

TM



STOVES

USER'S INSTRUCTIONS

BSV-01SERIES,BSV-02SERIES,BSV-03,BSV-04,
BSV-05&15, BSV-06&16, BSV-07, BSV-08, BSV-09 SERIES,
BSV-17SERIES, BSV-21, BSV-22, BSV-23, BSV-24, BSV-25,
BSV-26,BSV-701,BSV-702,BSV-703,BSV-704,BSV-801,BSV-8
02,BSV-803,BSV-804,BSV-805

PLEASE READ THIS USER'S INSTRUCTIONS CAREFULLY WHEN YOU ASSEMBLE,
INSTALL, OPERATE, AND MAINTAIN YOUR STOVES! IF ANY MORE QUESTIONS,
PLEASE CONTACT OUR DEALERS IN YOUR LOCAL PLACE.

DEALER STAMP



EN13240:2001

Manufacturer:Xuzhou Best Art&Crafts Co.,Ltd.
Second floor,South building, No.390,Fuxing South Road,
Xuzhou City,Jiangsu,221000,P.R.China



The user's instructions are suitable for Kingfire models ranged from BSV01 to BSV26, totally more than 30 models. Please see the following chart information, and select your models:

Models	Specification of cast iron	Nominal Heat output	Recommended fuels	Weight	Dimension (H*D*W)
BSV01	grey iron 18#	12 kW	Solid mineral fuels, peat briquettes, wood, multifuel	130kg	710*470*570(mm)
BSV01-2	grey iron 18#	9 kW	Same above	100kg	670*425*510(mm)
BSV01-3	grey iron 18#	7 kW	Same above	81kg	605*320*460(mm)
BSV01-4	grey iron 18#	5kW	Same above	65kg	550*310*430(mm)
BSV02	grey iron 18#	14kW	Same above	175kg	715*460*720 (mm)
BSV03	grey iron 18#	12 kW	Same above	130kg	665*455*665 (mm)
BSV04	grey iron 18#	16kW	Same above	200kg	710*535*820(mm)
BSV05	grey iron 18#	8 kW	Same above	90kg	560*440*460 (mm)
BSV06	grey iron 18#	8kW	Same above	93kg	560*440*460(mm)
BSV07	grey iron 18#	6kW	Same above	76kg	590*360*470 (mm)
BSV08	grey iron 18#	7kW	Same above	83kg	610*410*470 (mm)
BSV09	grey iron 18#	8 kW	Same above	93kg	610*460*465(mm)
BSV09-2	grey iron 18#	6kW	Same above	71kg	600*380*430 (mm)
BSV09-3	grey iron 18#	4.5kW	Same above	62kg	535*320*400(mm)
BSV15	grey iron 18#	8 kW	Same above	90kg	560*440*460 (mm)
BSV16	grey iron 18#	8 kW	Same above	93kg	560*440*460(mm)
BSV17	grey iron 18#	11kW	Same above	130kg	625*570*640(mm)
BSV17-2	grey iron 18#	8kW	Same above	90kg	550*380*545 (mm)

BSV701	grey iron 18#	8 kW	Same above	86kg	650*360*440 (mm)
BSV702	grey iron 18#	11kW	Same above	120kg	650*400*600(mm)
BSV703	grey iron 18#	14 kW	Same above	168kg	725*465*700(mm)
BSV704	grey iron 18#	10kW	Same above	115kg	682*422*476(mm)
BSV801	grey iron 18#	7kW	Same above	88kg	620*380*460 (mm)
BSV802	grey iron 18#	9kW	Same above	100kg	660*430*490 (mm)
BSV803	grey iron 18#	8 kW	Same above	95kg	635*360*480(mm)
BSV804	grey iron 18#	14kW	Same above	170kg	730*470*730 (mm)
BSV805	grey iron 18#	12Kw	Same above	130kg	680*420*580(mm)
BSV21	grey iron 18#	5kW	Same above	68 kg	630*340*440(mm)
BSV22	grey iron 18#	7 kW	Same above	80 kg	650*380*460(mm)
BSV23	grey iron 18#	7 kW	Same above	80 kg	670*380*460(mm)
BSV24	grey iron 18#	7 kW	Same above	80 kg	670*390*480(mm)
BSV25	grey iron 18#	6 kW	Same above	75 kg	680*350*480(mm)
BSV26	grey iron 18#	7 kW	Same above	80 kg	670*400*470(mm)



ASSEMBLY

Please assemble your Kingfire stove according to the following instructions:



→ Kingfire stoves come to you packaged
In a plywood crate



→ Remove the grate and take out all the components



→ Remove the protective plywood panel on the bottom of the stove.

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→ fix the legs with the set of bolts and washers, do not over tighten. (Legs are supplied packed inside the stove)



→ fit the baffle, retainer bar, and ashpan as shown.



→ fix the flue collar with set bolts and washers supplied; rear or top flue option.

Assembling your stove correctly is essential for ensuring a safe and efficient burning control. If you have any doubts, please contact local dealer where your stove was purchased.

Warning! When assembling the appliance, care should be taken to avoid the possibility of personal injury.

Any unauthorized modification of the appliance is prohibited.



INSTALLATION

It is important that all local regulations, including those referring to national and European Standards need to be complied with when installing the appliance. We are not responsible for any fault arising through incorrect installation. Always have the stove installed by a competent person and ensure its installed with accordance to your local building regulations.

UK customers should consider using a HETAS installer.

Visit www.hetas.co.uk to find a registered installer near you.

Safety Attentions

Handling

Necessary facilities must be available for loading, unloading and site handling. Minimum of 2 persons is required for handling and a sack barrow is recommended, always ensure you make the necessary precautions to avoid injury.

Fire Cement

Some types of fire cement are caustic and should not touch your skin. In case of contact, wash immediately with plenty of water.

Metal Parts

Be careful of personal injury when installing or maintaining this appliance.

Other possible injuries

The stove contains no harmful materials, but if there is a possibility of using any dangerous materials in the course of installation then please seek specialist guidance and use appropriate protective equipment.

Important Warning!

This appliance must not be installed into a chimney shared with any other heating appliance.

There must not be an extractor fan fitted in the same room as the stove as this can cause the stove to emit fumes into the room.

INSTALLATION

Chimney

The chimney must be fitted in accordance with manufacturer's instructions and Building Regulations.

The chimney height and the position of the chimney terminal should conform to Building Regulations and all local regulations, including those referring to national and European Standards.

The chimney must be in good condition, and any cracks and obstructions are not permitted. The diameter of the flue should not be less than 125mm and not more than 200mm. If any of these requirements are not met, the chimney should be lined by a suitable method. The chimney must be swept before connection to the any liner or stove. We also recommend that the chimney be swept a second time within a month of regular use after installation. Please consult your local dealer, if you have any doubts about your chimney.

As a protective measure to ensure safer use of your stove, we always recommend you use a Multifuel Liner within your chimney, if suitable.

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Flue Draught

A flue draught ranged from 1.2mm to 2.5mm water gauge may keep the appliance in good performance. If the flue draught exceeds 2.5mm, a draught stabilizer must be installed in order to control the rate of burning and prevent overfire. You should

check the flue draught when fire is on high output.

Chimney Connection

You should brick up or seal an existing fireplace opening with a register plate. A short length of flue pipe of a minimum 125mm internal diameter may then be used to connect the stove to the chimney. This flue pipe should be of 316 grade stainless steel or vitreous enamelled, nominal thickness 1.2mm. Ensure that the pipe end is no closer than 76mm to the side or rear chimney walls.

Ideally, the old fireplace should be filled in so that there is a smooth streamline entry into the flueway.

The length of any horizontal run of flue pipe must not exceed 125mm.

It is essential that all connections between the stove and chimney-flue are sealed and made airtight.

Both the chimney and flue pipe must be accessible for cleaning and if any parts of the chimney cannot be reached through the stove (with baffle removed), a soot door must be fitted in a suitable position to enable this to be done.

Water Connection (Boiler Model Only)

We recommend that the installation is carried out by a qualified heating engineer who is fully experienced in solid fuel heating installations.

These must be provided

- an expansion tank open to the atmosphere,
- an indirect cylinder,
- a gravity circulation to one radiator to dissipate heat when the pump is off,
- the fitting of a low limit thermostat to the primary return to ensure the pump does not operate when return water temperatures are less than 50°C,
- a drainage tap in the return flow.

Air Supply

A permanent, unobstructed air opening is essential for the room or space containing this appliance. The air opening should be at least 3625mm² when a draught stabilizer is equipped. Due care for air requirements will need to be taken if any other appliances are permitted to work in the same room and space.

Safety Clearances

It is workable for the appliance to be recessed in a prepared fireplace, but a suitable free air gap (minimum 150mm) must be left around the sides and top and at least 50mm at the back of the appliance to reach maximum heat output and for access to the rear of the stove. All non-combustible walls closer than 300mm to the stove should be at least 75mm thick.



In all circumstances the back wall of the fireplace recess and the hearth should be made of non-combustible material,

Allow an apron of at least 300mm at the front of the stove and 150mm on either side.

The hearth on which the stove is to be placed should not be less than 125mm thick and should be in accordance with the current building regulations.

Care should be taken to level the stove using the adjusting screws in the feet.

The appliance shall be installed on floors with an adequate load-bearing capacity. If an existing construction doesn't meet this prerequisite, suitable measures (e.g. load distributing plate) shall be taken to achieve it.

There should be no combustible material within a distance of 500mm from any surface of the stove

Commissioning and Handover

You should leave an appropriate period of time for fire cement and mortar to dry out upon completion of the installation. In order to ensure the smoke and fumes are taken from the stove up the chimney and emitted safely to atmosphere, a small fire should be lit first. Do not run the stove at full output for at least 24hours.

Finishing installation and commissioning, the operating instructions and tools for your stoves should be kept in hand. It is also important to know how to use the stove properly and use only the recommended fuels for this appliance. The user should know how to have smoke or fumes emitted properly from the stove and be warned to prevent injuries in case of the presence of children, aged or infirm persons.

Operating Instructions

WARNINGS AND IMPORTANT!

All local regulations, including those referring to national and European Standards need to be complied with when installing the appliance.

This appliance is not suitable for installation in a shared flue system.

The firebox and ashpit cover shall be kept closed except during ignition, refueling and removal of residue material to prevent fume spillage.

It is important to use this appliance correctly so as to achieve best results.

WARNING!(Boiler Model Only)

Ensure that there is enough water in the heating system.

Do not light the fire if it is suspected that any part of the water system is frozen.

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Air Controls

Warning! Parts of the appliance, especially the external surfaces, will be hot to touch when in operation and due care need to be taken, e.g. protective gloves should be given in operation.

It is essential for the appliance to have a sufficient air supply for combustion and ventilation.

Primary Air

Primary air is controlled through the assembly on the bottom of the door. This provides a conventional air draught which passes through the fuel bed. The primary air intakes can be adjusted to control the fire in combustion chamber.

Secondary Air

This appliance is fitted with an air wash system which can keep heat-resistant glass of fire door clean. This secondary air is controlled through the fittings on the top of the stove.

The air controls have two types: one is rotary air controls; the other is sliding air controls. They are operated as follows:



Bottomgrate

Two types of bottomgrate are equipped with your Kingfire stoves for your option: rotary style and grid style. For rotary style grate, you can operate it by dragging stainless steel rod forward and backward to de-ash. For grid style grate, a special hook is supplied to de-ash. It is highly recommended to de-ash regularly in case any build-up of ash will damage the cast iron fuelbed. You should be careful of hot parts of the appliance in operation.

Ashpan

You should clean up the ashpan regularly. Use the supplied appropriate tool to pull the ashpan out of the stove.



on solid mineral fuels

Please keep no more than a 30° incline of the fuel bed from front to back, when you put solid mineral fuels on the fuelbed. The height of loading fuels must not exceed the rear cast iron lining.

The refueling intervals at nominal heat output will approximately 4 hours. We suggest you refuel in time so as to get the best possible results. When using solid mineral fuels, we suggest you keep the secondary air control in the closed position, which can burn in maximum efficiency. At this time the primary air controls can adjust the burn rate of the appliance.

In order to prevent the ash from being stacked to the underside of the bottomgrate, please always de-ash before refueling. Once the ash builds up, it possibly stifles the airflow and causes the fire to die.

Important!- It is very important to empty the ashpan regularly. In case the ash build up the underside of the grate, burnout or distortion of the grate may be caused;

on wood fuels

The refueling intervals at nominal heat output will approximately 1.5 hours. You may load wood higher in the stove than solid mineral fuel but wood or logs are not permitted to touch the baffle plate.

When using solid mineral fuels, we suggest you keep the primary air control in the closed position, which can burn in maximum efficiency. At this time the secondary air controls can adjust the burn rate of the appliance.

Wood burns best with a layer of ash on fuelbed, and care should be taken to only remove surplus residue from the stove timely.

We recommend you only use dry, seasoned wood as fuels; the wood should have been cut, split and stacked for at least one year in circulating air surround to dry out. Otherwise, wet or unseasoned wood will cause tar deposits in the stove and unsatisfactory heat output will occur.

Ignition

It is better for you to have 2 or 3 small fires before operating your stove to its maximum heat output. This can help the paint to cure steadily and to give a long service life of the paint finish. During the period, there will be an unpleasant smell, you may keep all doors and windows open for your comfort, though the smell is non-toxic.™



First, load with starting fuel, i.e. paper, dry sticks or firelighters etc. Second, Light the fire at the base keeping all air controls open. Wait until the fuel reach a steady glow, then build the fire up step by step, more fuel should be added when you have a nice fire settled across the grate bed.

Warning! You need to check for blockage prior to re-lighting after a prolonged shut down period.

Shutting Down

Firstly, close the primary air controls;

Secondly, close the secondary air controls;

At last the fire will go out owing to lack of air.

If reviving the fire, the primary air controls are recommended to open first, then open the secondary air controls.

Warning! The stove is still hot in the following time after the fire has been extinguished.

Recommended Fuels

Fuels vary greatly in quality and performance. Anthracite is an approved natural smokeless fuel(not processed). Sufficient air supply and above average fuelbed temperatures are required to maintain best performance for this fuel, therefore, we suggest the fuel is used in combination with other approved manufactured smokeless fuels as per the HETAS approved list.

The following fuels are approved in closed appliance by HETAS Ltd.: Coalite Cosycoke

Coalite Nuts	Pureheat
Blazebrite	Supercoke
Homefire	Maxibrite
Homefire Ovals	Newflame
Phurnacite	Supacite
Mixed Nuts	Fireglo Ovoids
Ancit	Dragonbrite
Taybrite	Anthracite Small Nuts
Sunbrite Doubles	Wood Logs

You should only use authorized smokeless fuels in smoke control areas .

Warning! The use of the appliance as an incinerator and the uses of liquid, unsuitable and non recommended fuels are prohibited.

If any difficulties and problems on fuel, consult your local approved fuel merchant.

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HETAS Ltd.- Telephone 01242 673257- www.hetas.co.uk

Solid Fuel Association-Telephone 0800 600 000- www.solidfuel.co.uk

Safety guidance

FIRES CAN BE DANGEROUS-Do use a fireguard in the presence of children, the elderly or the infirm. The fireguard should be consistent with BS6539-Fireguards for use with solid fuel appliances.

DO NOT OVERFIRE- overfire can be dangerous. If any part of the stove glow red, it shows overfire do occur. It means the use beyond its design capacity is not allowed, and you should keep an eye on how it is burning and adjust the control accordingly;

FUME EMISSION

Emit fumes can be avoided if it is installed and operated properly, fumes usually appear from operations of de-ashing and refueling. Constant fume must be boring.

If fume emission does persist, then the following measures can be helpful:

- 1) Open doors and windows
- 2) Let the fire out, or take out of fuel form the stove safely.
- 3) Check flue chimney to prevent blockage and clean if required.
- 4) Do not try to re-light the fire before the cause has been identified and corrected.
- 5) If needed, please seek professional assistance.

Warnings! –an extractor fan is prohibited to fit in the same room as this appliance.

IN THE EVENT OF CHIMNEY FIRE

- a. Let others in the house know.
- b. Call the Fire Brigade.
- c. Close all the air controls
- d. Move furniture and rugs away from the fireplace and remove any nearby ornaments.
- e. Place fireguard or spark guard in front of the stove.
- f. Feel the chimney for signs of excessive heat.

If the wall is becoming hot, move the furniture away. Ensure that the Fire Brigade can have a command of your roof space in order to check the area for signs of spread.



MAINTENANCE

Stove body

Use a soft brush to clean the stove, cleaning must be given after it has cooled down. The finish can be renewed with proprietary stove paint

Baffle plate

Remove and clean the baffle plate once a month to avoid soot or fly ash blocking the flue ways and producing dangerous fume emission

Fireproof glass

use a proprietary glass cleaner to clean the glass when cool. You can not use any materials which may bring glass damage to clean the panel. Wet logs on heated glass, a badly aimed poker or heavy slamming of the doors could crack the glass panels and you must be very careful.

Ceramic rope

We have extra ceramic rope along with the stove. Inspect the rope around the door and glass. If rope is becoming detached, use a proprietary rope glue to reattach it. Please replace the rope in case of poor condition.

Flueway and Chimney

Keep the chimney, flueway and any connecting flue pipe swept regularly. For users

of smokeless fuels, sweep at east once a year; for wood and other fuels, at least twice a year. If the stove is fitted in place of an open fire, then the chimney should be swept one month after installation to clear any soot falls which may have occurred due to the difference in combustion between the stove and the open fire.

We suggest users buy replacement and spare parts only from our dealers in your local place.

Trouble clearing

No Fire can be burnt

Please check the following measures:

A proper fuel is being used.

The air inlet is unobstructed.

Chimneys and flueways are clear

Sufficient air supply is into the room.

No extractor fan is working in the same room as the stove.

Fire blazing out of control

Please Check:

A suitable fuel is being used.



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The doors are tightly closed.

The air controls are all in the closed position.

The primary air control flap is not wedged in the open position.

The glass retaining clips are not loose.

The door rope seals are in good condition