heater without permission is prohibited . Or your heater will be damaged .

Names of its Parts

Exterior appearance



Operating parts

Setting Button \ Timer Button

Pressing this button means confirmation while in the mode of adjusting time and enters next mode of adjusting time

Pressing the button while working means the entrance in the timer setting mode

Indicator ON ------- the state of timing setting

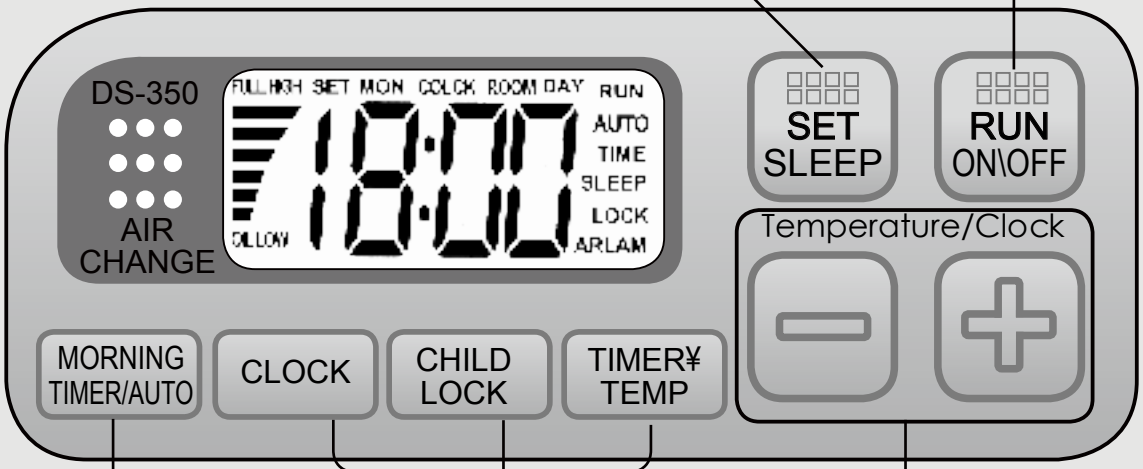
Indicator Flashes ----timing is setted

Running Button

Turning on / Turning off heater

Indicator Flashes---Firing

Indicator ON---Run Mode



Automatic timer switch per day or per week

This Function in Next Model

clock button

Long standby time by 3 seconds to enter setting mode

child lock(Working)

Pressing it for three seconds in the phase of unlocking means the failure of all buttons .

Pressing it for three seconds while in the phase of locking means the retrieval of all buttons .

Temperature SET

Temperature decrease

Temperature increase

Time SET

time decrease

time increase

Timing SET

Timing decrease

Timing increase

Shift Button

In the standby mode means the switch in time from date to week or week to date

In the working mode means the switch in Temperature to Time

Names of its Parts

Display

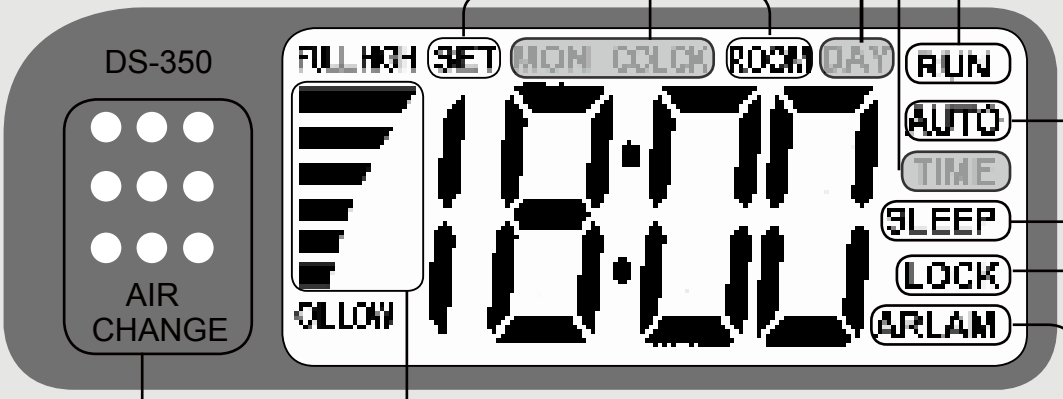
Auto
Auto------Auto Open heater

Time

M O N----------Month
D A Y----------day
C O L C K------Time

Work State
RUN--------In Working

Temperature
Set-------Set Temperature
Room----Room Temperature



Indicator of changing air

Flashes-------- should open the window and allow more air

ARLAM
ARLAM---------the heater has wrong.

locking
LOCK-------- the keyboard is locked

meter indicator
It shows the left amount of kerosene and tells the user to add more before running out

sleeping
SLEEP---------he heater is in a sleeping mode and will be off automaticallz according to the set time

LCD digital display instructions

• TIME DISPLAY Using a 24-hour time system Pressing the TIMER¥ TEMP Button you can switch back and forth the date and the week .	COLCK--Time MON---Month DAY --Day	(Sample)6:30 PM CLOLCK 18:30 TIME (Sample) June 8th MON DAY 06 08 (Sample) Monday MON
• TEMPERATURE SETTING The room temperature display ranges from 9 to 35 . Below 9 , it shows “lo” while above 35, it shows “hi ” The set temperature is marked by such symbols as [Lo] [9]~[30][Hi]	SET ROOM	(Sample)Set Temperature 22° C Room Temperature 12° C SET ROOM 22 12 RUN
• SLEEP SETTINGS Pressing the SET SLEEP whiling the heater is working , the heater is in the mode of sleep setting	SLEEP	(Sample)The heater is set to turn off ten minutes later RUN 10 SLEEP
• SLEEP OFF SHOW The set sleep reads SLOF when turning off automatically		SLOF
• Error Show The heater is equipped with self-diagnosis,the error code will display while error occurs		(Sample)No Oil Tank E01 ARLAM

PREPARATIONS

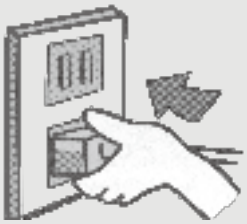
Preparation

1 Open the package and take the heater out

- The smell of kerosene when opening the package is a normal phenomenon and it is due to the combustion test . Please feel at ease to use .

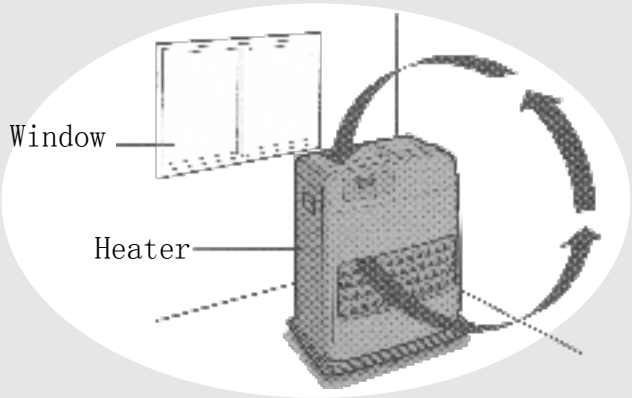
2 plug into the socket

- AC 220V~240V
- LCD screen will display the current time

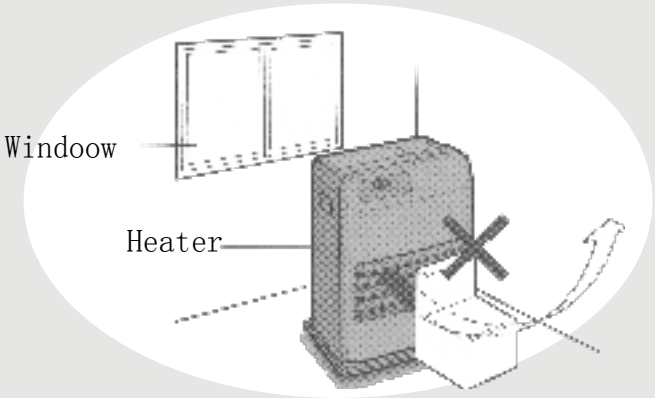


FOR BETTER EFFECTS

place the heater against the window



Please do not put out the draft articles whichwill prevent warm air circulation .

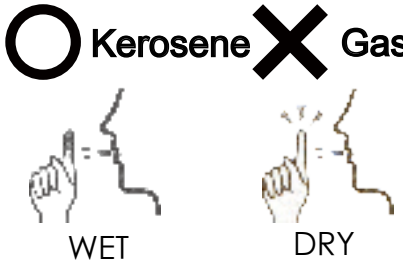


Fuels

Use pure kerosene

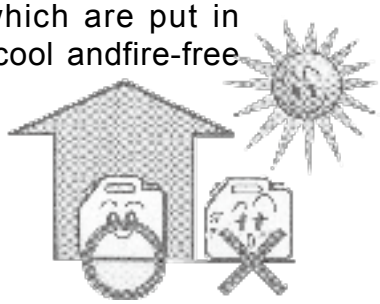
Use of gasoline Prohibited

Distinction between kerosene and gasoline



STOCK AND MANAGE KEROSENE

Kerosene should kept in special containers , which are put in a clean , dry ,cool andfire-free room and avoid direct sunshine exposure



- **Use Impure kerosene**
  The consequences of using kerosene mixed with water will lead to the failure of burning , and the heater displays error button[ER05]
- **The consequences of using gasoline will lead to fire disaster**

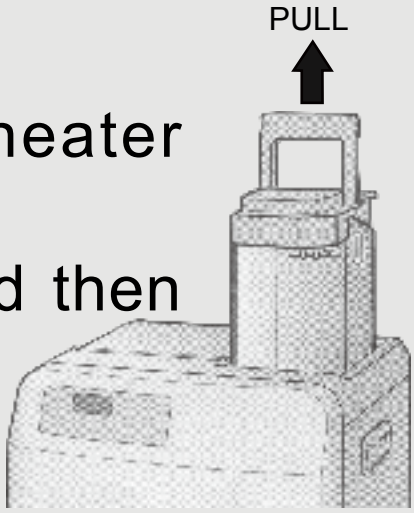
- **How to purify kerosene**
  Please pull out the oils in the tank and wash it with pure kerosene two or three times and then add pure kerosene into the tank .

PREPARATIONS

Refueling

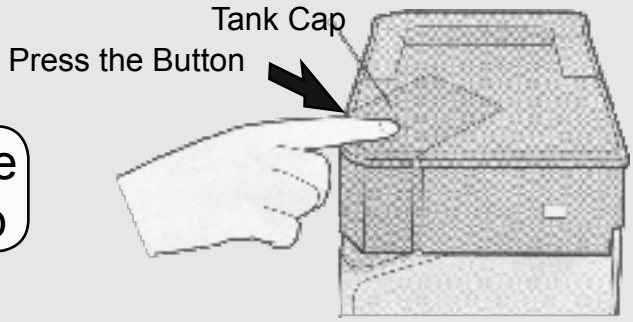
Please refuel after powering off

1 Turn it off untill the heater stops .
Turn off the power and then pull the fuel tank out .



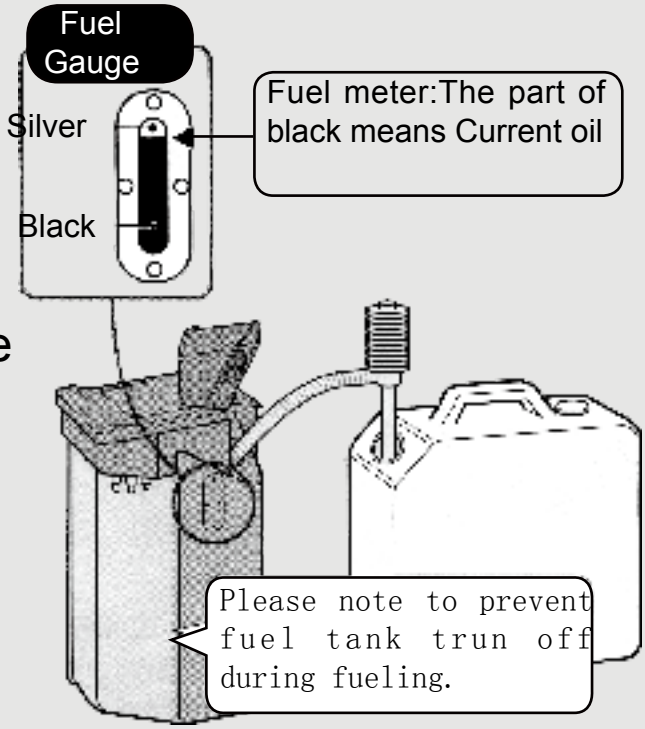
2 Open the fuel tank

Pull the fuel tank out of the heater after opening the cap



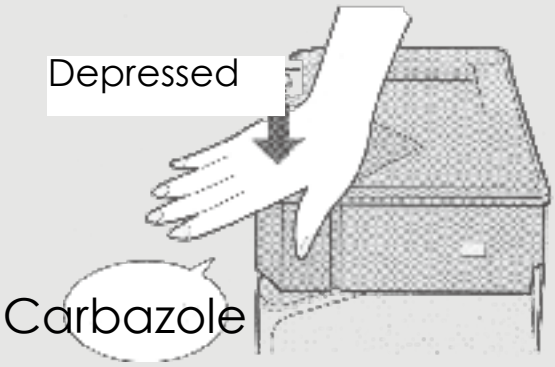
3 Fueling

- Put the fuel pump into the bottom of the oil filter



4 Close the fuel tank

- Push the fuel tank cap, until you hear a carbazole sound .



5 Put it in the heater .

- Check the bottom of the fuel tank and see if there is debris or waterdrop . Clean the tank with a piece of dry cloth .
- Put the fuel tank in the heater and be sure there is no □Er01□on the display when powering . This signal shows you havenot put the tank in or you have not made it flat .

Attention

- Do not fuel near snow , sand or rubbish because there is a sensor at the bottom of the fuel tank . If the fuel tank is covered with snow , sand or rubbish , please clear them off .
- Do not tilt the fuel tank when fueling
- After fueling , the kerosene will leak if you carry the fuel tank horizontally.

PREPARATIONS

Oil Show

Fuel state	Operation State	Left Working Hour
	Light ON Working Mode RUN ON\OFF	Above 1 hour
		About 1 hour
		Ten minutes
Flashing	Light off Standby Mode RUN ON\OFF	About 10 minutes

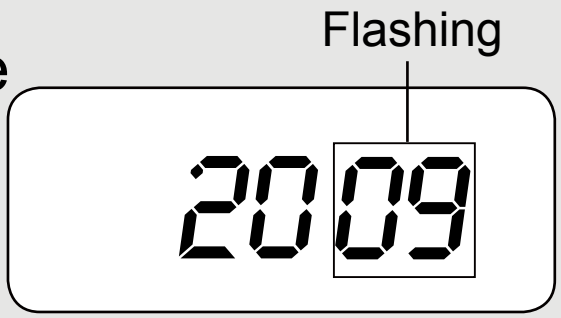
Attention

- According to the state of burning ,big fire or small fire ,the remaining oil will have a certain run-time error .
- When the oil amount is in the state of ( ),Buzzer will issue beep sound to alert users to refuel

TIME SETTING

In the Standby mode, LCD screen displays the current time . Press time\temp to switch to time in the mode of working . Generally speaking , it is not necessary to adjust the clock since the heater has an inbuilt chip clock which has been set the right time . please follow the tips if you want to adjust the clock .

1 Enter time setting mode



- Hold down CLOCK button, After 3 seconds you hear "beep" , and the LCD screen display, such as at right. Enter "Year" setting

2 Time Adjustment

- Press the "+" key to increase the time value, press the " – "key to reduce the current time value.

3 Save Time

- Press the" set" button, save the current settings, and set the next mode. But when finishing【minute】 setting, pressing the key is to exit setting mode

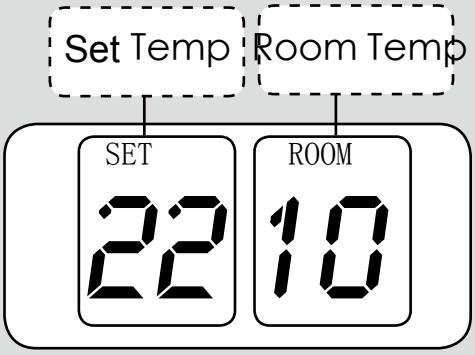
- Time-setting order: year month Date hour minute

Start to use

Start to power

1 Press

Button



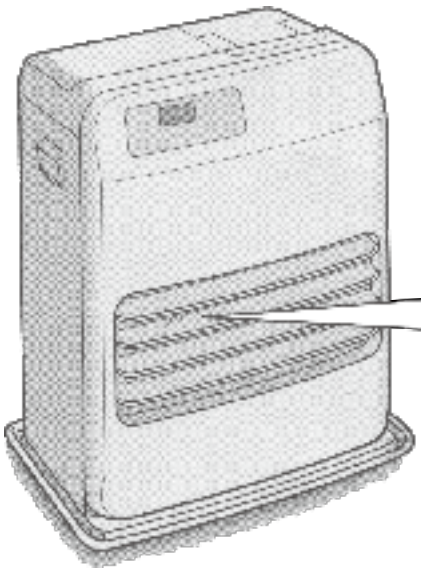
- Lights start flashing
- The Display screen shows the set temperature and room temperature .

About 3~4 minutes start fire

- A bang sound is heard , the heater begins to fire .

Attention

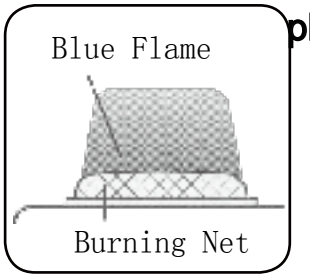
- It is a normal phenomenon When the first time use gives off smoke and odor .They are caused by rust oil and heat-resistant coatings .Please open the window for more wind and air .
- It is a normal sound when you hear Ta Ta sound
- It is a normal sound when you hear Chi Chi sound . They are from vaporization of the burning kerosene .



■Fire Condition

Check the fire from the window of observation. Please stop the heater

○ Normal



The following phenomena are normal

- The blue flame mixed with yellowones are normal .
- Yellow flame is from the burning net when the fire is small .

Temperature regulation

1 The button is for temperature

Set to your Temperature

If you press the button continousely ,the figure will change accordingly .

Setting Range(℃)

Press	LO → 9 → 10 → •••• → 30 → 31 → HI
Press	HI → 31 → 30 → •••• → 10 → 9 → LO

- The signal “Lo “ means that the heater is always in the state of small fire
- The signal “HI“ means that the heater is always in the state of big fire .

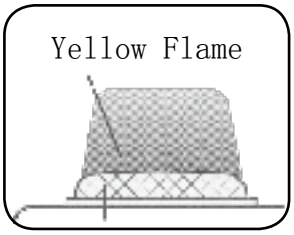
Attention

- The temperature sensors may have different shows from the room thermometer because of their different accuracy.
- Warming speeds may be different because of different room sizes and placements of the machine
- If remain in the moderate fire state after firing about 2 minutes, it has nothing to do with the room temperature

when you find abnormal combustion .

XAbnormal

Outside of the normal

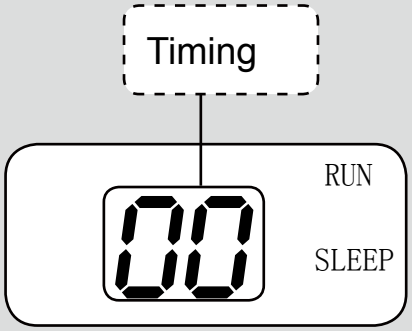


Disposal

- Ventilate
- Clear dust in air inlet, outlet, and the fuel tank filter
- If the above disposal methods can not solve the problem, please contact our Local dealers.

Start to use

Set Sleep Mode



1 Press

- SLEEP lamp is always bright
- Enter the timing mode when the Display shows [00]

2 Use button to set time

- Setting range:1 ~ 99 minutes

3 After finish setting press

- SLEEP light often twinking
- Back to the temperature setting interface
- Start Sleeping mode

4 After the setting time, the system will shut down automatically and the Display shows[SLOF], such as at right.

- Use

to back to the Time Display interface

Attention

- To enter the sleep mode only after the machine starts.
- In the sleep mode setting state, if there is no action within 5 seconds, the system will automatically return to the temperature setting Interface, and start the sleep mode

Cancel Sleep Mode

1 Press

- SLEEP lamp is always bright
- The display shows the remaining setting time

2 Use

Adjust the timing to 【00】

3 Repress

- SLEEP light always off
- Back to the temperature setting interface
- Cancel Sleep mode

Power OFF

1 Press

- Running lights off, and there is the voice 【da】
- Confirm that the fire had been extinguished from the fire window

Attention

●After the machine is turned off, the fan will run 3 minutes to cool the furnace core

To ensure the fan is running, please do not do the following actions

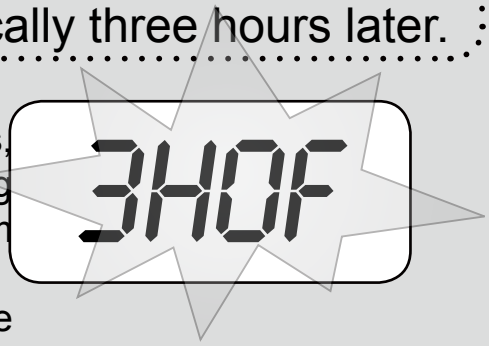
- Do not unplug the power
- Do not pull out the fuel tank
- Do not press the Run button
- If you do not use the machine a long time, please unplug the power
- Please do not switch the machine frequently. Or it will cause odor

Start to use

3 Hours Delay

In order to prevent the accident caused by forgetting turning off, the machine will turn off automatically three hours later.

1 After the machine runs 2 hours and 58 minutes, the display backlight will blink,indicating [3HOF], and there will be [drip ~ drip ~]alarm sounds, such as at right.
If no action is taken at the time, the machine will automatically turn off after 2 minutes



2 Press SET SLEEP The display shows [3HdL] and the system will continue to run 3 hours

3 Press the SET SLEEP twice the display shows [2HdL] and the system will continue to run 2 hours

4 Press SET SLEEP three times the display shows [1HdL] and the system will continue to run 1 hours

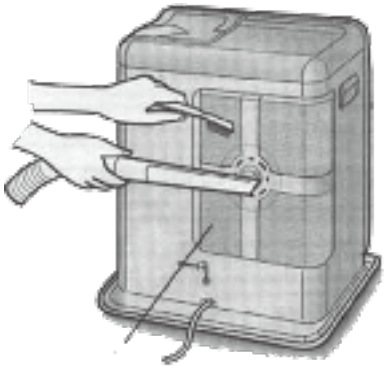
Attention : The heater will automatically turn off after working for six hours at its longest . For your heating, please re-boot .

Routine Maintenance

Once a week

● Fan cap maintenance

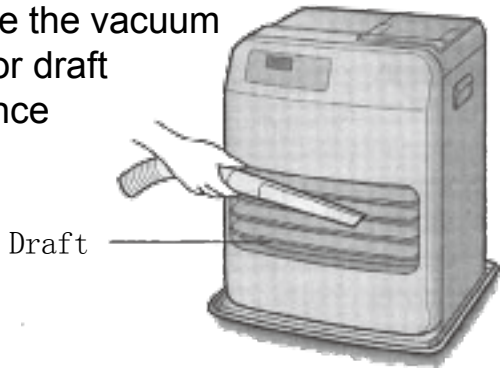
Please use the vacuum cleaner and brush to remove dust from fan cover



● Heater maintenance

By using soft, dry cloth, you can clean the fuselage .

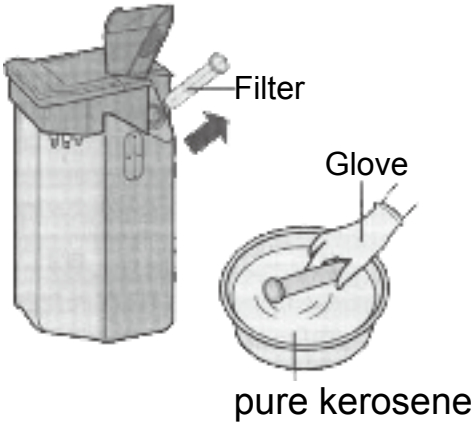
Please use the vacuum cleaner for draft maintenance



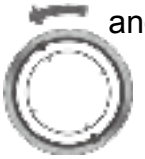
Once a Month

● Filter tank Cleaning

Check whether the filter is dirty or not , if it is dirty, clean the filter with pure kerosene.



Take out of the filter



Rotate the filter illustrated and take it out

Install the filter

Install the Filters and then rotate in the opposite direction

● Vibration switch checking

In the state of normal burning, shake around the fuselage.If you hear [ER02] false alarm and the heater automatically turn off, this indicates that the vibration switch is good

Problems checking and Electrical performance

Resolve the problems

The error code will be displayed on the screen if the heater dose not work .After the problem is resolved , reset the Run button

Display	Reason	Approach
No Display	●No power / power plug out	●Check the power plug
ER01	●No tank or not placed flatly	●Place the fuel tank again .
ER02	●The heater is tilted or hitted	● Make sure the heater is placed vertically
ER03	●Not fired after working for 5 minutes	●Check whether the ignition furnace core is heat
ER05	●Set fire fail	●Check the fuel tank if water on it or not
ER06	● Detect the flame ignition voltage when the heater is not fired .	●Please Check flame probe whether there is dirts .
ER07	●The cooling time is more than 3 minutes .	● If the chimney probe has dirts .
ER08	●Abnormal combustion of kerosene	●check whether the kerosene is pure or not.
ER09	●The chimney temperature is too high	●Check whether the room temperature probe works or not .
ER14	●The core temperature is not measured when the heater works .	●Check whether the furnace core probe works or not .
ROF	●The room temperature probe is short circuit	●Check whether the room temperature probe works or not .
ROP	●The room temperature probe opens circuit .	
KOF	●The oven temperature is short circuit	●Check whether the oven temperature works or not
FLOF	● The flame probe is short circuit .	●Check whether the flame probe is dirty or not
KSOF	●The chimney probe is short circuit	●Check whether the chimney probe is dirty or not
KSOP	The chimney probe is open circuit	

Electrical performance of DS-350ER

Specification:Forced ventilation, open-end

Category: vaporization-type ,forced convection

Fuels: lamp oil or kerosene

Fuel Consumption: 0.08~0.33L/H

Heat: 3.2 or 3.5KW

Fuel tank capacity: 5.0L

Rated Voltage AC220~240V

Frequency: 50~60Hz

Consumption power:

Igniting state:300W

Working state:28W

Made in China

SHANGHAI DASHAN INDUSTRIES CO.,LTD