Euroheat

The Stove Company

IN1042
Installation Instructions For

HARMONY
1 & 3

STANFORD
80

Wood and Multifuel Stoves

This manual must be used in conjunction with document

IN1173 The Wood and Multifuel Chimney and Installation Guide,

This Manual Must Always Be Available To The Stove Operator

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Thermic Distribution Europe S.A.
B-5660
Frasnes Les Couvin
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Part No.

Model Name

Serial Number

E & OE Instructions Part number IN1042 Edition H

The Model Range Explained

Nestor Martin and Euroheat insist on progressive development to produce products which are market leading. Our aims are to produce stoves with the latest innovations, user friendly operation and highly efficient for lower cost operation.

This operation manual offers user information for the range of HARMONY 1, HARMONY 3, AND STANFORD 80 In some cases you find references in this document to the model size rather than the models exterior design. There are two sizes of appliances. Harmony 1, Stanford 80 referred to as size 1. Harmony 3 as size 2. Although the exterior cloths change between model change, for example the Harmony 1 and the Stanford 80, the internal workings are the same. The Harmony 1 and Harmony 3 are multifuel models, while the Stanford 80 unless fitted with multifuel kit is only suitable for wood.

Model Identification

You will see on the front page of this document a label which confirms which model you have. This label also advises you of the stoves unique serial number. This information is also attached to your stove for reference.

Important

Please ensure the warranty registration form is completed if you are the installer and confirm with the user that it is there responsibility to return it to Euroheat. In this way the model and its history will be recorded for reference in the future.
For the latest versions of manuals, technical information, accessories and spare parts visit the euroheat web site.

Euroheat
The Stove Company

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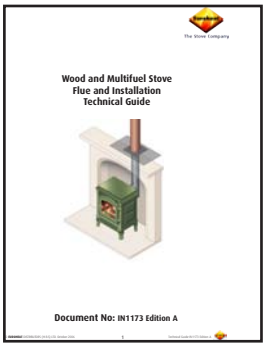
Whilst we are always happy to assist you, please make sure you have read this manual and The Wood and Multifuel Chimney and Installation Guide, before contacting the technical support team.
Technical support telephone number 01885 491117. E-mail tech@euroheat.co.uk



The Wood and Multifuel Chimney and Installation Guide.

Document No: IN1173. This guide which is included with the stoves information pack should be used in conjunction with this manual for installation advice.

Useful organisations

Solid Fuel Association	0845 601 4406	www.solidfuel.co.uk
The National Association of Chimney Sweeps	01785 811732	www.chimneyworks.co.uk
HETAS Ltd.	0845 634 5626	www.hetas.co.uk

IMPORTANT

■ The installation of this appliance must comply with all local regulations, including those referring to national and European Standards before it can be operated. The stove is not suitable for a shared flue. However, for England and Wales, only, the coming into force on 1st April 2002 of SI 2002 No 440 exempts the householder from this legal requirement for the installation of solid fuel fired appliance whose rated heat output is 50kW or less in a building having no more than 3 storeys (excluding any basement) if a Competent Engineer is employed who is registered under the Registration Scheme for Companies and Engineers involved in the Installation and Maintenance of Domestic Solid Fuel Fired Equipment operated by HETAS Ltd. These registered Competent Engineers may also carry out associated building work necessary to ensure that the installed appliance complies with Building Regulations without involving the Local Authority Building Control Department.

■ Improper adjustment, alteration, maintenance or the fitting of replacement parts not recommended by the manufacturer can cause injury or property damage. Do not operate the stove with faulty seals or damaged glass.

■ Due to the high operating temperatures of this appliance it should be located away from pedestrian traffic and away from furniture and draperies. Do not store paper or wood near the appliance. Any mats and rugs put in front of the stove should be fire proof and secured to prevent the possibility of tripping.

■ Advise all persons as to the stove's high surface temperatures. If it is possible for children or infirm adults to come into contact with the stove, fit a suitable fire guard.

■ It is imperative that all air passageways into, out of, and within the appliance are kept clean. All permanent ventilation into the room provided for the stove must remain clear and unobstructed at all times. Consideration must be given to the need for extra ventilation if another heating source needing air is to be operated simultaneously. If an extraction fan is proposed to be fitted to a connecting area of the house, after the stove has been installed, professional advice should be sought from a qualified engineer.

■ The user should be advised that the appliance should be inspected regularly and the chimney cleaned at least annually.
More frequent cleaning may be required and the advice of a qualified chimney sweep should be sought.

■ Our range of stoves is capable of operating with outstanding efficiency if the flue system is correct. Because so little heat is wasted to the flue it is possible that moisture within the products of combustion will condense if the heat losses within the flue way are too great and allow the flue gases to cool. For this reason we recommend that the stove is fitted with a suitable flue liner, the same diameter as the flue spigot, to prevent the possibility of acidic damage to the fabric of the chimney and damage to the stove which will reduce the longevity of the stove.

■ When correctly installed, the stove is designed to produce heat, safely. It cannot do so if the installation is less than absolutely stable, constructed of materials suitable for such an installation and consideration has not been given to the possibility of people with less than ideal common sense operating it.

■ Have the existing chimney swept by a chimney sweep. Although you will be lining the chimney, any deposits left in the chimney will cause problems and may become a fire hazard.

■ Your attention is drawn to the precautions and responsibilities under the Health and Safety at Work Acts, and whatever new legislation being introduced during the life of this document.

Technical Details

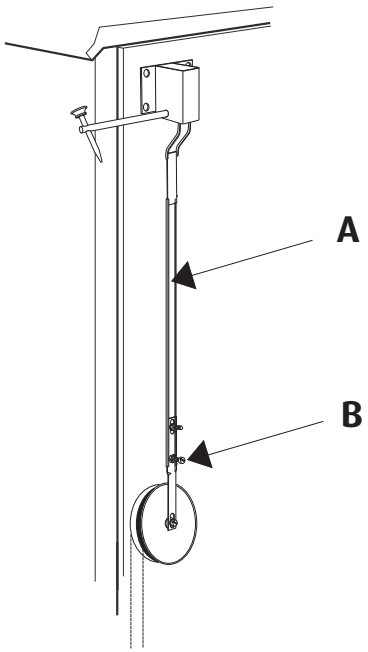
Model Name	Model Number	Heat Output Nominal Wood	Weight KG	Flue Draught Nominal Heat Output	Flue Gas Mass Flow g/s	Flue Gas Temperature Down Stream of Flue Spigot deg C
Harmony 1	39692	8kW	155	11pa	7.6	365
Harmony 3	39696	16kW	213	10pa	14.6	365
Stanford 80	39962	8kW	155	11pa	7.6	365

Model	Flue Size	Air Requirement Equivalent Area as Approved Document J	Efficiency Net %	Efficiency Gross %
Harmony 1	5″ (125mm)	1650mm^2	75	69
Harmony 3	6″ (153mm)	6050mm^2	74	68
Stanford 80	5″ (125mm)	1650mm^2	75	69

The Flue

It is possible to remove the top baffles to access the flue for cleaning. However we would advise that if at all possible an external cleaning access is provided. If the chimney has been lined with the same size flue as the flue pipe it will be possible to sweep from the flue access point. If the flue is of a larger size than the flue pipe it may not be possible to use a sweeping brush of adequate size. In which case another cleaning access will be required. For detailed information see IN1173 The Wood and Multifuel Chimney and Installation Guide.

Adjusting thermostat setting



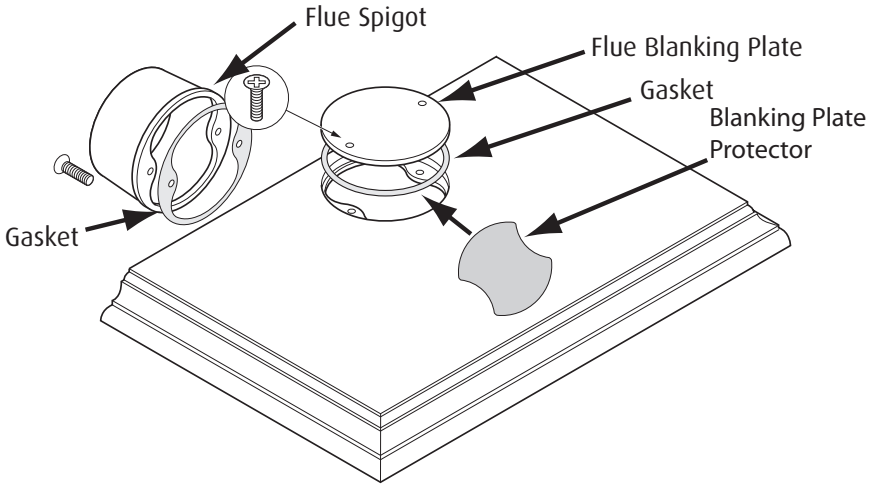
The cold setting of the thermostat must be checked before the stove is operated for the first time.
The thermostat can be adjusted in two places. A may be bent for course adjustment and B for fine adjustment.

With the stove cold the gap between the inside left of the thermostat disc and the cast iron body of the stove should be 0-1 mm at normal room temperature.

Note: the thermostat disc is designed to close at an angle.

Changing to Rear Flue Connection

1. Remove flue spigot from top of stove and the flue spigot protector.
2. Remove flue blanking plate from rear of stove.
3. Fit the blanking plate to top of stove with the blanking plate protector. This protection plate is supplied with the appliance normally located in the ash pan of new models.
4. Fit flue spigot to rear of stove. Do not fit the flue spigot protector.

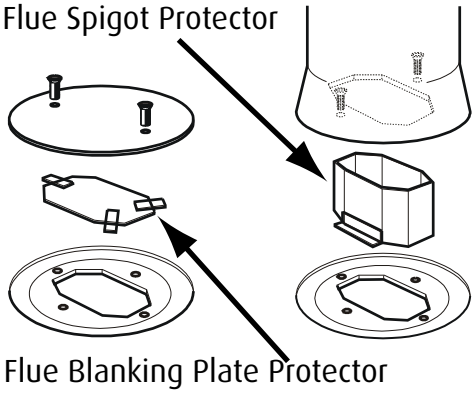


Flue Outlet Configuration

Harmony I, Stanford 80

When using rear flue outlet fit the flue blanking plate protector before fitting blanking plate. This protection plate prevents damage to the flue outlet blanking plate.

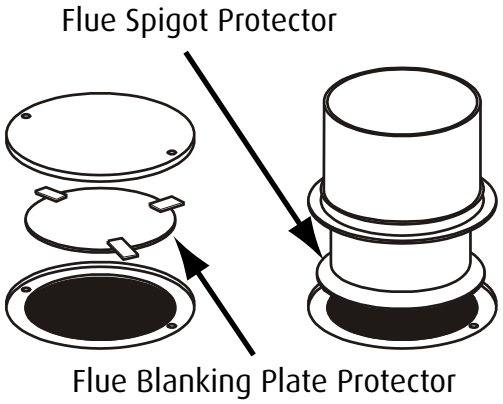
When using top flue outlet fit the flue spigot protector. This protector prevents damage to the flue outlet.



Harmony 3

When using rear flue outlet fit the flue blanking plate protector before fitting blanking plate. This protection plate prevents damage to the flue outlet blanking plate.

When using top flue outlet fit the flue spigot protector. This protector prevents damage to the flue outlet.



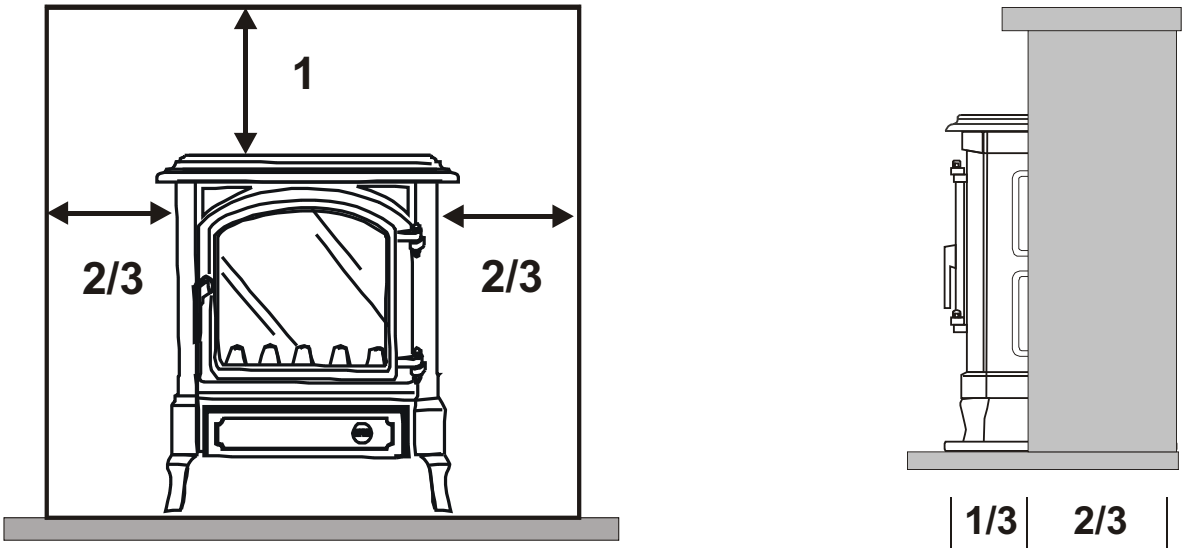
Changing to Top Flue Connection

The procedure is as fitting rear flue but follow the information in reverse and fit the flue spigot protector.

Fireplace Design

Do not be tempted to fit the stove into an unsuitable fireplace. Beyond the requirements of Building Regulations and access to facilitate servicing the stove, providing a setting which will compliment a stove is not a luxury, it is the practicality of making the most of an investment. A good builder or fireplace specialist will be able to transform even the most utilitarian of fireplaces. Whether altering its proportions to those of the "Golden Mean" ideal, see below, or exposing a wooden or stone lintel or simply removing superfluous detailing for a comparatively small cost, and the result will be a pleasure for many years.

"Golden Mean"



1. The stove must always stand perfectly level. Adjustment screws and/or triangular plastic levelling spacers may be provided with the stove. The provision of a suitable level hearth within the recess is an important consideration when planning a fireplace.
2. Sufficient space should be allowed for service work.
3. At least the minimum clearance from inflammable materials and conforming to the current Building Regulations.
4. Sufficient space around the stove so that the controls may be operated without the risk of injury to the operator.
5. Mounting brackets should be installed to facilitate the secure fitting of a fire guard, if one is to be fitted to protect the young, elderly or infirm.
6. Curtains and soft furnishings should be a minimum of 1m from the stoves body or the surface temperature of these furnishings must not exceed 65°C.
7. The mounting of expensive paintings, mirrors and plasma screen televisions above a fireplace is not recommended.

Hearths

The stove should stand wholly above a hearth constructed of suitably robust materials and should be able to accommodate the weight of the appliance and its unsupported flue components. The materials should conform to local Building Regulations and British Standards.

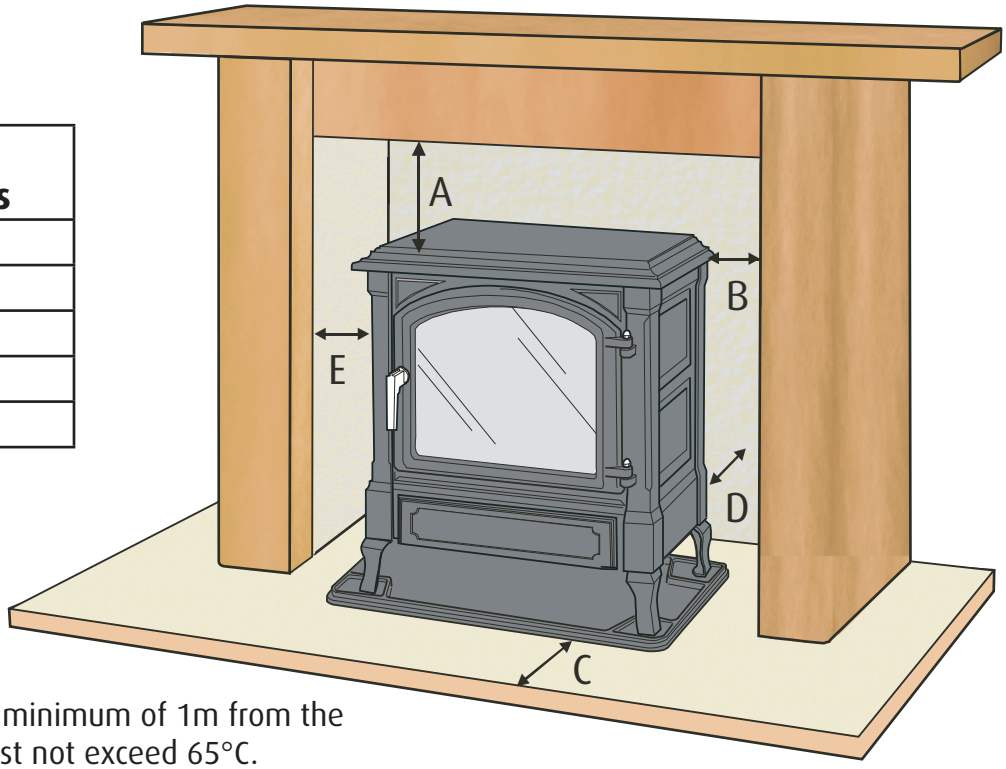
If the stove is not to stand in a purpose built fireplace recess (this excludes prefabricated constructions) a hearth made of non-combustible board, steel material, tiles or glass of at least 12mm thick may be used as long as the floor can accommodate the weight of the appliance and its unsupported flue components.
All our multifuel stoves conform to standards where the hearth temperature does not exceed 100°C. This means a hearth of only 12mm of non combustible material can used. This information only applies to our range of appliances. **Caution** do not fit a 12mm hearth to other manufactures products unless documentation is provided to prove hearth temperatures.

Minimum Installation Clearances

From Combustible Materials.

In all installations surrounding flammable materials must not exceed 65°C.

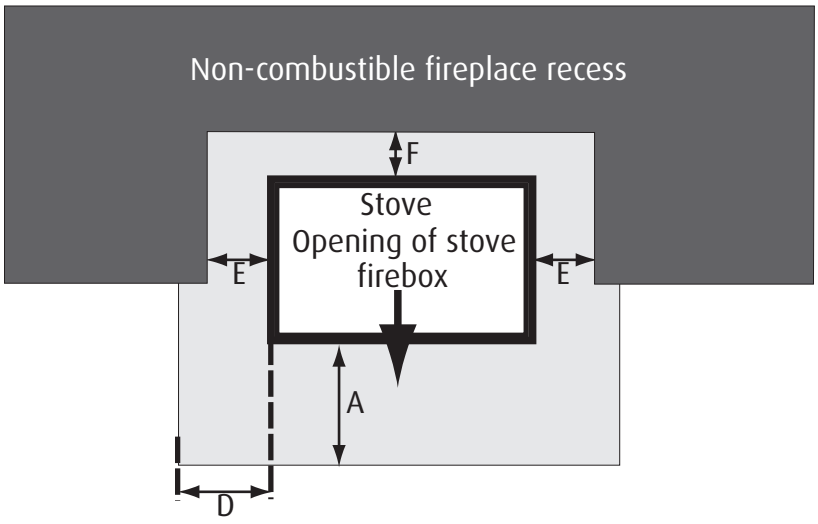
Minimum clearance from flammable materials	
A	300mm At least
B	250mm At least
C	300mm At least
D	300mm At least
E	250mm At least



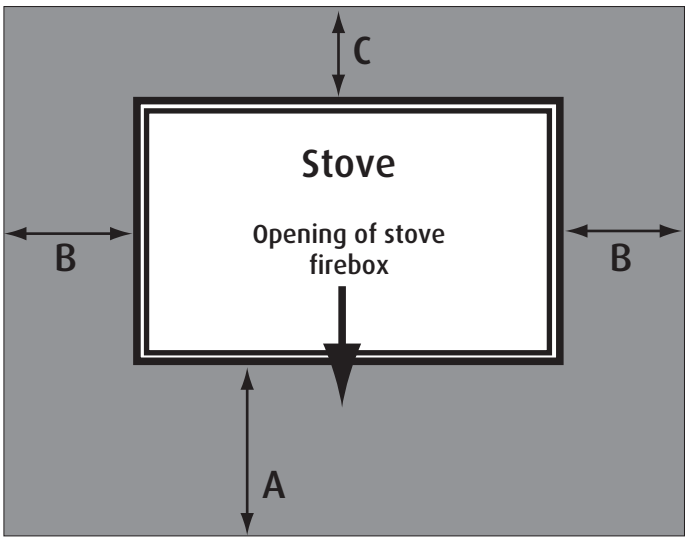
Curtains and furnishings should be a minimum of 1m from the stove or the surface temperature must not exceed 65°C.

From Non-combustible Materials.

In a fireplace recess



Free standing

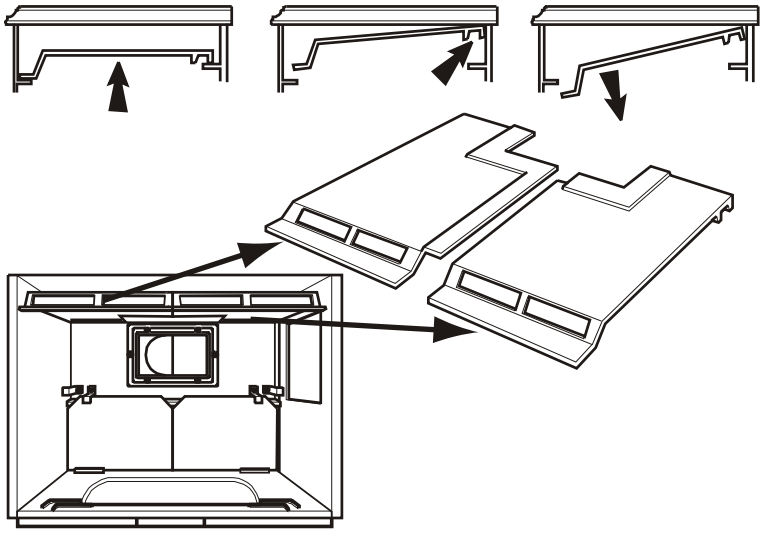


Distance	Required hearth surface
A	At least 300mm the edge of which should be clearly defined
B	At least 150mm the edge of which should be clearly defined
C	At least 150mm the edge of which should be clearly defined
D	At least 150mm the edge of which should be clearly defined
E	At least 50mm* the edge of which should be clearly defined
F	At least 50mm* the edge of which should be clearly defined

Removing Internal Protection Castings and Grate

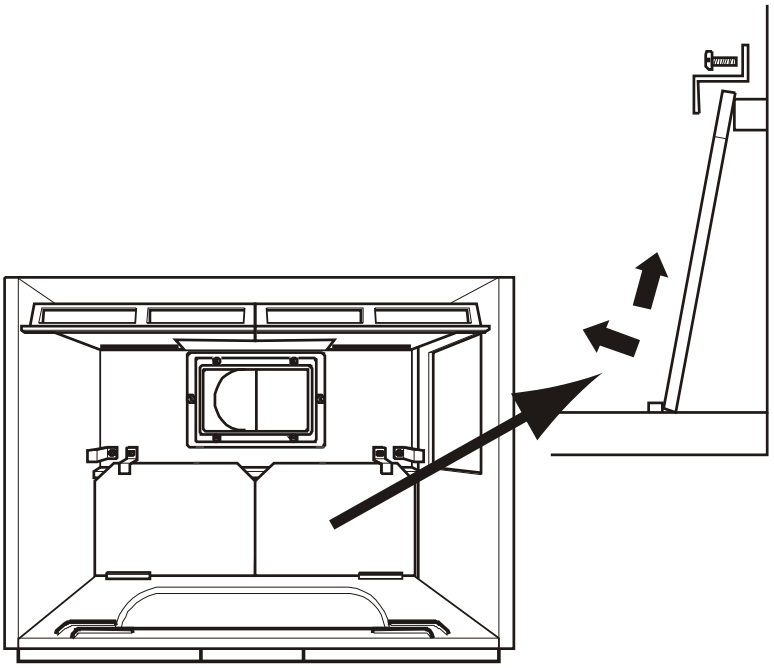
Step 1 Removing Top Baffles

Lift the right hand baffle upwards, lifting the rear more than the front. Move the baffle towards the stove back to allow the front edge to clear the supporting ledge and pull forward. The left baffle removes similarly. To replace the baffles reverse the procedure, ensuring the front edges of the baffles are pulled to the front of the stove and the baffles are as close together as possible.



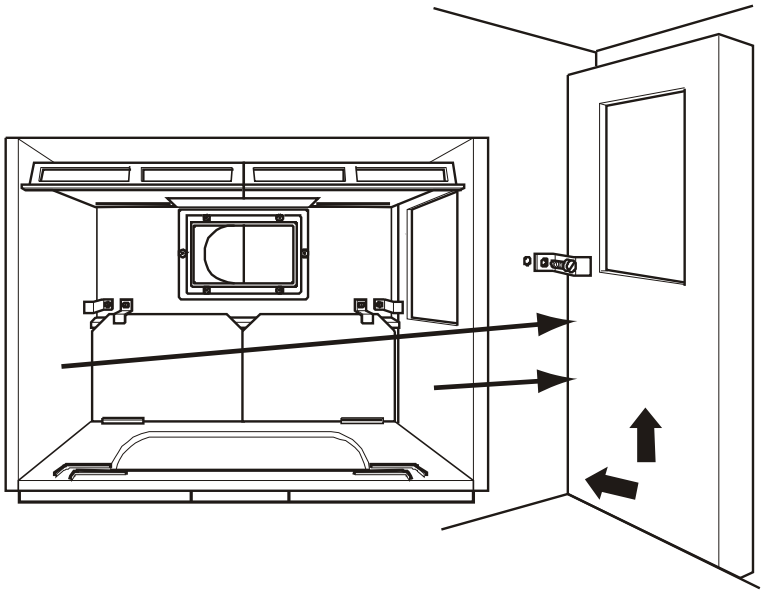
Step 2 Removing Rear Protection Plates

Remove support bracket retaining screws lift out protection plates.



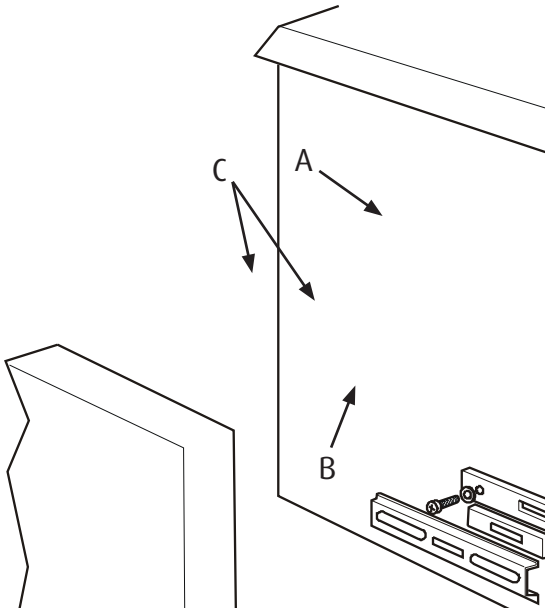
Step 3 Removing Side Protection Plates

Remove support bracket retaining screws lift out protection plates.



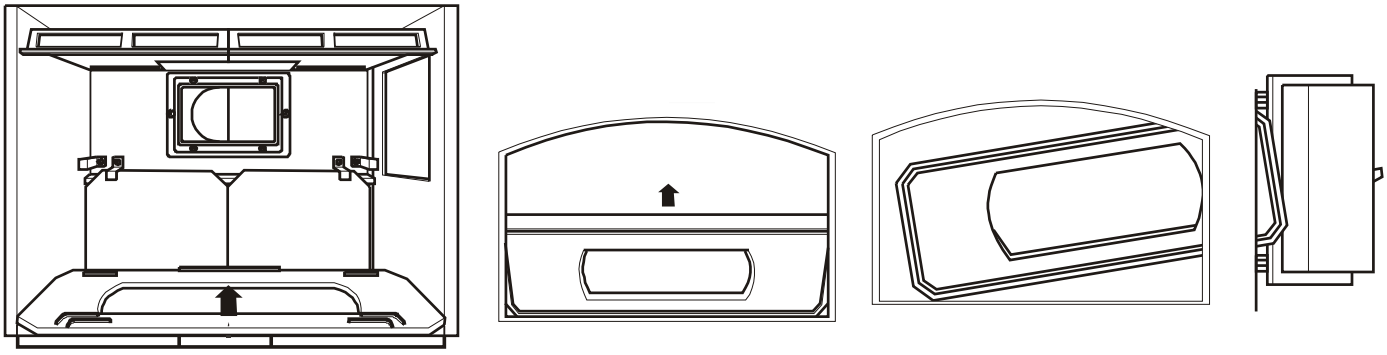
Step 4 Removing Riddling Links

Remove or loosen rear heat shield
Remove screw "A"
Remove riddling link bar "B"
Remove screws "C" and riddler guide seals.



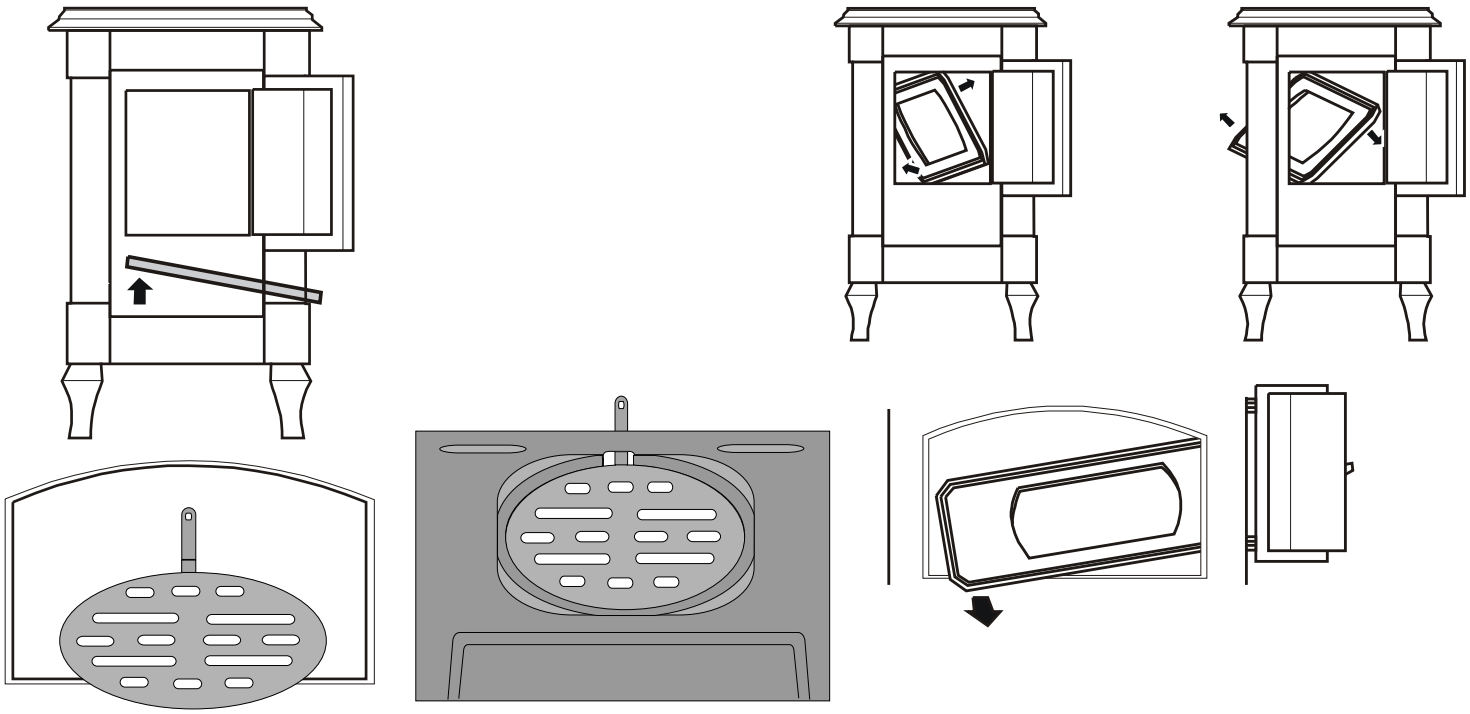
Step 6 Removing Grate Frame

Remove grate frame. Lift rear edge of grate frame. Lift frame move to the right through side door then remove through front door.

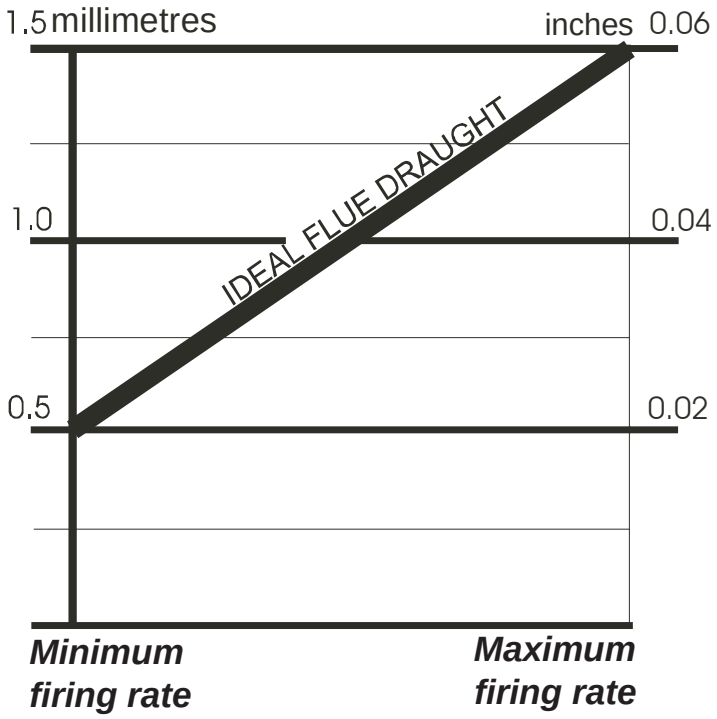


Step 5 Removing Grate

Lift front of grate remove through front door.



Draught Requirements

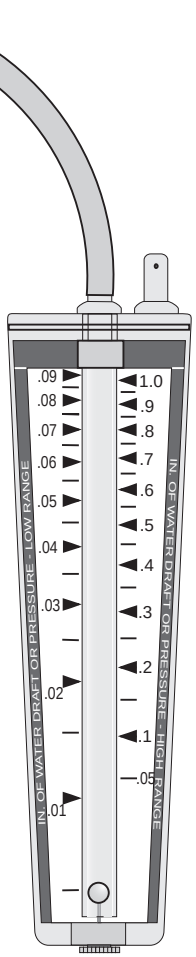


Draught measured with the air wash vent fully open and all other air supplies to the stove closed

Flue draught measured with the air wash vent fully open and all other air supplies to the fire closed.

Euroheat can supply the flue measurement gauges order number MS026.

Note this is not a water gauge used to measure gas pressure.



The negative pressure created within the combustion chamber of the stove must be measured using a test hole drilled into the flue, as close to the stove as possible and before any draught stabilizer that may be fitted to the flue.
To ensure a constant air inlet size the readings should be taken with both the grate and the thermostatically controlled air inlet to the stove shut, and the secondary air-wash inlet fully open.

A reading should be taken before the stove is lit to identify any possible problems which may be caused by air being drawn down the flue by other heating appliances fitted with a flue, extraction fans, etc.. These should be dealt with before lighting the stove.

Once lit, the stove and flue should be allowed to warm thoroughly before letting the fire burn at a low setting. While taking the flue draught reading, all air entries to the combustion chamber of the stove should be closed except the secondary air-wash shutter, which should be fully open. The draught measurement should read approximately 0.5mm wg.

The stove should now be made to burn at its maximum output and another draught measurement taken, again closing all air supplies to the stove other than the secondary air-wash shutter. The draught reading when the burner is operating at its maximum setting should be approximately 1.5mm. wg.

A flue draught which is too low will result in the stove being difficult to light, responding only slowly to demands for increased output and unable to reach its full heating output.
Flue draught which is too high will make control of the fire difficult, and makes it possible to over fire the stove, which can seriously damage it. In this instance a flue draught stabiliser may need to be fitted.

The installation manual should be consulted if the flue draught pressure readings are incorrect.

Commissioning Check List [X] Mark box when completed

Inspect the door and glass seals and ensure all handle latches are adjusted correctly, procedure in the operating instructions.

☐

Check baffles are installed correctly and that the riddling mechanism is operating.

☐

Ensure that the fire responds to the operation of the controls and that there are no visible emissions of the combustion products into the room.

☐

Check the flue draught is within the parameters within these instructions. If not fit a suitable flue stabiliser.

☐

Instruct the user on the use of the tools, operation of the appliance and the summer shut down procedure. Information in the operating instructions.

☐

Instruct the user never to operate the stove with the furnace door open and that the user is aware of the requirement of a suitable fire guard where children, the old or infirm may come into contact with the appliance.

☐

Hand over the installation instructions, operating instructions and completed warranty form to the user. Remind the owner to return the warranty form for registration.

☐

Complete the Stoves Registration Form and Pass to User for Registration

Euroheat, Efel and Nestor Martin have a policy of continual research and development and reserve the right to modify its appliances without prior notice.
We make every effort to ensure that the information provided in this document is correct and accurate at the time of printing. Continued updates occur to adapt documents to customer requirements and appliance changes. For the latest editions of all Euroheat documentation visit our web site
www.euroheat.co.uk.
We would request that you inform Euroheat of information which you feel is not provided in this document which would assist other users in the future.
The Euroheat Technical Team

Welcome to the world of real Stoves

Euroheat Technical Team