



ECOBURNTM
LESS FUEL • MORE HEAT • CLEANER ENVIRONMENT

Wood / Multifuel Model Range



Ecoburn 7 Multifuel

PLEASE RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE

Congratulations on your choice of an Aarrow Stove.

More than 20 years experience has been put into the development of our Ecoburn range to ensure ultimate performance and years of trouble free enjoyment.

Every detail on this stove has been carefully engineered and designed which is why we are so confident in the reliability of our product that we offer a
Lifetime Guarantee.

Should you have any questions about our Ecoburn Stoves that are not covered in this manual, please contact the Aarrow dealer in your area, or call our Technical support department on 01308 427234

© COPYRIGHT 2006

Arada Ltd

This booklet has copyright & may not be copied in whole or part or be used for any purpose other than that for which it is supplied without express written consent from Arada Limited.

CONTENTS

<u>INTRODUCTION</u>	Page	Fire Door Glass	23
Warning Notice	4	Service Record	24
Safety Notices	5	<u>OPERATING INSTRUCTIONS</u>	
The Principle Of The Fire	5	Fuel Types	25
Check List	6 - 7	Lighting The Fire	25
Technical Data	8	Solid Fuel Burning	26
<u>INSTALLATION</u>		Burning Wood	26
General Precautions	9	Mixed Fuels	26
Handling	9	Anthracite	26
Hearth	9	Overnight Burning	26
Combustible Materials	9	Air Inlet Controls - Primary Air	27
Air For Combustion	9	Air Inlet Controls - Airwash	27
Fitting the Flue Outlet & Hotplate	10	Fuel Retainer Bars	27
Flues & Chimneys	10 - 13	Multi-Purpose Operating Tool	28
Adjusting the Self Levelling Feet	14	Setting The Grate	28
Wood Only Version	14	De-Ashing (Riddle)	28
Multifuel Version	15	Empty The Ashpan	28
Firebox Liner Panels	16	Ash Removal	28
Optional Add In Boilers	17	Adjusting Air Inlet Controls	28
Water Connections	17 - 18	Main Fire Door Handle	29
Final Check List	19	Over-Firing	29
<u>SERVICING & MAINTENANCE</u>		Extended Burning	29
Cleaning - Internal Surfaces	20	OPTIONAL EXTRA ACCESSORIES	30
Cleaning - Outer Finish	20	SPARE PARTS LIST	31 - 33
Chimney Sweeping	20	GUARANTEE	34 - 35
Annual Maintenance	21	FINAL FACTORY CHECKLIST	36
Summer Storage / Non Usage	21		
Door Adjustment	21		
Dissassemble Airwash	22		
Fuel Retaining Bars - Inspection	22		

WARNING

TO ALL MULTIFUEL USERS

PETROLEUM COKE

SOME OF WHOSE BRAND NAMES ARE

"CALCO", "PETROCOKE" OR "WONDERCO"

MUST NOT BE BURNED IN THIS APPLIANCE

TO USE THESE FUELS WILL INVALIDATE THE
APPLIANCE GUARANTEE

**IF IN DOUBT CONTACT THE SOLID FUEL ASSOCIATION
TELEPHONE NUMBER 0800 600 000**

www.solidfuel.co.uk

**THE USE OF SPARE PARTS OTHER THAN THOSE SUPPLIED
BY AARROW FIRES WILL INVALIDATE THE
APPLIANCE GUARANTEE.**

SAFETY

A fireguard conforming to BS 8423: 2002 should be used in the presence of children and old/or infirm people. If the appliance is used with the fire door open, a spark guard conforming to BS 3248 should be fitted.

Caution -

Do not use aerosol sprays or any other flammable materials near the appliance under fire.

Do not fit an extractor fan in the same room as the appliance.

Fire cement is caustic, hand and eye protection should always be worn, prolonged contact with the skin should be avoided.

Aarrow Fires Ltd will not be responsible for any consequential or incidental loss or injury however caused.

Before continuing any further with the installation of this appliance please read the following guide to manual handling.

- Always obtain assistance when lifting the appliance.
- When lifting always keep your back straight. Bend your legs not your back.
- Avoid twisting at the waist. It is better to reposition your feet.
- Avoid upper body/top heavy bending. Do not lean forwards or sideways when handling the fire.
- Always grip with the palms of your hands. Do not use fingertips for support.
- Always keep the stove as close to the body as possible. This will minimise the cantilever action.
- Use gloves to provide additional grip.

THE PRINCIPLE OF THE FIRE

Your Aarrow stove is built to the highest standard of craftsmanship using the best materials and the most modern equipment available. It is a highly efficient and sophisticated piece of machinery and when properly installed and operated it should provide a lifetime of heating satisfaction.

Safety is the most important consideration when installing your fire. If not properly installed and operated a house fire may result. Installation must comply with the Building Regulations and conform to all relevant fire safety standards.

Aarrow Fires produce a variety of appliances ranging from units, which are traditional in style to stoves which are modern in appearance, all bristling with "High Tech" features.

Model types include simple room heaters, convectors, integral boiler models and inset units. Your Aarrow Stove, is constructed from either single or twin wall steel strengthened where necessary. Cast iron is used where appropriate for decorative features.

All fire doors are fitted with special high temperature ceramic glass panels through which the fire can be viewed.

Multifuel stoves are fitted with a cast iron grate to give full multifuel facility and positive de-ashing.

All models except integral boiler models are lined with firebricks or heat reflective panels which ensure complete combustion and provide a good heat store to even out fluctuations in burning.






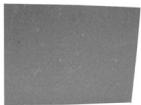
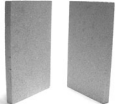
An internal throat plate produces turbulence to encourage secondary combustion and directs the flue gas around the whole upper firebox before allowing it to escape up the chimney.

On multifuel appliances the primary air for burning enters the ash pit chamber beneath the grate, controlled by the air inlet mechanism.









Aarrow stoves are also fitted with an "air wash" so called because it provides a curtain of high speed preheated air behind the glass to help keep it clean and to provide secondary air/over draught.

The provision of two inlets on all multifuel stoves gives a wide range of primary air/secondary air, under draught/over draught combinations. The optimum settings will only be established by experience in firing the appliance, and will depend on type of fuel, the position of the appliance in the house, condition of chimney etc.

CHECK LIST

Part Description & Visual Aid (not to scale)	ECB 5 Wood	ECB 5 Multifuel	ECB 7 Wood	ECB 7 Multifuel	ECB 9 Wood	ECB 9 Multifuel	ECB 11 Wood	ECB 11 Multifuel
1. Grate bars 	N/A	5	N/A	7	N/A	9	N/A	11
2. Wood burning tray 	1	N/A	1	N/A	1	N/A	1	N/A
3. Stainless Steel Throat plate 	1	1	1	1	1	1	1	1
4. Flue spigot 	1 (4")	1 (4")	1 (5")	1 (5")	1 (5")	1 (5")	1 (6")	1 (6")
5. Hotplate 	1 (4")	1(4")	1(5")	1(5")	1 (5")	1(5")	1(6")	1(6")
6. Rear liner (s) 	1	1	2	2	2	2	2	2
7. Side liners 	2	2	2	2	2	2	2	2

CHECK LIST

Part Description & Visual Aid (not to scale)	ECB 5 Wood	ECB 5 Multifuel	ECB 7 Wood	ECB 7 Multifuel	ECB 9 Wood	ECB 9 Multifuel	ECB 11 Wood	ECB 11 Multifuel
8. Rear grate bar support 	N/A	1	N/A	1	N/A	1	N/A	1
9. Comb assembly consisting of comb & comb extension bar 	N/A	1	N/A	1	N/A	1	N/A	1
10. Fuel retainers 	2	2	2	2	2	2	2	2
11. Fire door handle - Nickel Plated 	1	1	1	1	1	1	1	1
12. Stainless steel Ashpan & Cover 	1	1	1	1	1	1	1	1
13. Operating tool 	1	1	1	1	1	1	1	1
14. Instruction Manual 	1	1	1	1	1	1	1	1
15. Stove Mitten 	1	1	1	1	1	1	1	1

TECHNICAL DATA

TECHNICAL DATA	ECB 5 Wood	ECB 5 Multifuel	ECB 7 Wood	ECB 7 Multifuel	ECB 9 Wood	ECB 9 Multifuel	ECB 11 Wood	ECB 11 Multifuel
Room Min/Max Room Heater Only Output (kW)	1 - 5	1 - 5	1 - 7	1 - 7	2 - 9	2 - 9	2.5 - 11	2.5 - 11
Room Heater with Domestic Hot Water with add in boiler type	0	0	8	8	9	9	10	10
Max Output to Room (kW)	3	3	4.8	4.8	6.7	6.7	7.6	7.6
Max Output to Water (kW)	2	2	2.2	2.2	2.3	2.3	3.4	3.4
Height (mm)	522	522	558	558	600	600	605	605
Width (mm)	397	397	476	476	586	586	672	672
Depth (mm) *	388	388	386	386	396	396	442	442
Height to Centre of Rear Flue	424	424	449	449	485	485	478.5	478.5
Depth from Back to Centre of Flue (mm)	94	94	109	109	102.5	102.5	141	141
Flue Diameter	102mm (4")	102mm (4")	127mm (5")	127mm (5")	127mm (5")	127mm (5")	152mm (6")	152mm (6")
Weight Packed (Kg)	54	57	64	68	74	79	95	106

*Measured from rear of canopy to the tip of the handle.

The model and Serial Number of your stove can be found stamped into the casing, centrally just below the bottom edge of the fire door aperture.

GENERAL PRECAUTIONS

Note - All installations must conform to the appropriate building regulations.

The Building Regulations for England and Wales 2000 ref Approved Document J 2002 edition (issued by the DTLR).

The Building Standards (Scotland) (Consolidation) Regulations.

Detailed recommendations for installation of appliances, chimneys and flues are outlined in the current issue of the following British Standards:- BS6461, BS8303 and BS4543.

Any Manufacturer's Instructions must not be taken as overriding statutory requirements.

During installation ensure that adequate precautions are taken to avoid unnecessary risk to yourself or any householder. In particular the danger from the caustic nature of the fire cement should be avoided by using these accepted methods:

- Wear gloves when handling fire cement.
- Wear goggles when chiselling or looking up chimneys.

Make sure that Building Regulations are adhered to during installation along with any local by-laws. In the case of heating systems make sure that the pipe work is correctly bonded to ensure electrical earthing.

HANDLING

By the time you read this you will appreciate the weight of the appliance. The Safety and handling guidelines as set out on page 5 of this manual should be followed.

To make movement easier internal fittings, fuel retainers, grates, firebox liners, flue outlets, hot plate, throat plate, etc., can be removed.

Care should be taken to make sure that the hinges are not damaged during installation.

HEARTH

The stove should be installed to stand on a constructional hearth of non-combustible materials not less than 125mm (5") thick conforming to Building Regulations. Dimensions of the hearth should project at least 300mm (12") forward of the front of the appliance and 150mm (6") at the sides. The surface of the hearth should be free of combustible materials. In most buildings with solid concrete floors the requirement will be met by the floor itself, but mark the perimeter of the hearth to ensure floor coverings are kept well away or use different levels to mark the hearth perimeter.

COMBUSTIBLE MATERIALS

A gap of at least 450mm (18") should be allowed between the appliance and any combustible materials including furnishings. Adjacent walls should be of suitable non-combustible construction, preferably brickwork. In large fireplaces take care that any supporting beam is protected by a 13mm (0.5") sheet of Masterboard/Supalux spaced 13mm (0.5") off the surface with strips of non-combustible material - not wood.

Make sure that there is a gap between an uninsulated flue system and any combustible material. This gap must be at least 3 x the outside diameter of the flue pipe, or 1.5 x the flue diameter to non combustible surfaces. see illustration p13.

AIR FOR COMBUSTION

There must always be a permanent means of providing air for combustion into the room in which the fire is installed. A permanent vent with a total free area of at least 550mm² for every kW rated output above 5kw should be connected directly to the outside air or to an adjacent room which itself has a permanent vent of the same size direct to the outside air. The fitting of an extractor fan to either of these rooms is not recommended.

INSTALLATION

FITTING THE FLUE OUTLET AND HOT PLATE

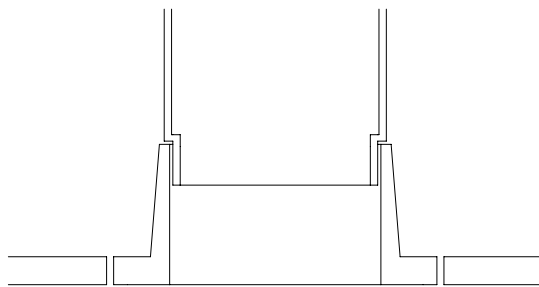
The flue outlet spigot is found packed inside the appliance. The hot plate (blanking plate) is supplied fitted to the top opening and is removed by turning clockwise (as is the flue outlet).

Smear a very thin layer of fire cement on the faces of the flue outlet and the blanking plate. Fit the outlet to the appliance in the desired position .

Lock into place by rotating anti-clockwise and tighten by tapping with a block of wood and mallet from the inside of the appliance. Similarly, fit the blanking plate to the unused opening. Clean off any surplus fire cement.

Place appliance on the hearth and make sure that it is level and does not rock. The Solution range of stoves are fitted with adjustment cam on both rear legs, see page 14 for details.

Connect the chimney ensuring all joints are sealed with fire cement.



*NOTE
THE FLUE PIPE MUST BE FITTED INSIDE THE OUTLET SPIGOT
FAILURE TO DO SO COULD RESULT IN THE SPILLAGE OF
CONDENSATION ECT. RUNNING DOWN THE FLUE.

Fig. 1. Flue and Spigot Fitting

FLUES AND CHIMNEYS

Please remember that chimney draught is dependent on four main factors:

- Flue gas temperature.
- Flue height.
- Flue size.
- Flue terminal.

The stove must be connected to a suitable and efficient flue that provides a good up draught to safely take the products of combustion (fumes) from the stove outlet to the outside air. To ensure a good up draught it is important that the flue gases are kept warm and that the flue size suits the stove.

The termination of the outlet at the top of the flue also needs to comply with the Building Regulations. The minimum effective height of the flue must be at least 4.5 metres from the top of the stove to the top of the flue outlet. When warm the flue draught should be between 0.1 and 0.2 mb.

A chimney may comply with the regulations but still be subject to down draught and similar problems. A chimney terminating above the ridge level is generally less likely to suffer such problems.

If a new chimney is being provided it should fully comply with the relevant Building Regulations that specify the requirements for solid fuel burning installations. Suitable types of chimney include the following.

Masonry chimney built with clay or concrete liners, or a chimney block system meeting Building Regulations. These types of chimney should be installed in accordance with the Building Regulations and BS 6461: Part 1.

Factory made insulated chimney complying with BS 4543: Part 2 (often called "Class 1 prefabricated metal chimney"). These types of chimney should be installed in accordance with the Building Regulations and BS 7566: Parts 1 to 4.

Due to the gradual introduction of European Chimney Standards chimneys will be specified according to their performance designation as defined in BS EN 1443 that covers the General Requirements for chimneys. The minimum performance designation required for use with solid fuel burning stoves is T450 N2 S D3.

The flue and chimney installation must be carefully checked by a competent person before fitting the stove to ensure it is suitable and will work safely.

If the chimney is old (i.e. built of brick or stone without a liner) or being opened up for reuse additional checks and smoke testing as described in Appendix E of the Approved Document J 2002 Edition should also be carried out to ensure the flue and chimney are in good operating condition.

Unless the existing flue is in good condition with suitable access for collection and removal of debris. If the flue size is more than 225mm (9 inches) diameter or 200 x 200mm square, a suitable lining of 150mm (6 inches) diameter should be fitted, or if the flue length is over 5.5 metres one size larger than the appliance outlet should be fitted. This should be a double skin stainless steel flexible flue liner that is independently certified for use with solid fuel. Details of suitable linings for use with solid fuel are given in the Official HETAS guide that can be viewed on their website at www.hetas.co.uk

It is also important that suitable flue pipe complying with the Building Regulations is used to connect the stove to the flue in the chimney and that suitable access is provided into the flue for regular inspection and sweeping of the flueways.

The installer should comply with the Building Regulation requirements in respect of providing a Notice Plate giving details on the chimney, flue lining, hearth and fireplace installation. Approved Document J of the Building Regulations for England and Wales is available from The Stationery Book shops and can also be viewed at the ODPM website at www.safety.odpm.gov.uk/bregs/brads.htm

Details on the relevant Building Regulations and BS British Standards are given in the "General

Precautions" section page 9 of these instructions.

A chimney may comply with the regulations but still be subject to down draught and similar problems. A chimney terminating above the ridge level is generally less likely to suffer such problems.

Chimneys should be as straight as possible. Horizontal runs should be avoided except where the rear outlet of the appliance is used, in which case the horizontal section should not exceed 150mm (6") in length.

If the fire appears to be working hard but produces very little output to the room it is likely that excessive draw is present in the chimney, and that heat is being sucked out of the appliance and up the chimney. If this is the case we recommend the fitting of a draught stabiliser in preference to a flue damper, in the interest of safety and efficiency.

We do not recommend the use of a damper when burning solid fuel.

FOR ALL APPLIANCES

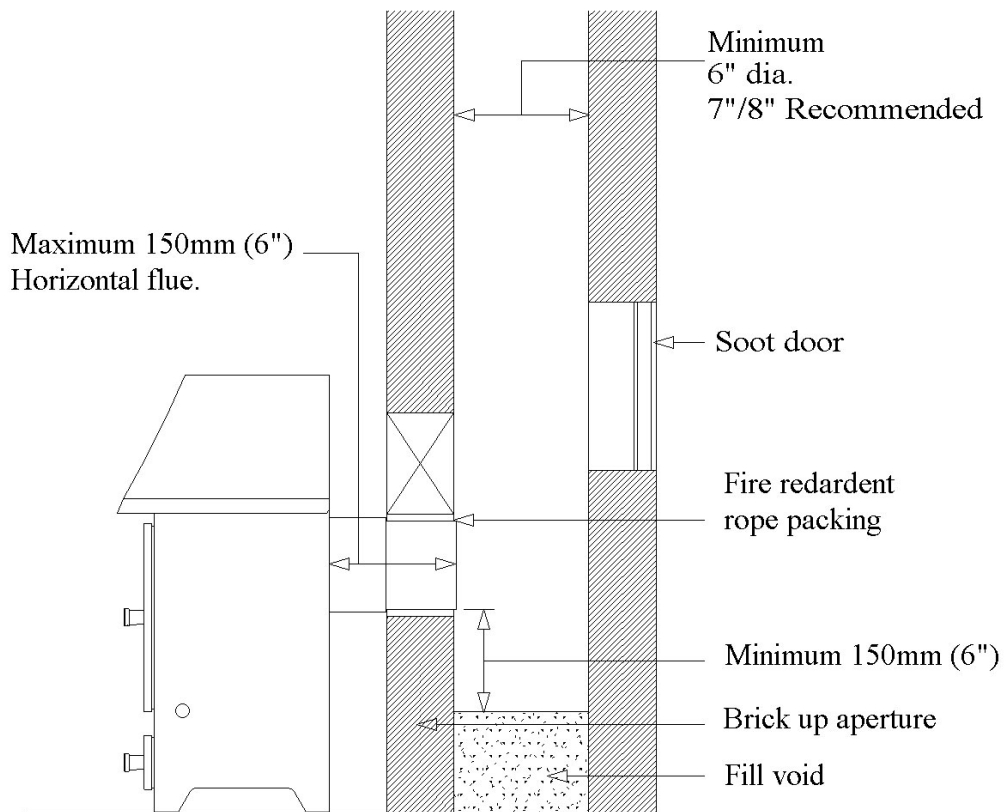
Access for cleaning the flue should be incorporated in the system other than through the appliance (e.g. a soot door or access through register plate). Purpose-made soot doors and inspection lengths are available from manufacturers of all systems.

Ensure that the whole length of the flue can be reached from the soot door.

Note: if the appliance is fitted with a draught stabiliser or if one is fitted to the flue pipe or chimney in the same room as the appliance, then the permanent air entry opening (or openings) should be increased by 300mm² for each kW of rated output.

For advice on flues and chimneys contact;
NACE (National Association of Chimney Engineer): telephone 0800 0924019
www.nace.org.uk
or
NACS (National Association of Chimney Sweeps): telephone 01785 811732
www.chimneyworks.co.uk

INSTALLATION

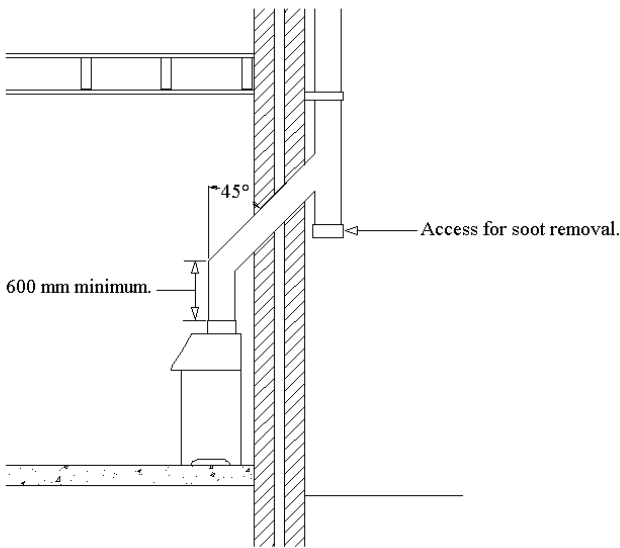
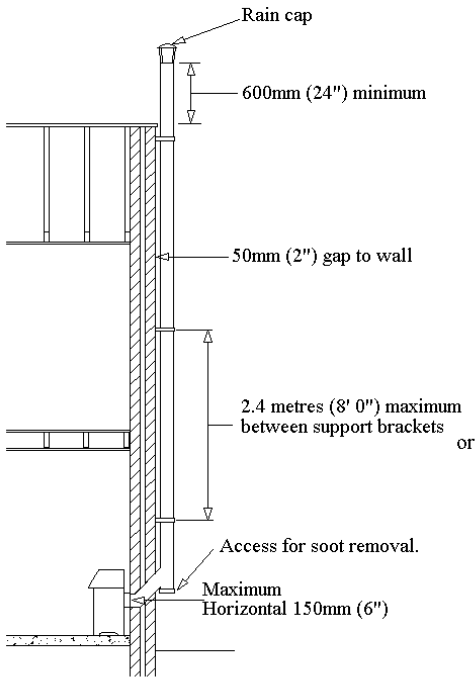


REAR FLUE OUTLET

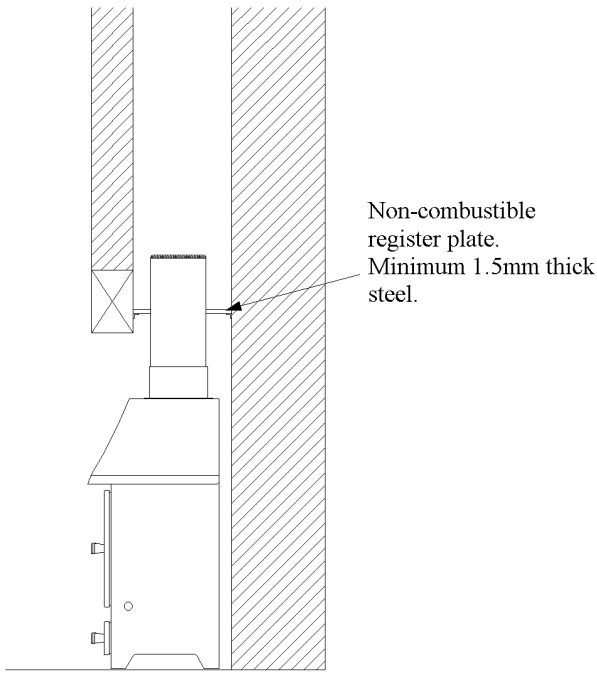
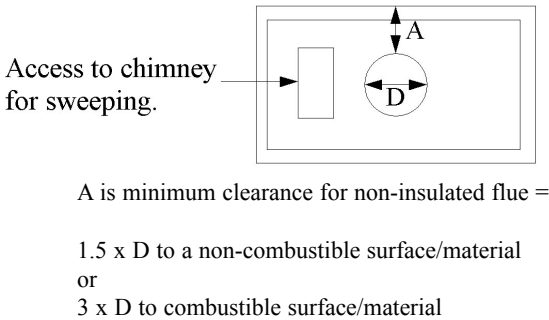
Fig. 2. A Typical Rear Flue Layout

TYPICAL METAL INSULATED CHIMNEY SYSTEM

TO BE INSTALLED TO THE CHIMNEY MANUFACTURERS INSTRUCTIONS IN COMPLIANCE WITH BUILDING REGULATIONS AND BS7566 Pts 1-4



PLAN VIEW OF REGISTER PLATE AND CLEARANCES FOR NON INSULATED FLUES



TOP FLUE OUTLET

Fig. 3. A Typical Top Flue Layout

INSTALLATION

ADJUSTING THE SELF LEVELLING FEET

The Aarrow Ecoburn Wood and Multifuel stoves are equipped with adjustable rear levelling feet, these are ideal for use where the hearth surface is not flat or level.

Adjustment is as follows:

- Position the stove on the hearth into its final resting place, ensuring room for the flue connections etc.
- On the rear leg of the stove, loosen the pozi screw, and rotate the inner 'cam' shaped levelling foot until this touches the hearth. (See Fig. 4).
- Re-tighten the pozi screw. Check the stove is level with a spirit level.
- Repeat for the other rear leg.



Fig. 4. Adjusting the rear feet

WOOD STOVE VERSION - WOOD TRAY

The wood burning tray should come fitted in your stove, if not please follow these instructions -

- Fully open the fire door, and remove the two round fuel retaining bars,
- Locate the front of the wood tray, this is the end with no tabs protruding from each side, opposite to the rear end with the tabs protruding either side. (See Fig. 5.)
- Holding the front edge of the wood tray, carefully insert the wood tray into the firebox, taking care not to damage the paint work and side / rear liner panels.
- Engage the rear lugs into the slots at the rear of the side landings. Then lower the front of the tray until this rests onto the front brace of the stove. (See Fig. 6.)



Fig. 5. Wood tray identification



Fig. 6. Wood Tray Installed

MULTIFUEL STOVE VERSION- MULTIFUEL GRATE

GRATE

The grates in the Aarrow Ecoburn multifuel units comprise a series of reciprocating cast iron bars seated on a pivoted "comb". All bars in the grate are identical, but every other bar is turned through 180 degrees, with the ends of the bars marked "H" sitting on the high sections of the comb, and the ends marked "L" sitting on the low sections.

ASSEMBLING THE GRATE

To assemble the grate, fit bars to low sections of the grate first, inserting end marked "H" into rear channel with groove on underside of bar located on upstand tab, and then lowering end marked "L" onto the low section of the comb, see fig. 7. The upper bar is fitted in a similar manner, but with the end marked "L" inserted in the rear channel, and the end marked "H" seated on the high section of the comb. See fig. 8. for the assembled grate layout.

GRATE BAR REPLACEMENT

After extended use it may be necessary to replace some of the grate bars. Periodic inspection of the bars is recommended and the removal of any nails or wire that may be present after burning wood. All the grate bars in each appliance are identical and can easily be lifted out after removal of the fuel retainers. Remove damaged grate bars and replace with casting of the same type, fitting as per instruction above. When re-ordering replacement grate bars, see page 31 of these instructions for the correct spare part code.

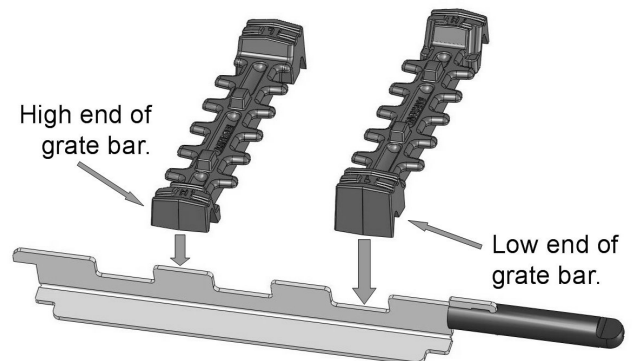


Fig. 7. Fitting the grate bars

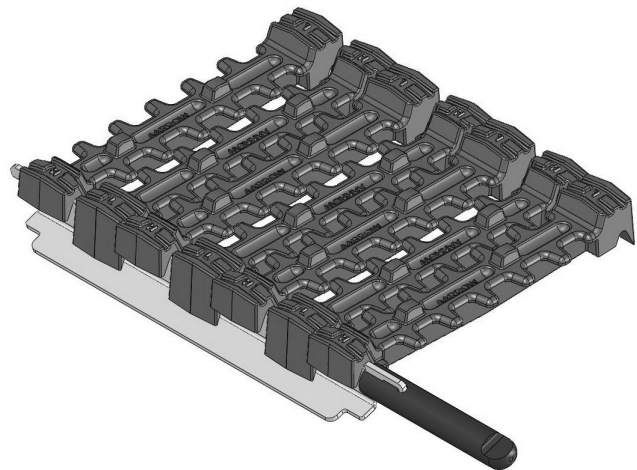


Fig. 8. Assembled grate

INSTALLATION

FIREBOX LINER PANELS

The Arrow Ecoburn Wood and Multifuel stoves use firebox liner panels to the sides and back of the firebox. The throat plate sits on top of the side and rear panels. These should come fitted to your stove, if however they are not proceed as follows to fit them as follows -

- Open the fire door.
- Remove the two round front fuel retaining bars, by lifting one end free of the bracket and sliding the remaining end out from the bracket.
- Set the small liner(s) into the back of the fire.
- Insert side liner panels. (See Fig. 10).
- Fit the throat plate with the single bend and two cut outs to the front facing up. The projecting lugs sit on top of the side liners. The long centre tab on the back edge rests on the rear liners. The shorter turn-down tabs against the vertical face. (See Fig. 11 & 12).
- Replace the front fuel retainer bars.

Note: Neither the rear firebox liners nor the side firebox liners are "handed", both faces are suitable for direct contact with the fire.

Note: Cracking of lining panels does not effect efficiency.

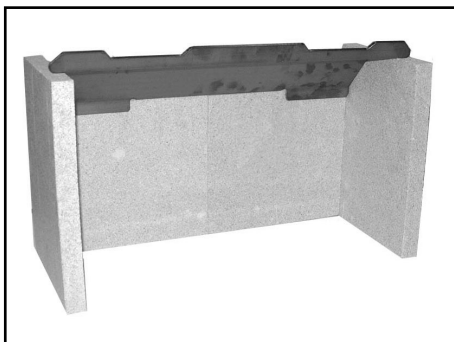


Fig. 9. Overall View Of Liners & Throat Plate.

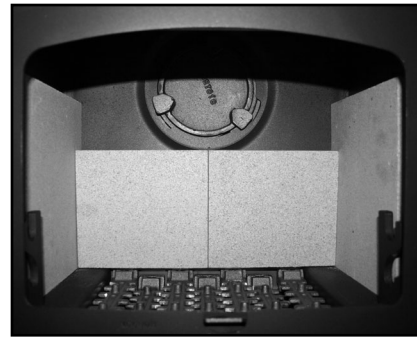


Fig. 10. Liners inserted



Fig. 11. Inserting the throat plate

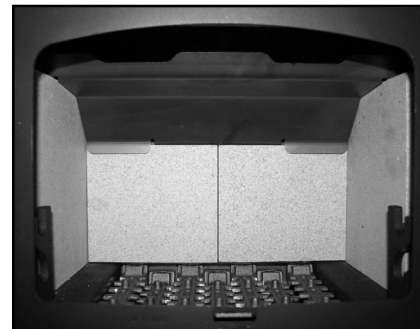


Fig. 12. Liners & throat plate correctly fitted

OPTIONAL ADD IN BOILERS

Aarrow Ecoburn Wood and Multifuel stoves offer the option of a slab boiler, which occupies the position of the rear firebox liner panels.

Fitting:

- Remove the fuel retainering bars, rear firebox liner panels and throat plate.
- Knock out the blanking discs in the back plate corresponding to the terminals on the boiler.
- Introduce the boiler to the appliance through the main fire door and locate the terminal pipes through the back plate holes and seal around boiler terminals with fire cement.
- Engage locking nuts to the thread of the terminals and tighten to secure the boiler in position, ready for connection to flow and return pipes.
- Replace throat plate and the fuel retainering bars.

Note: On boilers the terminal which is approximately flush with the edge of the boiler and marked "TOP" must be fitted uppermost, to prevent "Kettling".

WATER CONNECTIONS

Heating systems

The size of the heating system which can be run, will depend on the output rating of the appliance. It will be necessary to work out heat loss calculations for the system proposed in order to establish the kW/hr rating. An appliance that will meet this figure can then be chosen; (for boiler outputs please refer to the brochure).

The constructional requirements of installing and connecting the appliance also need to be taken into account when selecting. Design and calculations for individual heating systems should be carried out by a qualified heating engineer. In many cases your

supplier will be able to offer advice and assistance.

Direct Systems

Stainless steel boilers, either factory fitted or retro-fitted as add-in boilers enable connection to direct systems to be made without the need to change the cylinder or to fit an expansion tank. This applies to domestic water supply only **and should not be done when in an area with soft water.** If radiators are used then an indirect system must be utilised.

To connect the cylinder use 28mm copper pipes. Ensure that the pipes rise continuously to the cylinder.

Ensure that the runs are not too long, i.e. 20ft maximum each for flow and return. Install the cylinder above the level of the fire, and as close to it as possible. (the higher the cylinder the faster the circulation). Ensure that no valves are present in the circulating pipes.

Indirect Systems- The Domestic Hot Water Circuit

In addition to providing hot water the primary circuit is essential in providing a "heat leak" to absorb excessive heat produced in the event of the circulation pump shutting down.

Heat is produced in varying quantities while the fire is alight and care must be taken to ensure that effective circulation can occur around the primary circuit to carry heat away and thus stop boiling. The output of any radiator installed as a "heat leak" should not be less than 10% of the rated output of the appliance. The radiator should **not** be fitted with a control valve.

The cylinder must be of the indirect type with a minimum capacity of 110 litres, conforming to BS 1566 part 1.

INSTALLATION

Primary flow and return pipes should be 28mm diameter. The cylinder should be installed at a higher level than the appliance, and as close to it as possible (the higher the cylinder the faster the circulation). The flow and return pipes should not be longer than 20ft each. Pipe runs should rise continually from the boiler to the cylinder.

A radiator of approximately 25 sq.ft. should be connected into the primary circuit, if installed in the bathroom it provides a means of drying towels in the summer.

Safety Vent Circuit

This circuit consists of a cold feed pipe, expansion pipe, and expansion tank. The possibility that water may boil can never be completely ruled out, and it is therefore vital to ensure that cold water can be supplied to the boiler and steam vented from it at all times.

The expansion tank should have a capacity of at least 7 % of the system's water capacity. The cold water feed pipe should be at least 22mm diameter.

There must not be any shut off valves in the circuit. Pipes should be run to avoid air locks. A spring safety valve should be fitted to the expansion pipe close to the boiler.

It is often possible, and is good practice, to utilise the primary flow and return as part of the safety circuit. The ball valve should have a copper ball. The overflow pipe from the expansion tank should be 28mm diameter copper. Pipes in unheated spaces must be lagged.

FINAL CHECK

Before handing over the installation to the customer it is strongly recommended that the appliance is lit and the functioning of the chimney, hot water and heating system is checked.

A checklist (Pre-lighting Checks) appears in the Operating Instructions, but in addition to this the installer should:

- Operate the heating system and set the pump head.

- Balance the radiators.

- Re-vent and ensure no air locks.

- Check the circulation round the primary system and the heat leak radiator, particularly when the pump is running, to ensure circulation is not reversed.

- Be sure that the chimney is operating and that ALL smoke and fumes are vented to the atmosphere through the chimney terminal.

- Check all joints and seals.

- Clean the outside of the appliance to prevent any stains becoming burnt on.

- Check the flue draught which should read 1 - 2mm, or 0.1 - 0.2mbar.

The following details **must** be checked and completed in full by the installer at the time of installation. Please answer all questions as fully as possible. **Aarrow Fires** can not be held responsible for chimney or installation.

HOT WATER SYSTEMS	
Is the boiler cross-flowed?	YES / NO
Are the pipes correctly sized?	YES / NO
What is the calculated output required to heat the system?	
Is a heat leak fitted?	YES / NO
What is the return water temperature?	
Is the pump thermostatically controlled by a pipe stat?	YES / NO
What is the height and distance of the hot water tank above the stove?	

CHECKLIST

Hearths, Fireplaces, Flues and chimneys

This checklist is to ensure hearths, fireplaces, flues and chimneys are satisfactory, and to show what you have done to comply with the requirements of The Building Regulations 2000 Approved Document J 2002.

1. Building address, where work has been carried out.....	
2. Identification of hearth, fireplace chimney or flue	
3. Firing capability: solid fuel/gas/.	
4. Intended type of appliance. State model and output.	
5. Ventilation provisions for the appliance: State type and area of permanently open vents.	
6. Chimney or flue construction a) State the type or make and whether new or existing. b) internal flue size (and equivalent height, where calculated - natural draught gas appliances only). c) If clay or concrete flue liners used confirm that they are correctly jointed with socket end uppermost and state jointing materials used. d) If an existing chimney has been refurbished with a new liner, type or make of liner fitted. e) Details of flue outlet terminal and diagram reference. Outlet Details: Complies with: f) Number and angle of bends. g) Provision for cleaning and recommended frequency.	
7. Hearth. Form of construction. New or existing?	
8. Inspection and testing after completion Tests carried out by: Tests and results Flue inspection visual sweeping coring ball smoke Appliance (where included) spillage	
<p>I/we the undersigned confirm that the above details are correct. In my opinion, these works comply with the relevant requirements in Part J of Schedule 1 to the Building regulations.</p> <p>Print name and title.....Profession..... Capacity.....Telephone..... Address.....Post code..... Signed.....Date.....</p>	

SERVICING & MAINTENANCE

CLEANING

INTERNAL SURFACES

IMPORTANT -

Under some circumstances soot can quickly build up on the throat plate and adjacent areas. The throat plate should be removed and checked monthly, and any debris stripped off. Similarly, clean the upper surface of the firebox. Refer to page 16 for instructions on the throat plate removal / inspections.

OUTER FINISH

The outside finish of the appliance is a durable high temperature paint. It is best cleaned by brushing down with a clean shoe brush. Do not allow moisture to remain on the appliance whilst cold or surface rust may form.

The high temperature paint should not require attention for some time, depending on use. The hotter the fire burns the sooner repainting will be necessary. Aerosol tins of paint are available for complete refurbishing. Before repainting make sure that the fire is out and is cold.

- Remove the door glass.
- Lightly wire brush, or rub with wire wool, the body of the appliance to remove any loose paint powder.
- Mask or remove items such as brass work.
- Any adjacent brickwork, mantelpiece, hearth, etc., should be carefully masked for quite a distance around the appliance. (this precaution is to prevent discolouration of the surrounding brick work, wallpaper etc).

Re-spray in a well-ventilated area - avoid breathing the vapour. Refer to safety instructions on paint cans.

- When the paint is dry refit door glass and any other parts previously removed.
- Leave the appliance for eight hours before re-lighting.
- Burn slowly for the first four hours, then build up heat gradually to cure the paint.

Note: Use only genuine Aarrow Fires touch-up spray as some paints interact. This could ruin the finish and invalidate the guarantee.

DOOR GLASS

The door glass should remain clear during normal daytime burning. However under certain conditions-such as burning at a low rate with damp wood, or overnight burning, the glass may become somewhat blackened. To remedy this, operate the appliance at a fast rate. Alternatively when the stove is cold open the door and clean the inside face of the glass with a damp cloth or with glass cleaner (available from fire stockists). A piece of cloth moistened with vinegar and dipped in wood ash - **not coal ash** - will provide a good soft scourer to remove the soot without scratching the glass.

CHIMNEY SWEEPING

Sweeping should be carried out with an appropriate sized bristle brush and rods to suit chimney size and type. As with all appliances regular sweeping of the flue is essential to avoid the danger of blockage and the escape of poisonous fumes. Access for cleaning should also be incorporated in the chimney (e.g. soot door or access through register plate).

Any existing chimney should be swept prior to installation of the appliance, and swept again a second time **within one month** of regular use after installation to establish frequency of sweeping required. This should be done by a competent person such as a NACS chimney engineer who will provide a Certificate of Chimney Sweeping.

Sweep the whole flue way, including the outlet, at least twice per burning season. It is important that the flue ways, flue pipe and chimney be cleaned prior to lighting the fire after a prolonged shut-down period.

If any damage or doubt over the flue or chimney exists, **DO NOT** use the appliance until the chimney and connector have been inspected and any damaged parts repaired or replaced. This should be done by a competent person such as a HETAS registered engineer.

ANNUAL MAINTENANCE

It is important that your fire is regularly serviced in accordance with these instructions. This should be carried out at least annually by a qualified person and should consist of the following.

Remove the fire lining(s), and throat plate, inspect all gasketing on doors, glass etc. and re-order any items that may need replacing, from your Aarrow dealer. With a wire brush clean inside the appliance paying particular attention to the small inlet holes of the air wash on the inside of the stove, above the fire door. Ensure the inside face of the fire door is free of debris around the area of the primary air inlet.

Sweep the chimney and confirm that it is sound. Examine all joints in the flue pipe etc. and re-seal if necessary.

SUMMER STORAGE/NON USAGE

Please ensure that your stove is left clean and moving components are well lubricated for the summer months (during periods of prolonged non use). If possible store the throat plate outside of the stove, check all movable components, at regular intervals, to ensure they are moving freely.

Allow air movement through the stove, by opening the airwash and primary air inlet(s) controls to about half way open or leave the door ajar. This will allow a free flow of air through the appliance thus preventing moisture and condensation forming inside the stove and chimney. This preventative maintenance will ensure your stove stays in the best condition for the coming winter months.

DOOR ADJUSTMENT

Once the appliance has been under fire for a period of time the fire door may appear to have moved out of alignment with relation to the door aperture. This is quite normal and due to the settling of the casing.

The fire door can be re-aligned by the user as follows:

- When the appliance is cold, open the fire door so that it is at a right angle to the front face of the fire.
- Lift the fire door up off the hinges. .
- Gently tap the two hinge pins in a direction to compensate for the misalignment.(Fig.13)
- Refit the door and check to ensure it now sits square to the body; if not repeat above steps.

Raising the door as follows:

- When the appliance is cold, open the fire door so that it is at a right angle to the front.
- Lift the fire door up off the hinges.
- Drop one washer on the top and bottom hinge pin .
- Refit the door and check.

Please Note: There is no adjustment to the door lock/catch assembly.



Fig. 13. Adjusting the door hinge

SERVICING & MAINTENANCE

DISASSEMBLE AIRWASH

The Arrow Ecoburn air wash may be disassembled for cleaning or adjustment. To achieve this, the following procedure should be followed:

Note - This should only be carried out when the fire is cold and unlit.

- Unscrew (Anti-clockwise) the airwash control knob (Fig. 14).
- Move outer cover up by tapping each end of the cover with a soft mallet.
- Lift outer cover free from body, being careful not to damage the ends of each lug (Fig. 15).
- Slide off the spacer tube from the centre stud and retain for re-assembly.
- Unscrew the inner slider and clean/replace (Fig.16).
- Refit using the reverse of this procedure.



Fig. 14. Unscrew control knob



Fig. 15. Lifting cover from body



Fig. 16. Inner slider removal

FUEL RETAINER BARS - INSPECTION

Fuel retaining bars are supplied with the stove. Periodically check for any bowing or heat warpage to the fuel retaining bars and replace as necessary.

Note: This operation should only be carried out when the appliance is unlit and cold.

FIRE DOOR GLASS

In the event of the door glass being broken it can easily be replaced.

Note: This operation should only be carried out when the appliance is unlit and cold.

- The door should be lifted off the hinges so that the operations can be carried out on a workbench or similar level surface.
- Unscrew the four hex bolts, on the inside of the door securing the retaining clips.
- Carefully remove any pieces of broken glass, and sealing gasket wearing suitable gloves.
- Re-place the gaskets and line them up in relation to the door frame. (Fig. 17)



Fig. 17. Lining up the gasket

- Re-seat the new glass, ensuring the sealing gasket is flat and in contact with the glass. (Fig. 18)



Fig. 18. Fitting the glass

- Replace the four retaining clips and bolts. Do not over-tighten the bolts as damage may occur to the glass (Fig.19) Re-place the door carefully over the hinges and slot in place.

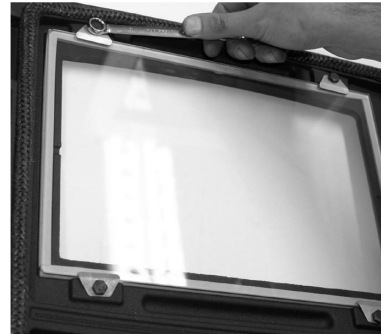


Fig. 19. Tightening the glass clips

SERVICING & MAINTENANCE

Date of Visit	Company	Work Carried Out	Signature

Should you have any questions about your Ecoburn stove that is not covered in this manual please contact your Aarrow Fires retailer.

Please keep all repair receipts safely.

Please ensure you have this manual available when an engineer visits as they will complete the service record chart.

OPERATING INSTRUCTIONS

FUEL TYPES

Wood- Any type of wood is suitable provided it is well seasoned and has a moisture content below 20%. This usually implies that the timber has been suitably stored to allow moisture to evaporate for at least nine months in the case of soft woods, and at least eighteen months in the case of hard wood. We recommend that for general burning, wood should be split into logs of no more than 130mm (5") diameter.

Larger logs can be used for overnight burning.

WARNING wet wood must not be used as this will greatly contribute to the creation of tar and creosote which may, in extreme cases, run down the chimney in liquid form. This will seriously damage both the chimney and the appliance, and increase the risk of chimney fire.

Note: If you have sticky tar inside the appliance or chimney your wood is 'Green' or too wet.

Recommended Reading:

"Wood as Fuel" available from the Forestry Commission.

Peat- Can be used in turf or briquette form, but again the moisture content must be low.

Paper- paper will burn successfully. Burn dry paper only or chimney damage will occur.

NEVER BURN PLASTICS OR WASTE IN YOUR STOVE.

Coal - Household coal produces a large amount of ash and smoke. If used the appliance and chimney will require frequent cleaning. Therefore soft house coal is **not** recommended.

Recommended fuels are as follows:

The Hetas Ltd, "Three Tick" appliance approval only covers the use of the following fuels in this appliance; Phurnacite, Phurnacite Plus, Centurion, Maxibrite, Extracite, Pureheat, Blazeprite, Taybrite, Sunbrite (Doubles/Singles), Anthracite (Large Nuts), and Welsh Dry Steam Coal (Large/Small Nuts).

Approval does not cover the use of other fuels either alone or mixed with the suitable fuels listed above, nor does it cover instructions for the use of other fuels. For latest details please refer to Hetas website www.hetas.co.uk.

Do not use Homefire (six sided) and smaller sizes than Stovesse, e.g. Beans, Peas, Grains.

Do not use petroleum based solid products such as Calco or Petrocoke.

To do so will invalidate the appliance guarantee

LIGHTING THE FIRE

Prior to lighting the fire for the first time check with the installer that:

- Installation and all building work is complete.
- The chimney is sound and has been swept and is free from obstruction.
- Adequate provision for combustion air has been made, i.e. a permanent vent of at least 550mm² per kW of rated output above 5 kW, is fitted in the room in which the appliance is installed.
- That Building Regulations and any local by-laws have been followed during installation (see installation instructions).
- All firebox liner panels are in place.
- Throat plate is in place.
- Where add in boilers are fitted ensure that the system is full of water and vented, and precautions have been taken to prevent corrosion (see installation Instructions).
- That the chimney draw has been checked and is within specification. With the chimney warm the draught should be between 1 - 2mm water gauge (0.1 - 0.2mbar).

WARNING: An over drawing chimney can cause over-firing resulting in damage to the appliance.

WARNING - ADD IN BOILERS: Do not light the fire if it is suspected that any part of the water system is frozen.

OPERATING INSTRUCTIONS

ENSURE THAT YOU HAVE READ & UNDERSTOOD THESE INSTRUCTIONS BEFORE LIGHTING THE FIRE.

ALWAYS WEAR SUITABLE PROTECTIVE FIRE GLOVES WHEN REFUELLING YOUR STOVE.

SOLID FUEL BURNING (Multifuel Version Only)

- Set the grate to 'coal' position.
- Ensure that the ash pan is in position and the fire doors are closed.
- Set the air wash (secondary air) to one quarter open position.
- Set the primary inlet to the fully open position
- Light in the normal manner with paper and kindling, or use a fire lighters.
- If using a gas poker be sure to remove it immediately when the fire is alight.
- When the fire is well alight regulate the burning rate by adjusting the setting on the primary air inlet control.
- The air wash can be opened sufficiently to keep the door glass clean.

BURNING WOOD

- When burning wood on multifuel version set to grate to wood burning position.
- If wood burning only version no further settings are required.
- Set the air wash to fully open position.
- Proceed as for solid fuel but note the fire will burn up and become established more quickly.
- Ensure primary air control is in the fully closed position. Note some familiarisation may be required due to fuel variation and some adjustment may be necessary.

MIXED FUELS (Multifuel Version Only)

- The grate can be set to either coal or wood position depending on the main percentage of the fuel to be burnt.
- As per coal but allow additional secondary air.
- The primary air inlet can be closed and burning regulated by means of the air wash above the door.

ANTHRACITE (Multifuel Version Only)

Anthracite is more difficult to keep in for long

periods, consequently more care in setting the controls and some familiarisation is necessary when burning anthracite.

Use the smallest size fuel (Stovesse or Small Nuts). Proceed as for manufactured smokeless fuel. Leave the air inlet control open about a quarter or less.

Note: The high temperature paint acquires durability by being "cured" during the initial firings of the appliance. During this time, fumes which are non-toxic, are emitted, certain persons may find they have an unpleasant or irritant effect. Ensure that the area is well ventilated during this time.

OVERNIGHT BURNING

The appliance will burn overnight provided:

- Sufficient fuel is placed in the firebox.
- The controls are set correctly.
- Excess draught is not present in the chimney.
- Close the door.
- If the fire goes out with unburnt fuel left in the firebox increase the air opening slightly, and vice versa.

In the morning

Open the air control fully until embers begin to glow brightly and place pieces of fuel on the fire until it is well established.

WARNING: When wood is burnt slowly in a closed appliance it produces moisture and tar, which will create condensation and deposits in the chimney. This effect can be minimised by burning hard for a short period, about 20 minutes, twice a day. It is usually convenient to do this morning and night.

Note: To avoid chimney problems your fire should not be burnt slowly for longer than 12 hours without a period of fast burning.

WARNING: Properly installed, with a suitable flue and chimney and operated and maintained this appliance will not emit fumes into the dwelling. Occasional fumes from the de-ashing and re-fuelling may occur. However, persistent fume emission is potentially dangerous and must be investigated by a Hetas registered installer.

Stop using the appliance if you smell fumes or see smoke escaping.

AIR INLET CONTROLS

Both Aarrow Ecoburn wood & multifuel stoves have two air inlets:

- The primary air inlet providing under draught to the base of the fire chamber through the control slider located under the oval cover.
- The air wash system (so called because its pre-heated high speed air washes across the inner face of the door glass, keeping it clear), which provides over draught.

PRIMARY AIR

Air enters the appliance through the control on the bottom of the fire door. The Aarrow Ecoburn has a single control knob which slides left to right. Sliding the knob to the right (+), fig.21, will increase the amount of air intake to the stove. To decrease push knob to the left (-) as in fig. 20.

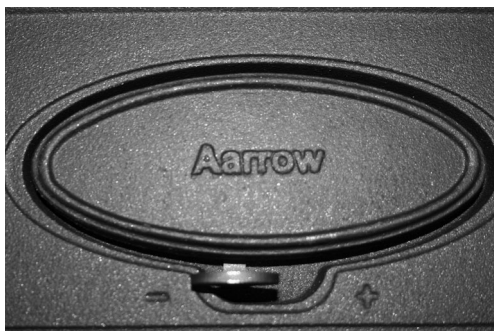


Fig. 20 Closed Position

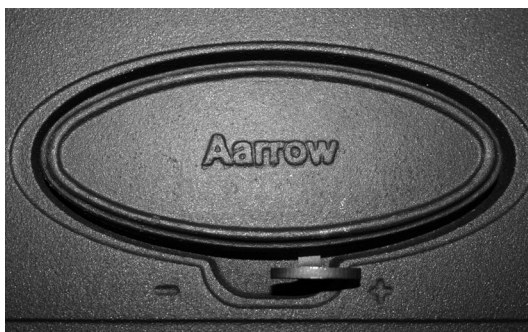


Fig. 21 Open Position

AIRWASH SYSTEM

The air wash has an internal sliding plate with slots, housed in a cover plate, and is located above the fire door. Sliding the control knob to the right as far as it will go achieves the fully open position. Sliding it to the left will shut off the air inlet slots As shown in fig. 22 & 23.



Fig. 22 Fully Closed



Fig. 23 Fully Open

Please Note - refer to page 26 to the type of fuel being burnt, as the position of the air inlet controls are dependant upon the fuel variety being used. Incorrect setting could cause an inefficient heat output and poor fuel consumption from the appliance.

FUEL RETAINER BARS

Fuel retaining bars are supplied with the stove. For wood burning, the top fuel retaining bar may be removed to afford a better view of the fire. Slide and lift the bar until it is clear of the guides at each side, and remove through the fire door opening. The bars are symmetrical and of even lengths making incorrect fitting impossible.

Note: This operation should only be carried out when the appliance is unlit and cold.

OPERATING INSTRUCTIONS

MULTI-PURPOSE OPERATING TOOL

Your Arrow stove comes with a multi-purpose operating tool, which is used for riddling, setting the multifuel grate *, (fuel position) , adjusting the air wash control knob and for the removal of the ashpan.

SETTING THE GRATE

(*Multifuel Version Only)

To use the operating tool for setting the grate in the coal burning position or the wood burning position, place the tool over the external round bar extension , found on the front right hand side of the stove, (see Fig. 24.), move the lever to the desired position as indicated upon the bracket fixed to the stove. This lever is also used for de-ashing and riddling



Fig. 24 Setting The Grate

DE-ASHING (RIDDLE)

It is necessary to maintain an ash layer on the upper surface of the grate bars, in order to protect them so de-ashing should cease as soon as the first red embers drop into the ash pan. Further de-ashing will cause heat build-up under the grate, which will considerably shorten its life. This operation should be carried out with the doors closed to prevent dust escaping into the room.

- Move up and down vigorously the riddling lever (ash will fall into the ash pan beneath the grate). See Fig. 24.
- When de-ashing is complete re-set grate to previous position.
- Empty the ash pan.

Note: Do not force the riddling lever.

TO EMPTY THE ASH PAN

The Ecoburn stoves are supplied with a unique ashpan cover to prevent ash dust from being dispersed around the room when de-ashing. To remove the ashpan , open the fire doors. Slide the ashpan cover over the top of the ashpan, ensuring the two radius holes are aligned with the slots in the ashpan. Fit the fork end of the operating tool into the ash pan / cover and remove from the ash pit chamber.

Empty the ash into a suitable container and replace ashpan into the stove, withdraw the cover & operating tool and close the fire doors.

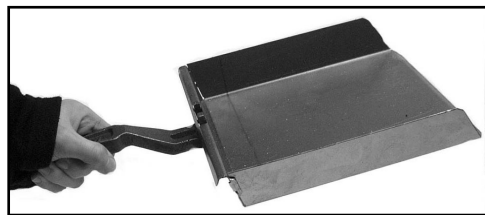


Fig. 25 Operating Tool & Ashpan

Warning: The ash can be very hot. Empty only into a metal container. Even if the ash appears cold, red-hot pieces of ash may be concealed and could easily start a fire or cause an injury.

ASH REMOVAL

The ash pan should be emptied at least twice a day or when the level of ash reaches the top of the ash pan. On no account should the ash be allowed to build up to touch the underside of the grate bars as this will greatly shorten their life span.

When the appliance is burning **Wood** only, it is acceptable to maintain an ash bed on top of the wood tray, of approximately 20mm (3/4") without any un-due effect upon the tray.

AIR WASH CONTROL KNOB

The operating tool can also be used to adjust the air wash control knob. Use the fork end of the tool, place side onto the knob and push in the desired direction as in Fig. 26.



Fig. 26 Adjusting Airwash Controls

MAIN FIRE DOOR HANDLE

A stove mitten is supplied with your Arrow Ecoburn stove, this is provided for the operation of the fire door handle whilst the stove is in use. Care must be taken when opening and closing the fire door as any surrounding areas of the stove will be very hot.

Warning : Never attempt to open the fire door whilst the appliance is in use, without the use of the stove mitten or suitable gloves, serious injuries may occur.

Caution must be given when re-fuelling the appliance, always keep the stove mitten away from naked flames and sparks.

OVER-FIRING

Do not over fire your appliance. Using flammable liquids or too much wood or firing the fire at maximum for prolonged periods may result in over-firing. If the chimney connector or casing glows red it is being over-fired. If this occurs immediately close all air inlets to the appliance to reduce the air supply to the fire. Should a chimney fire occur immediately close the appliance down. Get everyone out of the house and call the fire brigade. A chimney fire may cause structural damage of the chimney. Do not use the appliance until the chimney and connector have been inspected and any damaged parts repaired or replaced. This should be done by a competent person such as a HETAS registered engineer.

CLINKER

The formation of clinker suggests that the unit is being over-fired. Any clinker forming on the grate should be removed when cold.

EXTENDED BURNING

The appliance will burn for an extended period provided:

- Sufficient fuel is placed in the firebox.
- The controls are set correctly.
- Excess draught is not present in the chimney.
- Fire door is closed.
- If the fire goes out with unburnt fuel left in the firebox increase the air opening slightly, and vice versa.

In the morning

- Open the air control fully until embers begin to glow brightly and place pieces of fuel on the fire until it is well established.

WARNING: When wood is burnt slowly in a closed appliance it produces moisture and tar, which will create condensation and deposits in the chimney. This effect can be minimised by burning hard for a short period, about 20 minutes, twice a day. It is usually convenient to do this morning and night.

Note: To avoid chimney problems your fire should not be burnt slowly for longer than 12 hours without a period of fast burning.

WARNING: Properly installed, with a suitable flue and chimney correctly operated and maintained this appliance will not emit fumes into the dwelling. Occasional fumes from the de-ashing and re-fuelling may occur. However, persistent fume emission is potentially dangerous and must be investigated by a Hetas registered installer.



Stop using the appliance if you smell fumes or see smoke escaping.

If fume emission does persist, the following immediate actions should be taken.

- Open doors and windows to ventilate room.
- Let the fire die or extinguish and safely dispose of fuel from the appliance.
- Check the flue or chimney for a blockage, and clean if required.

Seek expert advice from your HETAS registered installer. Do not attempt to re-light the fire until the cause of the fume emission has been identified and corrected

OPTIONAL EXTRA / ACCESSORIES






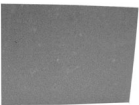
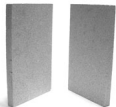
Optional Extra Description	ECB 5 Wood	ECB 5 Multifuel	ECB 7 Wood	ECB 7 Multifuel	ECB 9 Wood	ECB 9 Multifuel	ECB 11 Wood	ECB 11 Multifuel
Aerosol Paint	AFS 101a	AFS 101a	AFS 101a	AFS 101a	AFS 101a	AFS 101a	AFS 101a	AFS 101a
Gothic Tracery 	ECB5 TRACE G	ECB5 TRACE G	ECB7 TRACE G	ECB7 TRACE G	ECB9 TRACE G	ECB9 TRACE G	ECB9 TRACE G	ECB9 TRACE G
Lattice Tracery 	ECB5 TRACE L	ECB5 TRACE L	ECB7 TRACE L	ECB7 TRACE L	ECB9 TRACE L	ECB9 TRACE L	ECB9 TRACE L	ECB9 TRACE L
Add In Boiler**	AIB 0	AIB 0	AIB 8	AIB 8	AIB 9	AIB 9	AIB 10	AIB 10
Stove Gloves	AFS997	AFS997	AFS997	AFS997	AFS997	AFS997	AFS997	AFS997
Floor Fixing Kit	AFS 1135	AFS 1135	AFS 1135	AFS 1135	AFS 1135	AFS 1135	AFS 1135	AFS 1135
Stand *	ECB5 STAND	ECB5 STAND	ECB7 STAND	ECB7 STAND	ECB9 STAND	ECB9 STAND	N/A	N/A
Add On Low Canopy	AOC XSL	AOC XSL	AOC SL	AOC SL	AOC ML	AOC ML	AOC LL	AOC LL
Add On High Canopy	N/A	N/A	AOC SH	AOC SH	AOC MH	AOC MH	AOC LH	AOC LH
Kooler To Touch Fire Door Handle	AFS 1305	AFS 1305	AFS 1305	AFS 1305	AFS 1305	AFS 1305	AFS 1305	AFS 1305
Convector Kit	ECB5 CONKIT	ECB5 CONKIT	ECB7 CONKIT	ECB7 CONKIT	ECB9 CONKIT	ECB9 CONKIT	N/A	N/A

Note

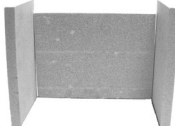





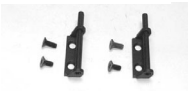
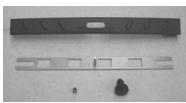

* - The overall height of the stand is 160mm. This increases the combined height of stove and stand by 100mm. This will effect the height from the floor to the centre of the rear flue outlet, just add 100mm to rear flue outlet, see page 8 for technical information.

** - See page 17 for instructions on how to fit the add in boilers.








SPARE PARTS LIST

Part Description & Visual Aid (not to scale)	ECB 5 Wood	ECB 5 Multifuel	ECB 7 Wood	ECB 7 Multifuel	ECB 9 Wood	ECB 9 Multifuel	ECB 11 Wood	ECB 11 Multifuel
1. Grate bars 	N/A	AFS001	N/A	AFS001	N/A	AFS001	N/A	AFS002
2. Wood burning tray 	AFS 1196	N/A	AFS 1197	N/A	AFS 1198	N/A	AFS 1247	N/A
3. Stainless steel throat plate 	AFS 1193	AFS 1193	AFS 1194	AFS 1194	AFS 1195	AFS 1195	AFS 1248	AFS 1248
4. Flue spigot 	AFS 009a	AFS 009a	AFS 010	AFS 010	AFS 010	AFS 010	AFS 011	AFS 011
5. Hotplate 	AFGS 064	AFGS 064	AFS 009	AFS 009	AFS 009	AFS 009	AFS 012	AFS 012
6. Rear liner(s) 	AFS 1207	AFS 1207	AFS 1210	AFS 1210	AFS 1213	AFS 1213	AFS 1244	AFS 1244
7. Side liners 	AFS 1206	AFS 1206	AFS 1209	AFS 1209	AFS 1212	AFS 1212	AFS 1243	AFS 1243

SPARE PARTS LIST

Part Description & Visual Aid (not to scale)	ECB 5 Wood	ECB 5 Multifuel	ECB 7 Wood	ECB 7 Multifuel	ECB 9 Wood	ECB 9 Multifuel	ECB 11 Wood	ECB 11 Multifuel
8. Liner Set 	AFS 1205	AFS 1205	AFS 1208	AFS 1208	AFS 1211	AFS 1211	AFS 1242	AFS 1242
9. Stainless steel ashpan 	AFS 1199	AFS 1199	AFS 1200	AFS 1200	AFS 1201	AFS 1201	AFS 1249	AFS 1249
10. Fuel Retainer 	AFS 1190	AFS 1190	AFS 1192	AFS 1192	AFS 1191	AFS 1191	AFS 1240	AFS 1240
11. Operating Tool 	AFS 008	AFS 008	AFS 008	AFS 008	AFS 008	AFS 008	AFS 008	AFS 008
12. Replacement Glass & Gasket 	AFS 1214	AFS 1214	AFS 1215	AFS 1215	AFS 1216	AFS 1216	AFS 1216	AFS 1216
13. Glass Clips 	AFS 1010	AFS 1010	AFS 1010	AFS 1010	AFS 1010	AFS 1010	AFS 1010	AFS 1010
14. Hinge & Fixing Kit 	AFS 047	AFS 047	AFS 047	AFS 047	AFS 047	AFS 047	AFS 047	AFS 047
15. Air Wash Assembly 	AFS 1293	AFS 1293	AFS 1293	AFS 1293	AFS 1293	AFS 1293	AFS 1293	AFS 1293
16. Ashpan Cover 	AFS 1202	AFS 1202	AFS 1203	AFS 1203	AFS 1204	AFS 1204	AFS 1252	AFS 1252

SPARE PARTS LIST

Part Description & Visual Aid (not to scale)	ECB 5 Wood	ECB 5 Multifuel	ECB 7 Wood	ECB 7 Multifuel	ECB 9 Wood	ECB 9 Multifuel	ECB 11 Wood	ECB 11 Multifuel
17. Fire Door Rope Kit Complete With Glue 	AFS 1021	AFS 1021	AFS 1021	AFS 1021	AFS 1021	AFS 1021	AFS 1021	AFS 1021
18. Main Fire Door Assembly, Complete With Handle, Glass, Gaskets, Clips & Seal 	AFS 1218	AFS 1218	AFS 1219	AFS 1219	AFS 1220	AFS 1220	AFS 1220	AFS 1220
19. Door Handle Assembly 	AFS 1306	AFS 1306	AFS 1306	AFS 1306	AFS 1306	AFS 1306	AFS 1306	AFS 1306
20. Replacement Instructions 	AFS 1121	AFS 1121	AFS 1121	AFS 1121	AFS 1121	AFS 1121	AFS 1121	AFS 1121
21. Comb & Extension 	N/A	AFS 1226	N/A	AFS 1227	N/A	AFS 1228	N/A	AFS 1250
22. Grate Bar Support 	N/A	AFS 1229	N/A	AFS 1230	N/A	AFS 1231	N/A	AFS 1251
23. Stove Mitten 	AFS 1285	AFS 1285	AFS 1285	AFS 1285	AFS 1285	AFS 1285	AFS 1285	AFS 1285

GUARANTEE

Guarantee

Once again we would like to thank you for buying an Arrow Ecoburn stove.

When you buy an Arrow stove, you are not only buying a first class appliance - you are buying a commitment from us to look after you and your appliance for as long as you want.

The Ecoburn stoves come with a ***Lifetime Guarantee*** against splitting or cracking of the main body. The main body being defined as the steel outer casing and items fixed immovably to the casing. All other parts are covered by a one-year no-quibble parts Guarantee.

This Guarantee shall not apply to any part that has been altered in any way, or which in our judgment has been subjected to misuse, neglect, accident, abuse and fair wear and tear.

Items which would be subject to fair wear or tear, firebox liner panels, fuel retainers, throat plate, door rope, door glass and gaskets are not covered by the guarantee. However, should you have any problems with your appliance please contact your Arrow stockist who will have the knowledge and facilities to help you.

Claims are not valid where the installation does not conform to local Building Regulations and fire codes.

The Guarantee is conditional upon the appliance being serviced and checked annually by a qualified heating engineer.

The Manufacturers decision shall be final.

If your appliance proves to be defective as a result of faulty materials or workmanship during the guarantee period, we will repair or replace it FREE OF CHARGE as long as the fire has been installed according to the manuals instructions and the Final Installation Check List on page 19 has been completed and signed by a suitably qualified engineer.

USE OF SPARE PARTS OTHER THAN THOSE SUPPLIED BY AARROW WILL INVALIDATE THE APPLIANCE WARRANTY.

AARROW WILL NOT BE RESPONSIBLE FOR ANY CONSEQUENTIAL OR INCIDENTAL LOSS, DAMAGE OR INJURY HOWEVER CAUSED.

All Guarantee periods commence on the date of purchase and are non-transferable.

Our Lifetime Guarantee is offered as an addition to your statutory rights.

If you think your fire is not working correctly or in the event of a breakdown, **please call your local dealer.**

When you contact them, they will want to know:

1. Your Name, Address/Post Code and Telephone Number
2. Serial Number
3. Clear and concise details of the fault

This installation and operating manual gives sufficient details to enable the appliance to be installed and maintained. If further information is required, our technical helpline will be pleased to help. Please telephone **01308 427234** or email : **info@arada.uk.com**

Please Note -

The appliance serial number can be found stamped into the the casing of the main stove body, centrally just below the bottom edge of the fire box apperature.



Lifetime Guarantee

For your peace of mind

Aarrow Fires gives a Lifetime Guarantee against manufacturing defects of the main body* of its Ecoburn range of stoves. Additionally, all other parts are covered by a one year no quibble replacement guarantee. This guarantee covers replacement of the item only and does not extend to any other costs, including labour, incurred in its replacement. Documentation must be retained and produced in the event of a warranty claim. This guarantee specifically does not cover accidental damage, misuse, wear & tear. The use of non Aarrow replacement parts will invalidate your warranty. For full details contact your local Aarrow Fires retailer. All guarantees are in addition to your statutory rights. Please see page 34 for further information regarding the lifetime guarantee.

*The main body defined as the steel outer casing and items fixed immovably on to this casing.

FINAL FACTORY CHECK LIST

Model.....
Serial No.....



*I've checked it
and it's O.K.*

QUALITY	
FINISH	
PARTS	
FLUE OUTLET	
HOT PLATE	
FUEL RETAINERS	
GRATE BARS / WOODBURNING TRAY	
FIREBOX LININGS	
THROAT PLATE	
AIR WASH	
DOOR CATCH / NICKEL PLATED HANDLE	
ASH PAN & COVER	
ADJUSTING FEET X 2	
OPERATING TOOL	
CONVECTOR KIT FIXINGS X 4	
OPERATING INSTRUCTIONS	
STOVE MITTEN	

Assembled by.....

Checked by

Date of Purchase.....

Name and address of supplier.....

.....
.....