



aire 300, 500 & 700

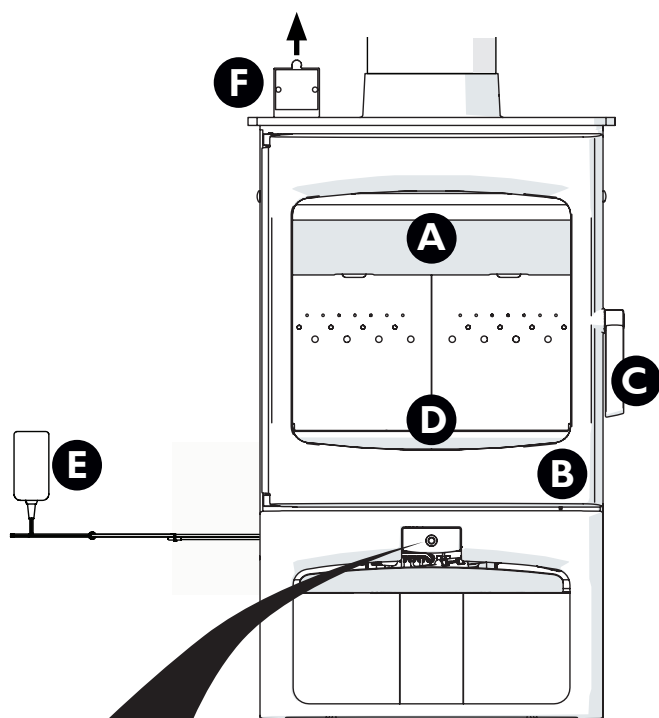
charnwood

Operating & Installation Instructions

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QUICK GUIDE



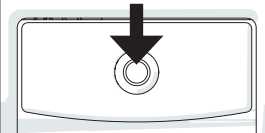
- A Throat plate**
Improves efficiency of stove by slowing down flue gases
- B Door**
Keep closed when stove is in use
- C Door handle**
Pull to open
- D Front fence**
Ensure fuel does not protrude beyond front fence
- E 9V AC/DC power adapter**
Supplies power to the air control
- F Serial label**
Lift to view / scan QR code

AIR CONTROL

Blue light - Automatic mode
Green light - Room Temperature mode
Red light - Test mode

The intensity of the light displayed indicates the burn level. There are 5 levels in each mode, indicated by increasing light intensity.

PRESS



MAINTENANCE AND CLEANING

GLASS

Wipe with damp, lint free cloth. Any stubborn deposits on the glass may be removed with a proprietary stove glass cleaner or ceramic hob cleaner.

THROAT PLATE & UPPER BAFFLE

Take down once a month and clean. Sweep sooty deposits into fire.

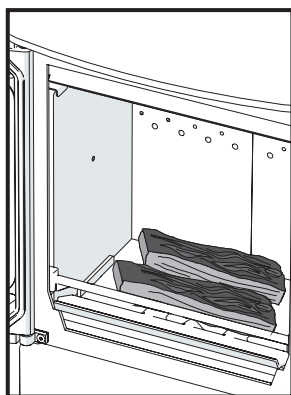
CHIMNEY

Have chimney swept twice a year. Chimney can be swept through stove. Avoid damaging the temperature sensor, located on the right hand side at the back of the stove, above the brick throat plate.

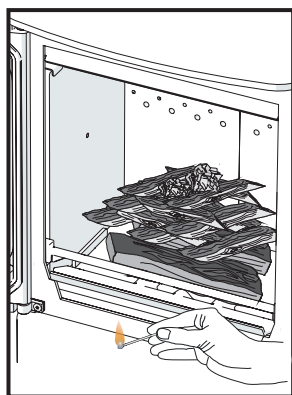
SERVICING

Stove should be serviced by a professional at least once a year.

LIGHTING AND CONTROLLING THE FIRE



Place two dry, well seasoned logs horizontally left to right on the base of the firebox / on top of the primary air ducts.



Build a stack of 6-8 kindling sticks on top of the logs and place a firelighter amongst the sticks. Leave space between the sticks to allow the air to circulate around and through them. Light the firelighter. Close the door.



After the initial fuel load has burnt down and a bed of hot embers has been established place one or two logs on top of the embers and shut the door.

Suitable fuel for your Charnwood:

Wood logs

Unsuitable fuels:

Petroleum coke

Liquid fuel

Household waste

Coal singles

Small nuts or coal dust

Wet or unseasoned wood

OPERATING INSTRUCTIONS



Congratulations on becoming the owner of a Charnwood Aire Intelligent stove. **It is very important that you read and understand these instructions before using the stove.** All local regulations and, if applicable, national and European standards must be complied with when operating this appliance.

Before lighting the stove check with the installer that the work and checks described in the installation instructions have been carried out correctly and that the chimney has been swept, is sound and free from any obstructions. **This stove is not suitable for use in a shared flue system.**

Remember that the stove will be hot and that it is made from hard materials – ensure that you have good balance before operating the fire. Always use the gloves provided when re-fuelling and when removing ash.

Do not use or store any flammable liquids, substances or gases near the stove whilst it is in use as this could result in explosion or flash ignition.

When using the stove in situations where children, aged and/or infirm persons are present a fire-guard must be used to prevent accidental contact with the stove. The fire-guard should be manufactured in accordance with BS 8423:2002.

This stove is suitable for intermittent operation.

The Clean Air Act 1993 and Smoke Control Areas:

Under the Clean Air Act local authorities may declare the whole or part of the district of the authority to be a smoke control area. It is an offence to emit smoke from a chimney of a building, from a furnace or from any fixed boiler if located in a designated smoke control area. It is also an offence to acquire an “unauthorised fuel” for use within a smoke control area unless it is used in an “exempt” appliance (“exempted” from the controls which generally apply in the smoke control area).

In England appliances are exempted by publication on a list by the Secretary of State in accordance with changes made to sections 20 and 21 of the Clean Air Act 1993 by section 15 of the Deregulation Act 2015. Similarly in Scotland appliances are exempted by publication on a list by Scottish Ministers under section 50 of the Regulatory Reform (Scotland) Act 2014.

In Wales and Northern Ireland these are authorised by regulations made by Welsh Ministers and by the Department of the Environment respectively.

Further information on the requirements of the Clean Air Act can be found here at:

<https://www.gov.uk/smoke-control-area-rules>

Your local authority is responsible for implementing the Clean Air Act 1993 including designation and supervision of smoke control areas and you can contact them for details of Clean Air Act requirements.

The Aire 300, 500 and 700 have been recommended as suitable for use in smoke controlled areas when burning wood logs. The Aire 300, 500 and 700 have an automated control system that does not allow the air control to fully shut down until the fire has reached the char stage where smoke is no longer produced.

WOOD LOGS

Only dry, well seasoned wood should be burnt on this appliance as burning wet unseasoned wood will give rise to heavy tar deposits in the stove, on the glass and within the chimney. For the same reason hard woods (such as Ash, Beech and Oak) are better than soft woods (such as Pine and Spruce). Burning wet unseasoned wood will also result in considerably reduced outputs. The wood should be cut and split and then left to season in a well ventilated dry place for at least one but preferably two years before use.

Recommended fuel load:

Aire 300 - 1 x 200mm (8in) long x 80mm (3in) diameter log

Aire 500 - 2 x 180mm (7in) long x 75mm (3in) diameter logs

Aire 700 - 2 x 200mm (8in) long x 70mm (3in) diameter logs

Max log length:

Aire 300 - 250mm (10in)

Aire 500 - 340mm (13in)

Aire 700 - 400mm (15in)

Log moisture content:

Less than 20% (*ideally less than 17%*)

This stove is not designed to burn household waste.

HETAS Ltd Appliance Approval only covers the use of Wood Logs on this appliance.

DOOR OPERATION

It is recommended that a heat proof glove (supplied with the stove) is worn when operating the door handle. Do not slam or strike the door.

OPERATING INSTRUCTIONS



Take care not to touch the door as it will be hot when the fire is burning. Pull the door handle to open, and push to close. For normal operation, the door must be closed. Operation with the door open can cause excess smoke.

DO NOT USE THIS STOVE IF THE DOOR GLASS IS BROKEN.

LIGHTING

Before lighting, ensure that the stove is connected to a power supply via the 9V AC/DC adapter which connects to the DC extension cable at the back of the stove. Ensure that the stove is in automatic mode (blue light on air control). On initial lighting, the stove may smoke and give off an odour as the silicon paint with which the firebox is painted reacts to the heat. This is normal and will cease after a short time, but meanwhile the room should be kept well ventilated.

At first only light a small fire and burn it slowly for two hours to allow any residual moisture in the chimney to evaporate.

First, start by placing two dry, well seasoned logs onto the base of the stove/ on top of the primary air ducts. On top of this build a stack of 6-8 kindling sticks, this can be in grid shape or a pyramid, be sure to leave a space between the pieces to allow the air to circulate around and through them. Ensure that the assembled wood does not protrude over the fuel retainer. Place a natural fire-lighter amongst the kindling near the top, light the fire-lighter and close the stove door. In Room Temperature or Automatic modes, the stove automatically ensures thorough lighting and then transitions to the burn rate set by the user on the app or the air control on the stove itself. The user can leave the stove unattended during lighting if this method is used. A stove can reasonably be expected to make some ticking noises during heating and cooling cycles caused by metal expansion and contraction in the firebox, this is entirely normal and will not cause damage to the stove or adversely affect its performance. It is also reasonable to expect to hear the air control motors during normal operation. Do not build the fire too close to the glass.

CONTROLLING THE FIRE

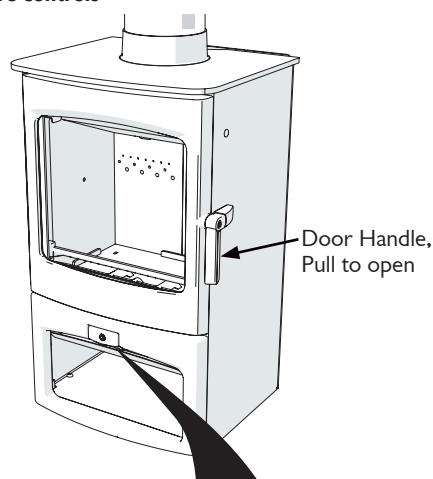
There are two ways to control the fire - using the air control button on the stove (see Fig.1) or by using the app (see Fig.2) . The air control button on the stove allows the user access to step through the 5 intensity burn levels of the Automatic mode, the 5 preset temperatures in Room Temperature Mode and the 5 preset manual settings in Test Mode, whereas the App offers intermediate settings in Room Temperature or Test modes as well as oversight of performance data. The rate of burning and hence the output is controlled by the burn intensity (see Fig.1) or the mobile device app

(see Fig.2).

The stove has two main modes of control - Automatic and Room Temperature Mode. In Automatic Mode there are five intensity levels and the stove will give the most efficient and clean burn at each level over the burning cycle (intensity level 3 gives a pleasing fire for most users). In Room Temperature mode, the stove selects the most appropriate intensity level to achieve the set room temperature. Test Mode allows the user to vary the air control from fully closed to fully open like a manually controlled stove. Test Mode should be used when servicing the stove in order to verify the operation of the air controls. When operating in Test Mode the stove will revert to Automatic Mode the next time the stove door is opened.

When running in Automatic Mode the air control will endeavour to

Fig. 1 Stove controls



CONTROLLING THE FIRE AT THE STOVE

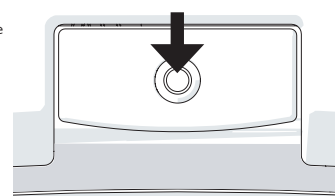
Blue light - Automatic mode
Green light - Room Temperature Mode
Red Light - Test Mode

A long press will switch between modes

The intensity of the light displayed indicates the burn level. There are 5 levels in each mode, indicated by increasing light intensity.

A short press will index through the intensity levels

PRESS



AUTOMATIC MODE	ROOM TEMP MODE	TEST MODE
Blue light	Green Light	Red Light
Intensity 1	16 °C / 61°F	Shut Down
Intensity 2	20 °C / 68°F	25%
Intensity 3 (default)	23 °C / 73°F	50%
Intensity 4	26 °C / 79°F	75%
Intensity 5	30 °C / 86°F	100%

OPERATING INSTRUCTIONS



burn the fuel loaded in the best way possible and so the output will vary depending on how much fuel is loaded. The typical burn cycle is Lighting, where the fuel is quickly lit and brought under control, Early Burn, where the burn is stabilised, before entering Steady State Efficient where a sustained clean burn at the user defined setting is achieved. Finally, in Char, the control system maintains a healthy firebed for as long as possible before refuelling occurs and the cycle restarts. The stage of the burn is graphically represented by the quadrant line on the inside of the thumb wheel on the control screen of the app and explicitly stated on the dashboard screen.

The stove mounted air control button is easily accessible and the first short press (less than 1.5 secs) will illuminate the button in a colour denoting the current mode and at a brightness that represents the current intensity level out of the 5 different levels available (see table in Fig. 1). Subsequent short presses of the button, whilst it is illuminated, loop through the 5 levels in the current mode. A long press (more than 1.5 secs) loops through the 3 modes, at the lowest intensity level in the new mode. An extra long press (more than 5 secs) allows selection of the two emergency modes, denoted by a flashing red light. A short press is used to choose either red flashing light (complete air shutdown in the event of a chimney fire) or green flashing light (nominal air setting allowing manual operation during a power cut). A long press then selects the chosen emergency mode and it is recommended that the power to the stove is turned off after approximately 30 seconds, when the air controls will have reached their appropriate setting, where they remain until normal operation is resumed by cycling the main power.

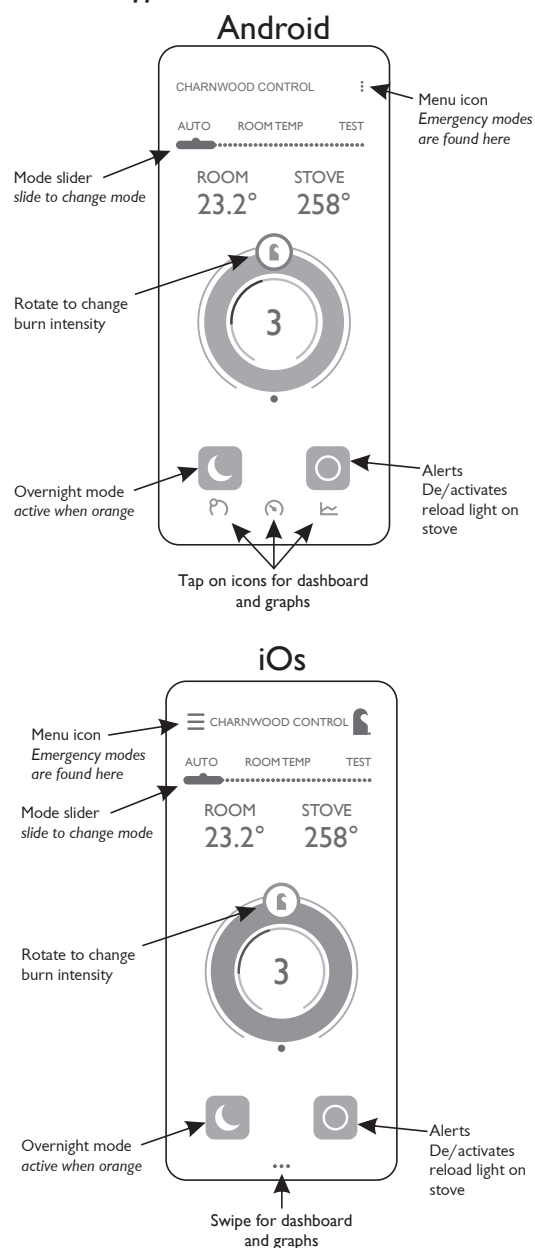
At other times, the light on the air control can show that the door is open (flashing red), it is time for a fuel reload (pulsing blue), a factory reset has been invoked by depressing the button before and during power up (flashing white light) or a mobile device is trying to pair with the stove (flashing blue light).

CONTROLLING THE FIRE DURING A POWER CUT

If the power is cut, the air controls maintain their current position. In order to ensure that an adequate combustion can be achieved until power is restored, the DC adapter can be separated from the 9V AC/DC adapter at the intermediate jack connection (between the stove and the power outlet) and replaced with the 9V battery power supply (battery not supplied with stove - see page 19 / Fig.19). This will supply up to 30 minutes of operation, however it is recommended that it is used to put the stove into the power cut mode described above, where the air controls will adopt a position suited to a nominal 3.9kW (Aire 300), 5.6kW (Aire 500) or 6.6kW

(Aire 700) burn. The battery power supply may then be removed and the stove used with the air controls at their fixed position. To initiate good combustion after reloading with logs it may be necessary to crack the door open for a few minutes until the fuel is burning sufficiently to maintain a flame.

Fig.2 Charnwood App



CONTROLLING THE FIRE WITH THE APP

The stove can also be controlled by the Charnwood app, which gives more refined controls and feedback to the user. This can be



downloaded from the Apple App or Google Play stores and more details about its functions can be found on the Charnwood website.

CONNECTING THE DEVICE

The device communicates with the stove via Bluetooth, so it is necessary to pair the stove with the device in order to use the app. A further option to connect the stove to your home WiFi router enables the graphing data to be viewed on the device and also gives the ability to update the stove firmware if Charnwood issue new programs through the website.

Up to three devices can be connected at any one time. Paired connections are stored on the stove but new connections will replace the oldest stored connections that are not currently in use (These devices will need to re-pair on connection).

Initial pairing is made by pressing 'Setup Stove'. Lift the serial label plate at the back left hand corner of the stove and scan the QR code. Press OK after a successful QR scan. Rename the stove, select °C or °F and set the number of days that the stove performance data will be retained on the device. Press 'Next'. Near the stove, click 'Connect' and press stove button when it flashes blue, then press 'Pair' on the pop-up window that appears on the device. On iOS the Bluetooth icon should light blue, on the Android the dot between the buttons should turn orange; click 'Next' to complete the bluetooth pairing process. Please note that the stove requires a 2.4GHz network and will not work over a 5GHz network. If the WiFi capabilities are required, and have not already been set up on the stove, click 'Yes'. Firstly, connect the device to the same network that the stove will be connected to, then enter the Network Name and Router Password into the app, press 'Save' and then 'OK'. If successful connection is made to the router, the WiFi icon in the top right hand side of the screen will illuminate. Press 'close' and return to the Main Menu, where the 'Control Stove' button will allow the user to take control. The orange mode slider is used to change between the 3 Modes.

Auto Mode – User defines burn intensity (1-5) once good combustion has been established. The stove controls the air to maximise the efficiency and minimise the emissions and once it has ensured that the fuel is properly lit, it will burn at the rate defined by the user (1 – 5).

Room Temp Mode – User defines a set room temperature (61– 90° F/16 – 30°C) that the stove tries to achieve once good combustion has been established.

The Overnight mode button is active when orange. In this mode, the stove will shut down to preserve char firebed for as long as

possible, once the fire is no longer producing smoke. The stove returns to its original mode when stove is reloaded. If the Alerts button is activated, the light on the stove pulses blue when it is time to reload. The stove title shows which stove the App is currently communicating with.

The room temperature displayed in the top left of the screen is actually measured from the sensor attached to the DC extension cable behind the stove. The room temperature at the sensor may be a little different than the room at a distance from the stove, however the set temperature is made in relation to this temperature, which allows the user to make an informed choice (see page 10/ Fig. 3).

The stove temperature displayed in the top right of the screen is the firebox temperature in the stove and indicates how hot it is running.

When the door is open, an icon appears at the bottom of the screen indicating that the door is open. The button on the stove will also flash red.

When the fire needs refuelling, a log icon flashes in between the overnight and alert buttons and this disappears upon refuelling.

To switch from the Control Screen (see Fig. 2) swipe left on iOS, or use the icon buttons at the bottom of the screen on Android. This will give access to the dashboard and graphing information. The menu icon at the top of the screen can be used to access the Emergency Modes and other app functions that are described on the Charnwood website.

REFUELLING

Logs should be evenly distributed and are best placed from side to side, but not touching either side of the firebox or the glass in the door. Logs must not be loaded above the bottom row of holes in the back firebricks. **The maximum amount of fuel specified in this manual should not be exceeded, overloading can cause excess smoke.** It is best to refuel onto a hot bed of embers and the App will notify you when this is required. Automatic and Room Temperature Modes will keep a char fire-bed active for as long as possible. In normal operation the stove door should be shut immediately after refuelling and the stove will light the fuel. If there is insufficient burning material in the fire-bed to light a new fuel charge, excessive smoke emission can occur. Refuelling must be carried out onto a sufficient quantity of glowing embers so that the new fuel charge will ignite in a reasonable period. If there are too few embers in the fire bed add suitable kindling to prevent excess smoke.

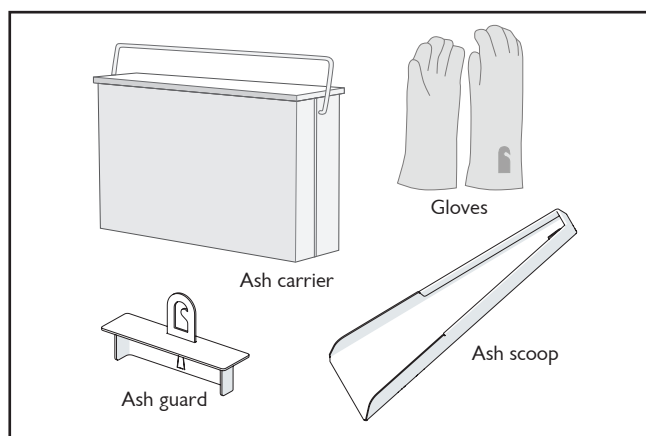
OPERATING INSTRUCTIONS



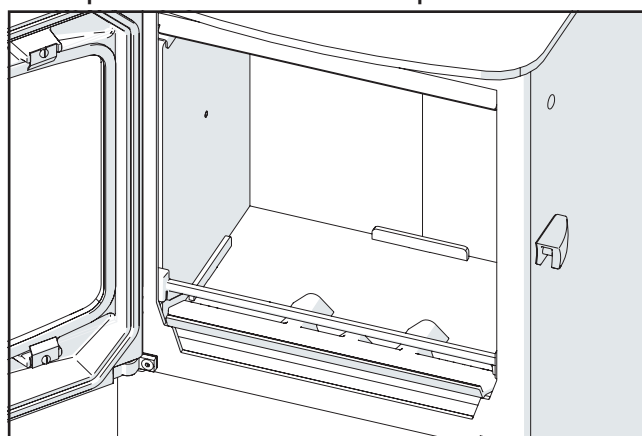
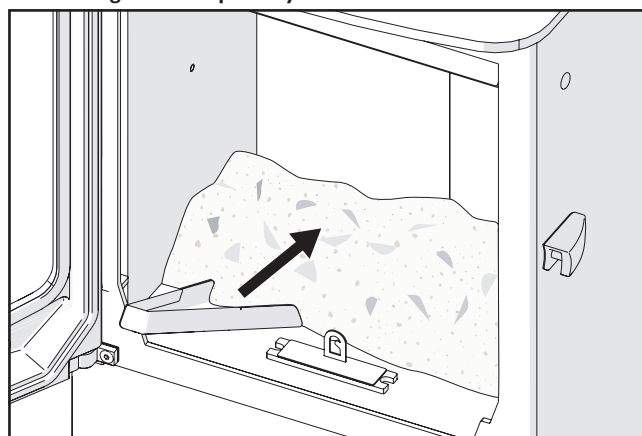
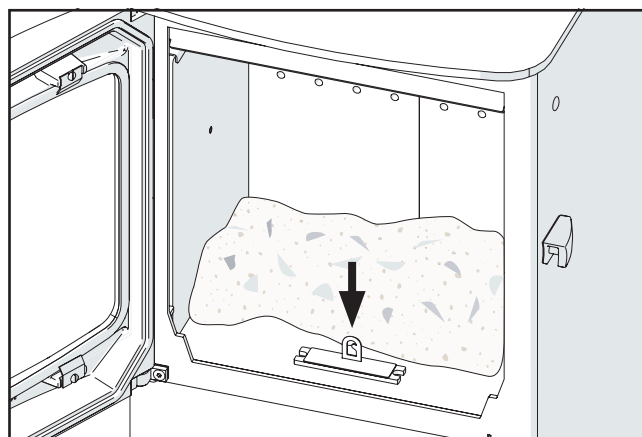
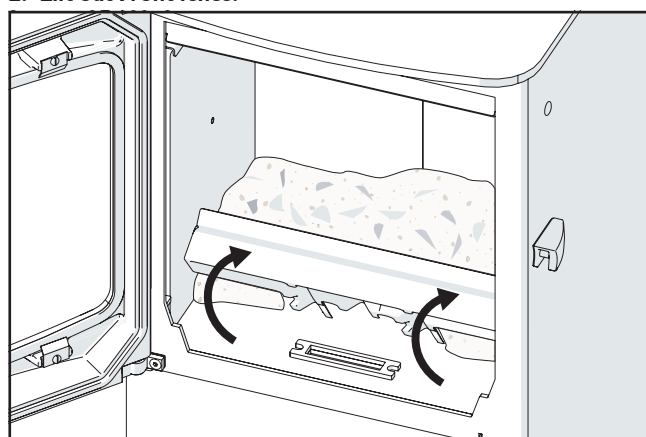
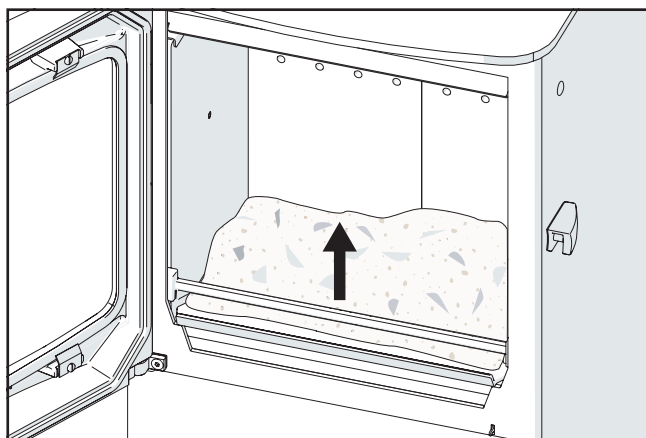
ASH CLEARANCE

Before removing ash ensure that it has cooled down. Please avoid emptying hot ash into plastic liners or bins. Use gloves.

When removing ash from the Aire 300, 500 or 700 it is particularly important to avoid dropping ash into the primary air outlet located under the ash retainer. Please use the Ash guard provided and follow the steps below.



1. Select tools.



Ashes should be placed outside in a metal container with a tight fitting lid. The closed container of ashes should be placed on a non-combustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained outside in the closed container until all cinders have thoroughly cooled. To make ash disposal easier there is a special ash container available - the Charnwood ash carrier. This may be purchased from your supplier or, in case of difficulty, from Charnwood.

REDUCED BURNING

For reduced burning, the fire door must be closed. Automatic mode should be selected and the burn rate set at level 1. In addition, the overnight button on the App should be active. This will ensure that once the fuel has thoroughly lit, it will burn steadily and slowly to reduce smoke emissions and then maximise the time for which the char fire-bed is active, before shutting down further to maintain an active fire-bed for as long as possible.

MAINTENANCE

Cleaning

The stove is finished with a high temperature paint which will withstand the temperatures encountered in normal use. This may be cleaned with a damp lint-free cloth when the stove is cold; do not clean the stove when it is hot. Should re-painting become necessary, high temperature paints are available from your supplier or from stove shops.

Cleaning the Glass

Most deposits on the glass will be burnt off simply by running the stove. If it becomes necessary to clean the glass then allow the stove to cool before opening the door, do not clean when hot. Clean the glass using a damp cloth and then wipe over with a dry cloth. Any stubborn deposits on the glass may be removed with a proprietary stove glass cleaner or ceramic hob cleaner. Do not use abrasive cleaners or pads as these can scratch the surface which will weaken the glass and cause premature failure.

When Not in Use

If the fire is going to be out of use for a long period (for instance in the summer) then to prevent condensation, and hence corrosion, open the door, then turn off the power and turn it back on again, wait 30 seconds whilst the motors move, then turn off the power. The fire door should be left ajar. It is also advisable to sweep the chimney and clean out the fire. After long periods where the fire has been out of use, the chimney and appliance flue-ways should be cleaned before lighting.

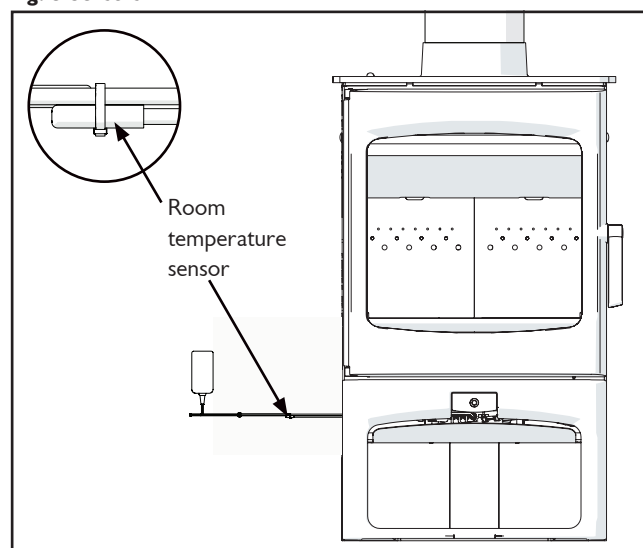
Door Seals

For the fire to operate correctly it is important that the door seals are in good condition. Check that they do not become worn or frayed and replace them when necessary.

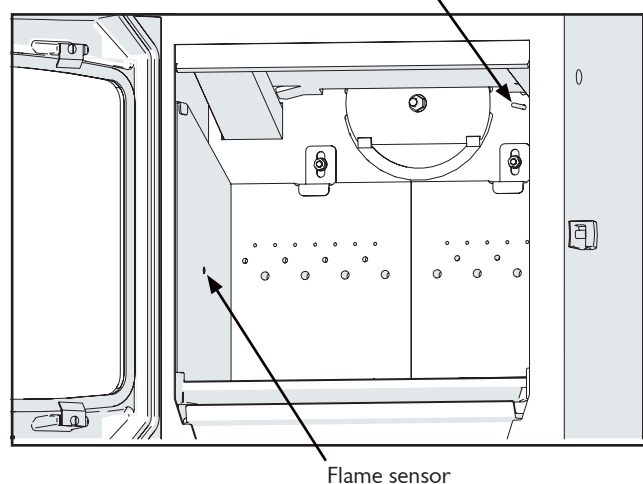
Servicing

It is recommended that the fire is serviced once a year to keep it in first class working order. After cleaning out the firebox thoroughly, check that all internal parts are in good working order, replacing any parts that are beginning to show signs of wear. The following simple checks verify that the electronic control system is working. With the app connected, check that the room temperature changes when you hold the chrome sensor attached to the DC extension cable behind the stove (see Fig. 3). If the throat plate bricks are removed (see Fig 3), the stove temperature sensor can be seen protruding 50mm inside the firebox on the right hand side at the back (the sensor is positioned higher up on the Aire 300). The stove temperature displayed on the device should change when the sensor is held for a minute. With the app on the Dashboard screen, shine the light of a torch, halogen if possible, directly into the flame sensor, in the glass lens at the centre of the left hand side firebrick; over a period of a

Fig. 3 Sensors



Stove temperature sensor (positioned higher on Aire 300)



minute, the flame intensity indicator should increase. Finally, switch the stove off and back on again, listening for the hum of the motors calibrating and verifying that no error message appears in the app. Check that the door seals are in good condition and that the door seals correctly. A servicing guide is available on request. Repairs or modifications may only be carried out by the Manufacturer or their approved agents.

USE ONLY GENUINE CHARNWOOD REPLACEMENT PARTS, DO NOT USE SUBSTITUTE MATERIALS.

CREOSOTE FORMATION AND NEED FOR REMOVAL

When wood is burned slowly, it produces tar and other organic vapours, which combine with expelled moisture to form creosote. The creosote vapours condense in the relatively cool chimney flue of a slow-burning fire. As a result, creosote residue accumulates on the flue lining. If the creosote is allowed to build up excessively it can ignite and make an extremely hot fire. This can cause damage to the chimney and supporting structure.

The chimney connector and chimney should be inspected at least once every two months during the heating season to determine if a creosote build up has occurred.

If creosote has accumulated (3mm, (1/8in.) or more) it should be removed to reduce the risk of a chimney fire.

Establish a routine for the fuel, wood burner and firing technique. Check daily for creosote build-up until experience shows how often you need to clean to be safe. Be aware that the hotter the fire the less creosote is deposited, and weekly cleaning may be necessary in mild weather even though monthly cleaning may be enough in the coldest months. Contact your local municipal or provincial fire authority for information on how to handle a chimney fire. Have a clearly understood plan to handle a chimney fire - see Emergency Modes description (page 13).

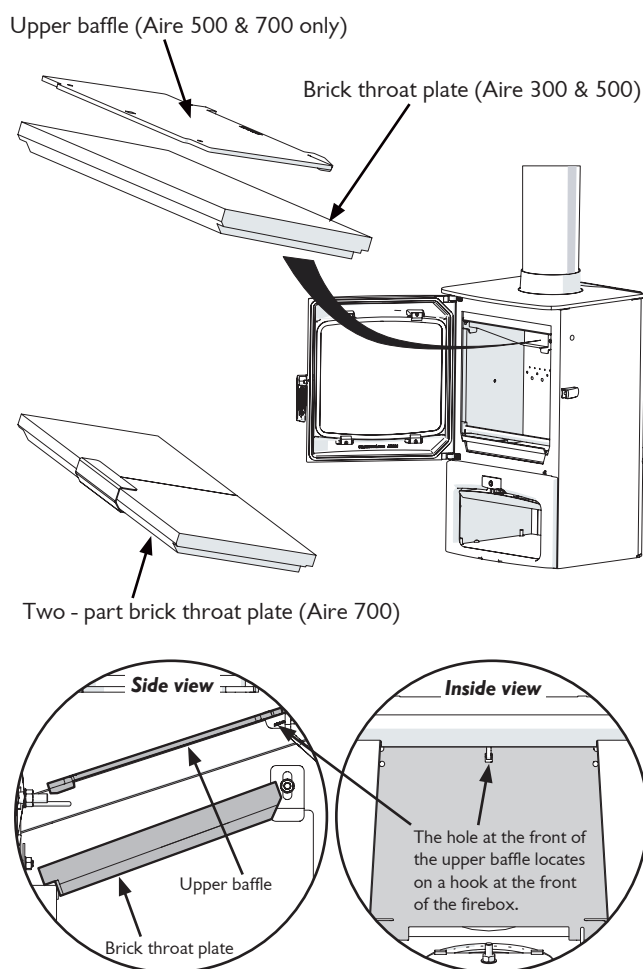
THROAT PLATE AND FLUEWAY CLEANING

It is important that the throat plate and all the stove flue-ways are kept clean in order to prevent potentially dangerous fume emission. They should be cleaned at least monthly, and more frequently if necessary. It is necessary to let the fire burn out and for the stove to be cold to carry out these operations.

The brick throat plate is made up of one brick (Aire 300 & Aire 500) or two bricks (Aire 700). The Aire 700 throat plate has a bracket

that slides over the front and holds the two bricks together (Fig. 4/5).

Fig. 4. Throat Plate Location



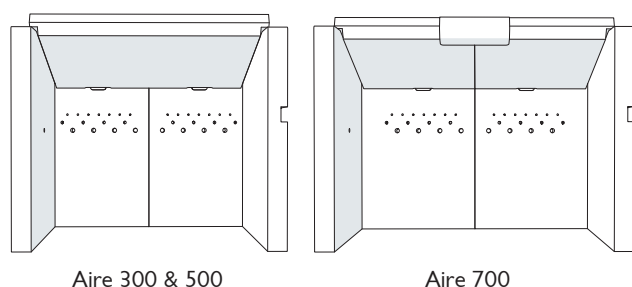
To remove the Aire 300/ Aire 500 throat plate brick gently lift and move it to the side then tilt down into the fire. For the Aire 700, first carefully remove the joining bracket between the bricks and then lift the two pieces down from the top of the side/ back bricks. Sweep any sooty deposits from the top of the throat plate into the fire.

Lift up the upper baffle plate (Aire 500 & 700 only) so the hole clears the hook at the front of the firebox, slide to the left or the right and tilt down. Clean any deposits. (See Fig. 4/5.) The upper baffle plate is positioned on top of the air tubes in the top of the firebox and is held in place by a hook at the front.

To re-fit the throat plate bricks (Aire 700), fit each half so that they rest on the side and back bricks, then, making sure the two halves are fitted closely together slide the joining clip onto the front edge

making sure that it is central on the join. The Aire 300/ Aire 500 throat plate brick is fitted by tilting it to the right or left so that one side is above a side fire brick, move it further to the side and then bring up the lower side and rest it on top of the opposite side brick. Slide the throat plate brick back so that it rests on both side bricks and the back bricks (see Fig 5).

Fig. 5. Brick throat plate fitted correctly



CHIMNEY SWEEPING

Where the chimney previously served as an open fire, it is possible that the higher flue gas temperature from a stove may loosen soot deposits with the consequent risk of flue blockage. It is therefore recommended that the chimney be swept a second time within a month of regular use after installation.

The chimney should be swept at least twice a year. Where the top outlet or vertical rear flue connector is used it will generally be possible to sweep the chimney through the appliance. Be careful not to damage the stove temperature sensor that protrudes 50mm into the back of the firebox on the right hand side when sweeping the chimney.

First remove the front fence and ash retainer and fit the ash guard into the primary air outlet (see page 9). **Fitting the ash guard is essential to avoid soot and other debris getting into the primary air outlet and damaging the air control.** Remove the brick throat plate and upper baffle (Aire 500 & 700 only). Sweep the chimney ensuring that soot is removed from all horizontal surfaces after sweeping.

In situations where it is not possible to sweep through the appliance the installer will have provided alternative means, such as a soot door. After sweeping the chimney the appliance flue outlet and the flue pipe connecting the stove to the chimney must be cleaned with a flue brush.

After clearing any soot from within the stove, replace the upper

baffle and throat plate (see Fig. 4/5), the fuel retainer and fence.

Different types of sweep's brushes are available to suit different flue-ways. For prefabricated insulated chimneys the manufacturers instructions with regard to sweeping should be consulted.

TROUBLE SHOOTING

Fire Will Not Burn

Check that:

- a) the air inlet is not obstructed in any way.
- b) chimneys and flue-ways are clear.
- c) a suitable fuel is being used.
- d) there is an adequate air supply into the room.
- e) an extractor fan is not fitted in the same room as the stove.
- f) there is sufficient draw in the chimney. Once the chimney is warm a draught reading of at least 1.25 mm (0.05 in.) water gauge (12Pa) should be obtained.
- g) The power to the stove control unit is plugged in and switched on. Check that the App can connect and receive stove and room temperatures, indicating that the control unit has power. Check that no error messages have been received by the app.
- h) The flame sensor is clean.
- i) The ash retainer is correctly fitted over the primary air inlet.

Blackening of Door Glass

Differences in chimney draughts mean that the best settings of the air controls will vary for different installations. A certain amount of experimentation may be required, however the following points should be noted and with a little care should enable the glass to be kept clean in most situations:

- a) Wet or unseasoned wood, logs overhanging the front fence or wood that is not positioned side to side will cause the glass to blacken.
- b) The airwash relies on a supply of heated air to keep the glass clean, therefore, when lighting the stove, provide sufficient kindling wood to adequately light the logs.
- c) When re-fuelling keep the fuel as far back from the front fence as possible, do not try to fit too much fuel into the firebox. Do not stack wood above the level of the tertiary air holes in the back firebox bricks.
- d) Do not completely close the air control (dial at 0) if burning in Test mode.

OPERATING INSTRUCTIONS

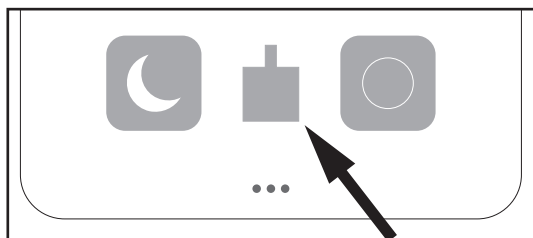


It is always more difficult to keep the glass clean when running the stove very slowly for long periods.

If blackening of the glass still occurs check that all flue connections and blanking plate are well sealed. It is also important that the chimney draw is sufficient and that it is not affected by down-draught. When the chimney is warm a draught reading of at least 1.25 mm (0.05 in.) water gauge (12Pa) should be obtained.

Overfire

If excessive flue gas temperatures are detected during combustion overfire will be activated and the app will display the following icon:



During this period the stove attempts to reduce the temperature to a suitable level before resuming normal operation. Overfire is often seen when the stove is over-fueled. Please see 'OPERATING INSTRUCTIONS' page 5&6 for recommended fuel load.

Fume Emission

Warning Note:

If properly installed and operated this appliance will not emit fumes. Occasional fumes from de-ashing and re-fuelling may occur. Persistent fume emission is potentially dangerous and must not be tolerated. If fume emission does persist, then the following immediate actions should be taken:

- Open doors and windows to ventilate the room and then leave the premises.**
- Let the fire out and safely dispose of the fuel from the appliance.**
- Check for flue or chimney blockage, and clean if required.**
- Do not attempt to re-light the fire until cause of fuming has been identified, if necessary seek professional advice.**

The most common cause of fume emission is flueway or chimney blockage. For your own safety these must be kept clean.

Fire blazing out of control

Check that:

- The door is tightly closed.
- The control unit is working by putting it into Test mode and adjusting the burn level to 0.
- A suitable fuel is being used.
- Door seals are intact.
- The control unit is plugged in, turned on and that the device is connected and there are no error messages displayed.

Chimney Fires

If the chimney is thoroughly and regularly swept, chimney fires should not occur. However, if a chimney fire does occur close the stove door, then press and hold the air control button until a flashing red light appears. Release the air control button and press again until the light goes out and the motors close all the air controls. Disconnect the power supply to the stove. Leave the stove until the fire has gone out. The chimney and flue-ways should then be cleaned. If the chimney fire does not go out when the above action is taken then the fire brigade should be called immediately. After a chimney fire the chimney should be carefully examined for any damage. Expert advice should be sought if necessary.

CO ALARM

Your installer should have fitted a CO alarm in the same room as the appliance. If the alarm sounds unexpectedly, follow the instructions given under "Warning Note" (page 13).

IF YOU NEED FURTHER HELP

If you need further help with your Charnwood then your Installer will be able to provide the answers to most questions. Your Local Charnwood Premier Dealer has a great deal of experience and will also be able to provide helpful advice. Further help is available from the Charnwood Customer Services department who will be pleased to give advice, if necessary.

DO NOT CONNECT TO OR USE IN CONJUNCTION WITH ANY AIR DISTRIBUTION DUCTWORK UNLESS SPECIFICALLY APPROVED FOR SUCH INSTALLATIONS



UNPACKING THE STOVE

The stove arrives bolted and strapped to a pallet. There must be adequate facilities for unloading and manoeuvring into position. First remove the banding and the cardboard wrapping, then remove the screws holding the fixing brackets to the pallet. Remove the pallet brackets from the stove by tilting it and using a 13mm spanner to remove the bolts. The pallet is intended to be cut up and used for kindling fuel. Replace the bolts to be used for levelling the stove. **The stove is a very heavy appliance, take care when handling.**

Do not install with the stove flame sensor in direct sun, halogen or incandescent light as these light sources can affect the operation of the controller.

HEALTH AND SAFETY PRECAUTIONS

The stove should be installed in compliance with local, national, and European standards. The requirements of the health and safety at work act must be met (UK).

Some types of fire cement are caustic and should not be allowed to come into contact with the skin. In case of contact wash with plenty of water.

If there is a possibility of disturbing any asbestos in the course of installation then appropriate protective equipment must be used.

If room air is used for combustion, then there should not be an extractor fan fitted in the same room as the stove as this can cause the appliance to emit fumes into the room.

There must be an adequate air supply into the room in which the appliance is installed to provide combustion air. For the Aire 700 the combustion air supply must be via a permanently open vent. A permanently open vent may be required for the Aire 300 and Aire 500 depending on air permeability. The requirement for minimum free area is partly dependent on the design and air permeability of the house. In older properties the air permeability will be above 5.0m³/(h.m²), but in some modern properties it may be less. The vent must be positioned such that it is not liable to blockage. Minimum areas to meet the guidelines in the Approved Document J for UK Building Regulations based on certificate AJ11-CPD-UK-2025, AJL11-CPD-UK-2025, AG11-CPD-UK-2025, AGL-CPD-UK-2025, AL11-CPD-2025 and ALL-CPD-2025 are given in the following table:

AIR PERMEABILITY m ³ /(h.m ²)	MINIMUM VENT AREA cm ² (in ²)		
	Aire 300	Aire 500	Aire 700
>5.0	No requirement	No requirement	9 (1.4)
<5.0	21.5 (3.3)	27.5 (4.3)	37.5 (5.8)

Alternatively a fixed ducted air supply method can be used. One end of the air supply ducting is connected to the stove and the other is terminated outside. The ducting must be a minimum 63mm dia, non-combustible, less than 5.5m long and must not have more than five 90° bends and two 45° elbows. It must be sleeved where it passes through the external wall. The inlet must be permanently open and the duct free of any constrictions. The inlet must have a suitable grill to prevent entry by vermin, and should be positioned so that blockage by leaves or other debris will be avoided. Ensure that rain or flood water will not enter the duct. A spillage test must be carried out during commissioning to verify adequate air supply for combustion.

External air supply kits are available, please contact Charnwood for more information.

This stove is capable of intermittent operation, and is not suitable for use in a shared flue system.

CO AND SMOKE ALARMS

Building regulations require that whenever a new or replacement fixed solid fuel or wood/biomass appliance is installed in a dwelling a carbon monoxide alarm must be fitted in the same room as the appliance. Further guidance on the installation of the carbon monoxide alarm is available in BS EN 50292:2002 and from the alarm manufacturer's instructions. Provision of an alarm must not be considered a substitute for either installing the appliance correctly or ensuring regular servicing and maintenance of the appliance and chimney system.

CHIMNEY

In order for the appliance to perform satisfactorily the chimney height must not be less than 4 metres measured vertically from the outlet of the stove to the top of the chimney. The internal dimensions of the chimney should preferably be 127mm (5 inch) - 150mm (6 inch) - Aire 300 or 150mm (6 inch) - 200 mm (8 inch) - Aire 500 / Aire 700 either square or round and **MUST NOT BE LESS THAN 127mm (5 inch) - Aire 300 or 150 mm (6 inch) - Aire 500 / Aire 700.**

If an existing chimney is to be used it must be swept and checked, it must be in good condition, free from cracks and blockages, and should not have an excessive cross sectional area. If it was previously used by 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 temperatures between the stove and the open fire. If you find that the chimney is in poor condition then expert advice should be sought regarding the necessity of having the chimney lined. If it is found necessary to line the chimney then a lining suitable for Solid Fuel must be used.

If there is no existing chimney then a prefabricated block chimney or a twin walled insulated stainless steel flue to BSEN 15287-1:2007 can be used either internally or externally. It might be appropriate to prove the chimney function to EN13384-2:2015+A1:2019. National installation and building regulations should be met, often T400 G is required.

Single wall flue pipe is suitable for connecting the stove to the chimney but is not suitable for using for the complete chimney. If it is found that there is excessive draw in the chimney then a draught stabiliser should be fitted.

It is important that there is sufficient draw in the chimney and that the chimney does not suffer from down-draught. When the chimney is warm the draw should be not less than 1.25mm (0.05") water gauge (12 Pa). If in doubt about the chimney seek expert advice.

HEARTH AND FIRE SURROUND

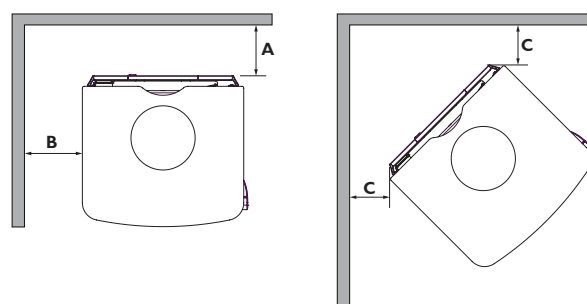
The stove must stand on a fireproof hearth and must not be situated closer than the minimum distance from combustible materials to the front, sides or rear above hearth level unless adequately fireproofed in accordance with local building regulations. For the Store Stand models a 12mm (1/2 inch) fireproof hearth is sufficient. Low Stand models require a constructional hearth due to the higher hearth temperatures that are generated. The positioning of the stove and the size of the hearth are governed by British building regulations for Class 1 appliances in the UK. These building regulations state that the hearth must extend in front of the stove by at least 225mm (9 inch) and to the sides of the stove by at least 150mm (6 inch). When the fire door is open, it extends beyond the front of the stove by 303mm - Aire 300, 380mm - Aire 500 and 448mm - Aire 700. See Fig. 6 and pages 35-41 for distance to combustible materials figures.

If in doubt as to the positioning of the stove, expert advice should be sought either from the supplier or the local building inspector. The fireplace must allow good circulation of air around the appliance to

ensure that maximum heat is transferred to the room and also to prevent the fireplace from overheating. A gap of 150mm (6 inch) each side and 300mm (12 inch) above the appliance should give sufficient air circulation. If a wooden mantelpiece or beam is used in the fireplace it should be a minimum of 750mm (29 1/2 inch) from the appliance. In some situations it may be necessary to shield the beam or mantelpiece to protect it. For non-combustible materials the distances above can be reduced within reason, provided there is sufficient space around the appliance for servicing access. Where possible, it is better to allow sufficient space, rather than relying on having to remove the stove for servicing.

In order for the fire to operate correctly and to allow for access, there must be an air gap behind the appliance of at least 50mm, but be aware that this distance will need to be greater in some cases to meet Building Regulation requirements.

Fig. 6. Distances to combustible materials



	A	B	C
Aire 300 single wall flue	180mm	280mm	
Aire 300 with insulated flue	100mm	300mm	180mm
Aire 500 single wall flue	250mm	350mm	
Aire 500 with insulated flue	150mm	350mm	190mm
Aire 700 single wall flue	350mm	350mm	
Aire 700 with insulated flue	150mm	350mm	150mm

The appliance should be installed on a floor with adequate load-bearing capacity. If an existing construction does not meet this requirement then please take suitable measures to achieve this. (e.g. load distributing plate.)

CONNECTIONS TO FLUES

The stove must be connected to the flue using flue pipe of the following size:

127mm (5 inch) diameter - Aire 300

INSTALLATION INSTRUCTIONS



150mm (6 inch) diameter - Aire 500 / Aire 700

This may be stainless steel, cast iron, or thick wall steel pipe. Straight lengths of Charnwood Pipe to match the stove are available if required. If using twin wall flue, the flue spigot must be shielded to protect exposed combustible material. This can be done with a shielded starter length of flue.

There are several ways of connecting the stove to the flue. These are illustrated in Figs. 7 to 10.

Fig. 7. Vertical register plate with bricked up fireplace

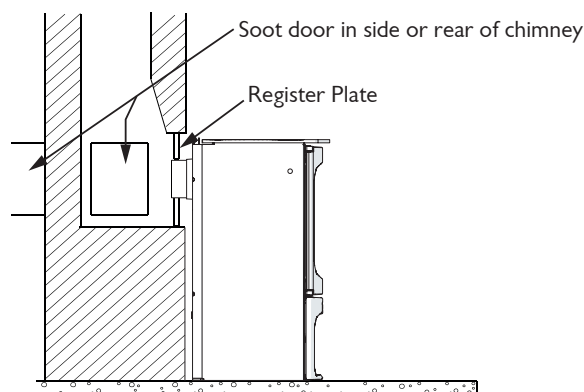


Fig. 8. Horizontal register plate with rear flue connection

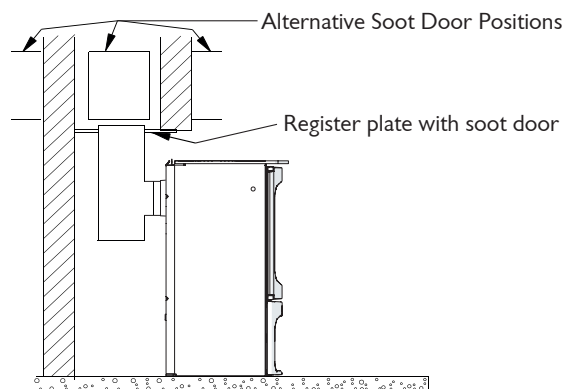


Fig. 9. Horizontal register plate with top flue connection

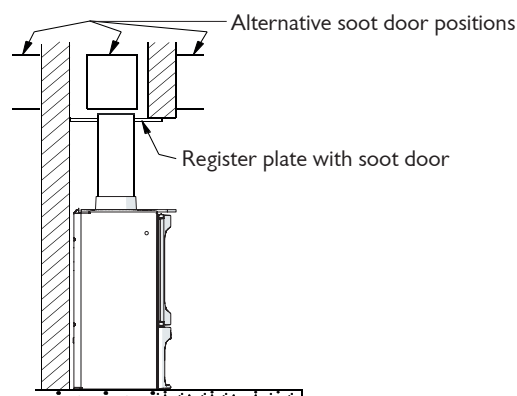
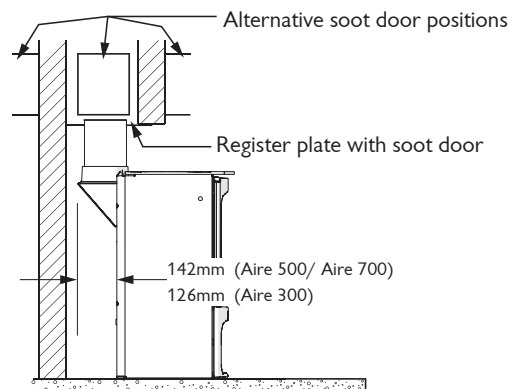


Fig. 10. Horizontal register plate with optional vertical rear flue adaptor

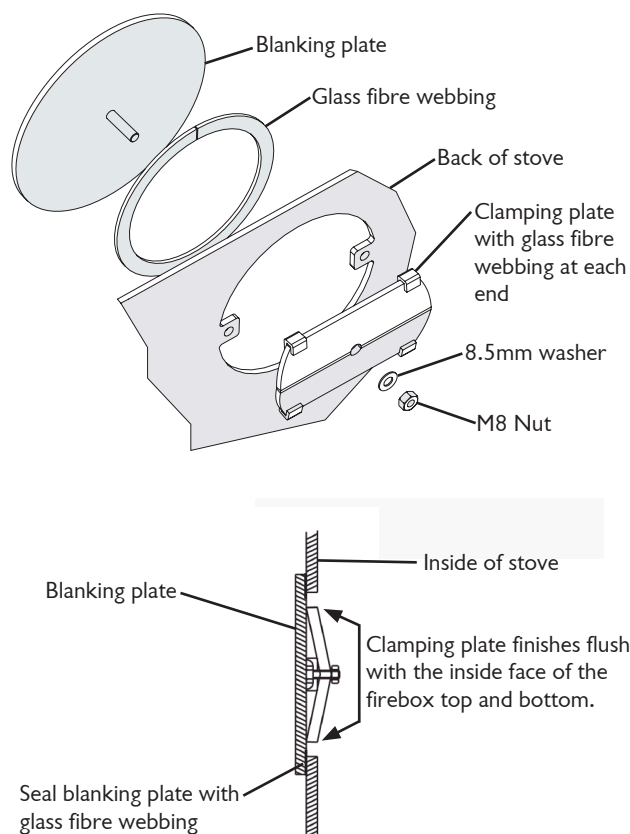


If the top flue connection or optional vertical rear flue adaptor are used then the chimney may be swept through the appliance.

Horizontal lengths of flue must be kept to a minimum and should not be longer in length than the flue diameter.

The stove comes with a blanking plate (See Fig. 11) fitted to the rear flue outlet. The seal for the rear outlet is a length of adhesive backed glass fibre webbing. This is applied to the flue collar or the

Fig. 11. Flue blanking plate



INSTALLATION INSTRUCTIONS



Vertical Rear Flue adapter for rear outlet installations. A top outlet connection is made by fitting the flue collar directly onto the stove top outlet using 10mm glass rope to seal the connection (see Fig 12).

All flue connections must be well sealed.

SOOT DOORS

It is possible to pass a 6 inch diameter (Aire 500/ Aire 700) or 5 inch diameter (Aire 300) sweeps brush through the appliance but in most rear outlet installations it will be necessary to have a soot door to enable the chimney to be swept. The optional vertical rear flue adaptor does allow the chimney to be swept through the stove. Soot doors may either be in the actual brickwork of the chimney or in the register plate. Various positions of soot doors are shown in Figs. 7 to 10.

Fig. 12. Top flue collar fitting

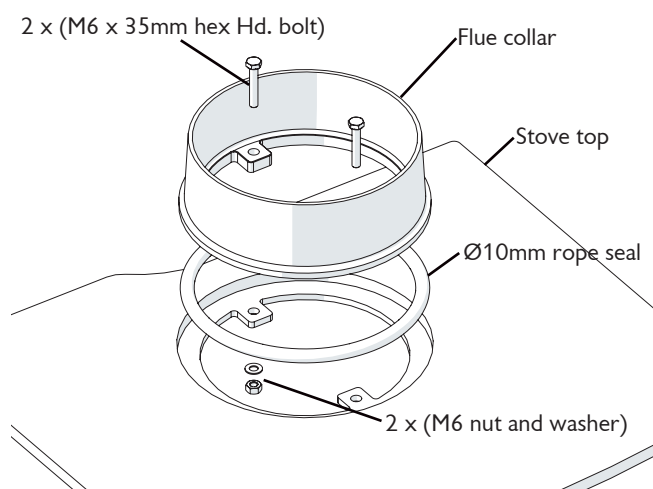
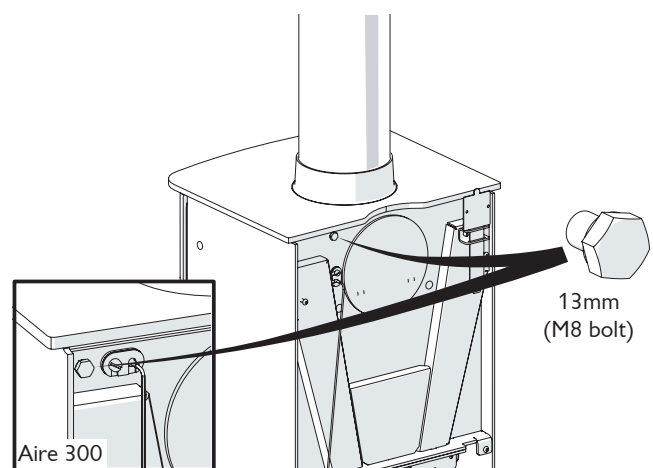


Fig. 13 Flue draught sampling point



PRE LIGHTING CHECK

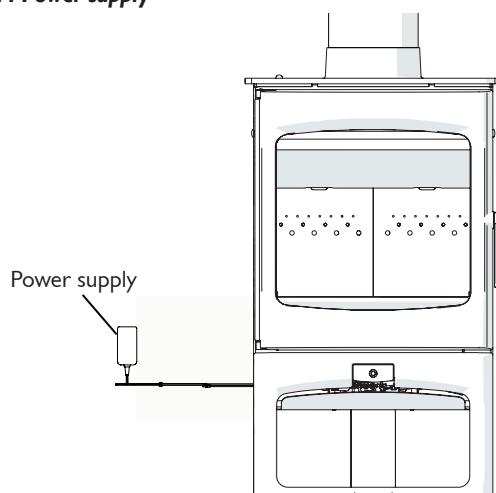
Ensure that upper baffle plate (Aire 500 and Aire 700) and the throat plate bricks are always fitted in the top of the appliance. The location and positioning of the brick throat plate and upper baffle is shown in Fig. 4 (page 11) and Fig. 5 (page 12).

Check that the ash retainer and front fence are fitted correctly and that the door closes properly.

COMMISSIONING

On completion of the installation allow a suitable period of time for any fire cement and mortar used in the installation to dry out before lighting the fire. Check to ensure that smoke and fumes are taken from the appliance up the chimney and emitted safely. Also check all joints and seals. On completion of the installation and commissioning

Fig. 14 Power supply



please leave the operating instructions with the customer and advise them on the use of the appliance.

Flue draught can be checked by removing the 13mm (M8) bolt behind the heatshield at the back of the stove on the right hand side. (Fig. 13). Make sure the bolt is replaced after draft test.

AIR CONTROL CONNECTIONS

On installing the stove, the 9V AC/DC power supply will need to be connected to the DC power extension lead at the back of the stove and then plugged into a power supply (See Fig. 14).

INSTALLATION INSTRUCTIONS



The power supply and extension lead should be routed to the power outlet at the same height or lower than the point at which it exits the appliance, preferably going straight back, away from the appliance, until outside the safe distance to combustible materials. Care should be taken that there is no risk of damage by hot ash or any other hazards. Local and national building standards must be respected regarding any electrical installations.

Other air control connections will already be made and should not be accessed unless there is a problem.

If necessary, to gain access to the air control connections loosen 2 x 4mm Allen bolts holding the heat shield, slide forward, tilt and remove carefully through the store stand opening - Aire 300, 500 and 700 Store Stand (Fig. 15). On the Aire 300, 500 and 700 Low Stand remove the cable tray by removing the 2 x 4mm Allen bolts (Fig 16).

Fig. 15 Store stand heat shield removal

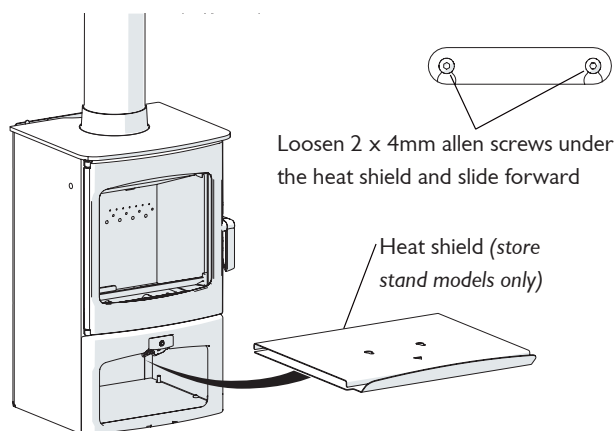
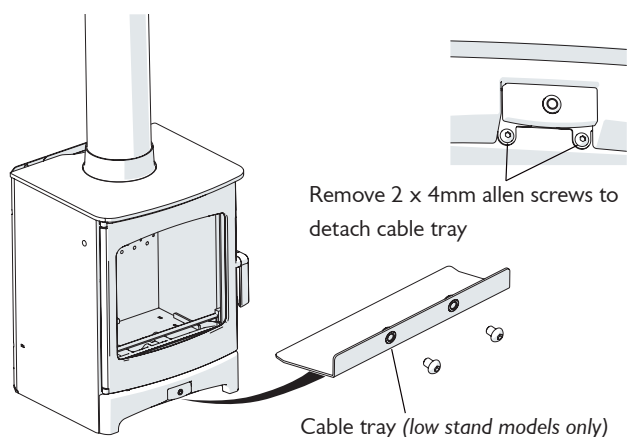


Fig. 16 Low stand cable tray removal



END OF LIFE CONSIDERATIONS.

UK & Europe

The Waste Electrical and Electronic Equipment (WEEE) Regulations 2013/2015 (update), Section 7b, states that the regulations do not apply if the electronics are 'specifically designed and installed as part

Fig. 17 Power and sensor plugs

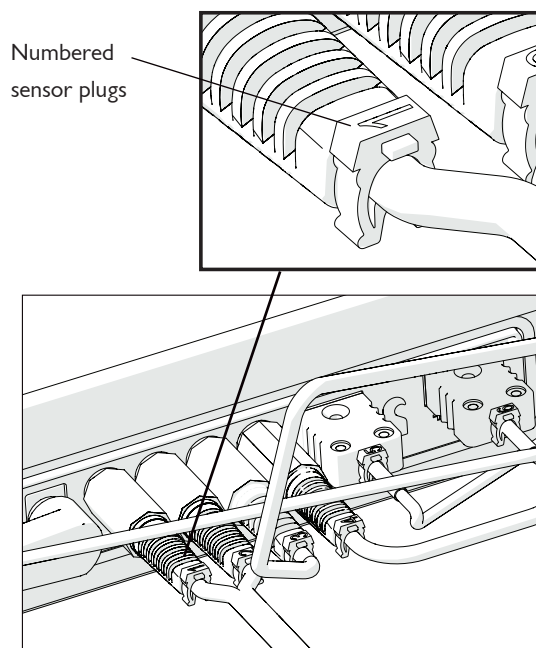
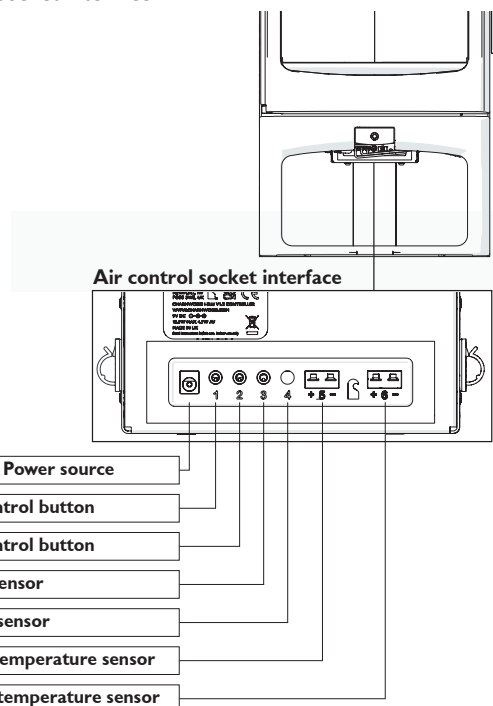


Fig. 18 Socket interface



INSTALLATION INSTRUCTIONS



of another type of equipment that is excluded from, or does not fall within the scope of this directive, which can fulfil its function only if it is part of that equipment’.

UK Gov Guidance ‘Electrical and electronic equipment (EEE) covered by the WEEE Regulations’, updated 18 January 2021, states : Exempt products are: “a piece of equipment that’s designed for and installed in another type of equipment “, “Where electrical energy is only used for support or control functions, the equipment is not covered by the regulations. Equipment that only needs a spark to start it (electronic ignition) and does not need electricity to fulfil its basic function includes: petrol lawn mowers, gas stoves”.

The electronic control system on the Aire 300, 500 and 700 stoves are considered exempt from these regulations on this basis.

Canada

The Canadian Government website provides an inventory of recycling programs across Canada and it is recommended that this resource is used to responsibly recycle the electronic components of the Aire 300, 500 and 700 when they reach the end of their life. A description of how to remove all the electrical components from the body of the stove, can be found on pages 17-19.

USA

The EPA website provides links to other sites that summarise the state specific legislation concerning electronic waste and also the recycling programs that are able to process the waste. It is recommended that these resources are used to responsibly recycle the electronic components of the Aire 300, 500 and 700 when they reach the end of their life. A description of how to remove all the electrical components from the body of the stove, can be found on pages 17-19.

Australia

The ANZRP website is an example of the provision of a safe and responsible collection of e-waste. It is recommended that this kind of resource is used to responsibly recycle the electronic components of the Aire 300, 500 and 700 when they reach the end of their life. A description of how to remove all the electrical components from the body of the stove, can be found on pages 17-19.

Electronic Component Removal

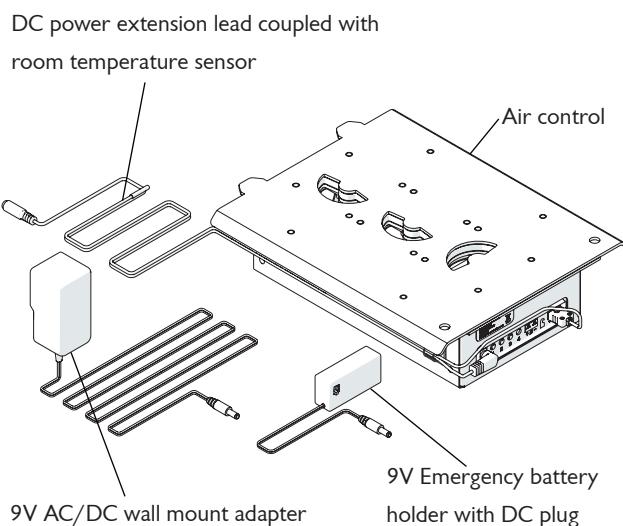
The air control assembly containing most of the electronics is easily detached by removing the store stand heat shield or cable tray (Fig.

15 & 16), unplugging the seven cables from the front, then removing the two 10mm (Aire 300) or 13mm (Aire 500/700) bolts on the front of the air control unit, before sliding it forwards and lowering it away from the stove. On the Store Stand stoves the air control can be removed through the opening in the lower front casting. On the Low Stand stoves the lower front casting will need to be removed first. Remove the 2 x 4mm Allen screws on the top of the lower front casting and lift off.

The air control cover can then be detached by removing the four 8mm nuts holding it on and lifting it up, rear first. The front fascia can be unclipped from the circuit board and the three daughter boards can be unplugged from the mother board, then the mother board can be carefully prised away from its mount at each corner and the daughter boards can be removed from the air control housings.

The remaining electronics on the stove consist of the button, which can be removed from the stove in its plastic moulding via the two screws on the air control guide plate, the door switch, accessed by removing the lower casting and the room and stove temperature sensors and flame sensor, which can be accessed by removing the rear heat shield and left hand side brick.

Fig. 19 Power connections



In normal operation the 9V AC/DC wall mount adapter should be connected to the DC power extension lead supplying power to the Air control.

To replicate the nominal performance results obtained in the type test, the following parameters must be used.

Aire 300

Flue: I.D. Ø127mm x 500mm single wall stainless steel flue fitted to the appliance in the top outlet.
Mode: Automatic
Setting: level 3
Basic firebed: TBC
Kindling: 1kg (18 x 180mm long sticks)
Pretest/ test: 700g (1 x 200mm long log x Ø80mm) arranged from side to side (-)

Recharge criterion: TBC

Aire 500

Flue: I.D. Ø152mm x 500mm single wall stainless steel flue fitted to the appliance in the top outlet.
Mode: Automatic
Setting: level 3
Basic firebed: 0,10kg
Kindling: 1.4kg (32 x 180mm long sticks)
Pretest/ test: 1.03kg (2 x 180mm long logs - front log +75g) arranged from side to side (=)

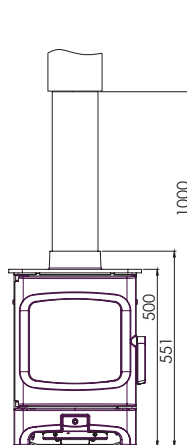
Recharge criterion: Weight measured by scale

Aire 700

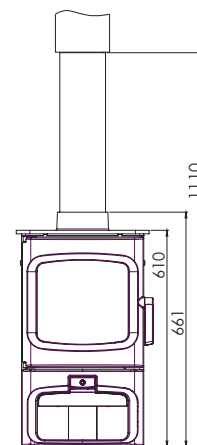
Flue: I.D. Ø152mm x 500mm single wall stainless steel flue fitted to the appliance in the top outlet.
Mode: Automatic
Setting: level 3
Basic firebed: 0,05kg
Kindling: 1.4kg (45 x 200mm long sticks)
Pretest/ test: 1.3kg (2 x 200mm long logs) arranged from side to side (=)

Recharge criterion: Weight measured by scale

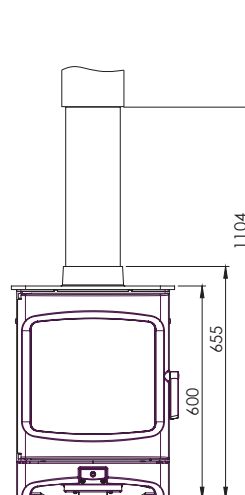
Stove height dimensions as tested with 500mm uninsulated stainless steel flue fitted before measurement section.



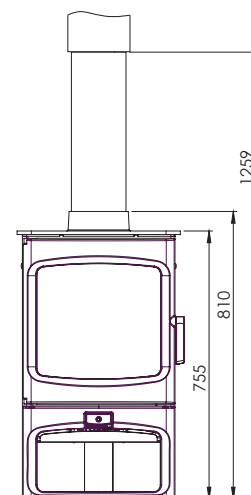
Aire 300 Low Stand



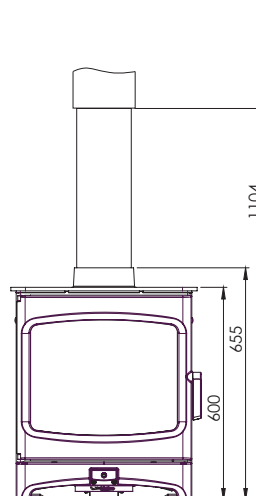
Aire 300 Store Stand



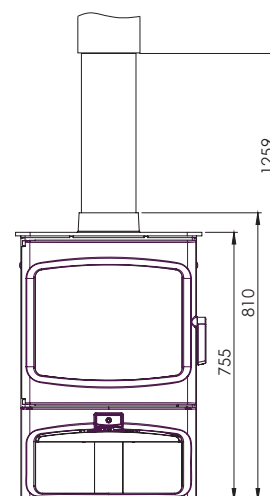
Aire 500 Low Stand



Aire 500 Store Stand



Aire 700 Low Stand

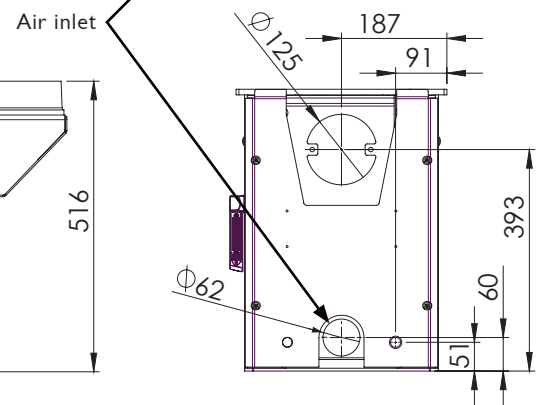
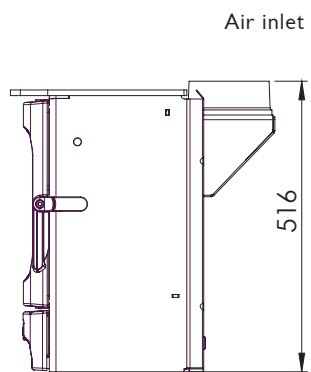
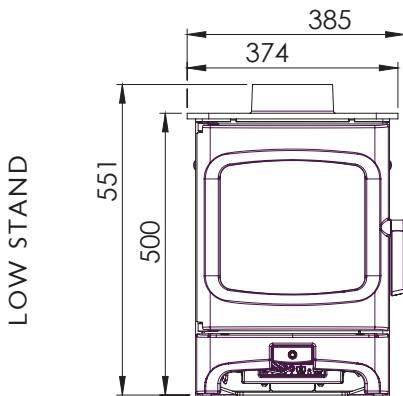
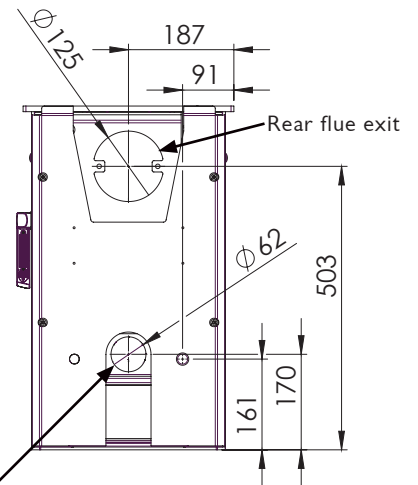
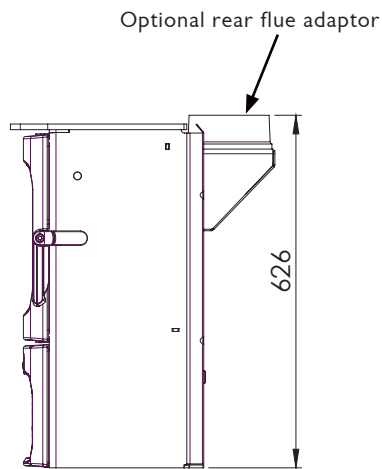
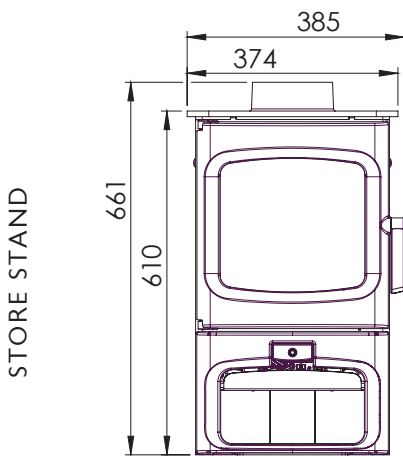
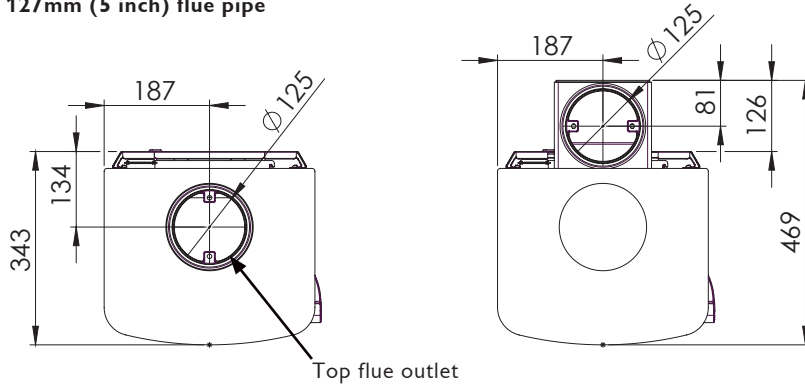


Aire 700 Store Stand

AIRE 300 DIMENSIONS



To suit 127mm (5 inch) flue pipe



FRONT

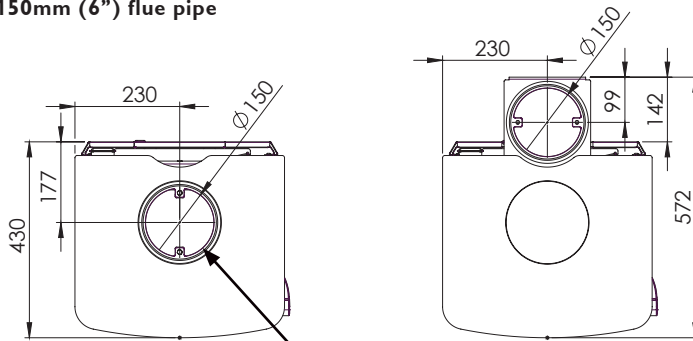
SIDE

REAR

AIRE 500 DIMENSIONS

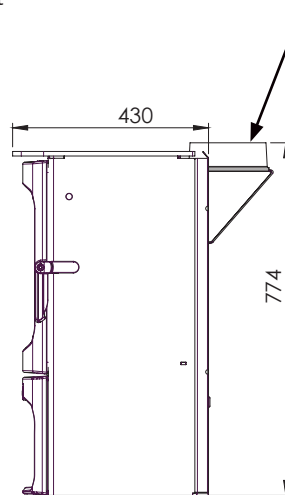
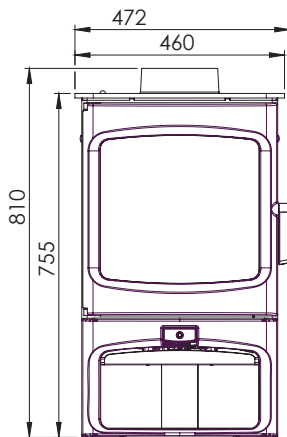


To suit 150mm (6") flue pipe

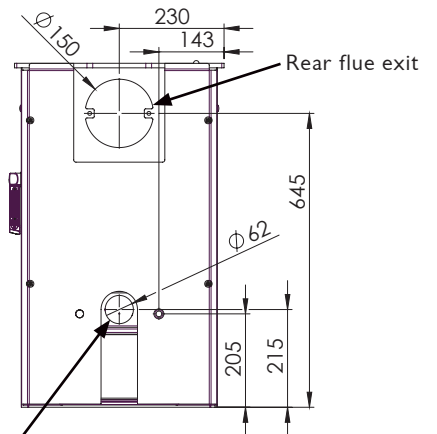


Top flue outlet

STORE STAND

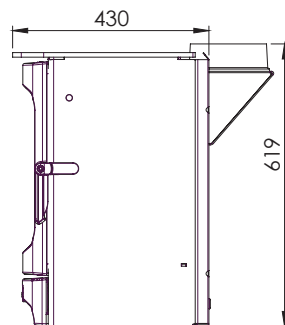
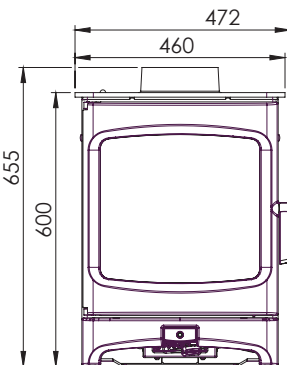


Optional rear flue adaptor

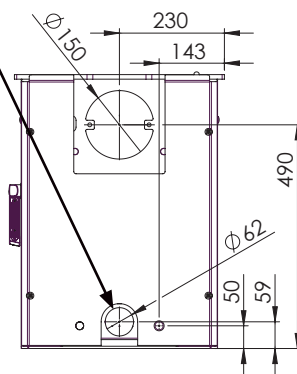


Rear flue exit

LOW STAND



Air inlet



FRONT

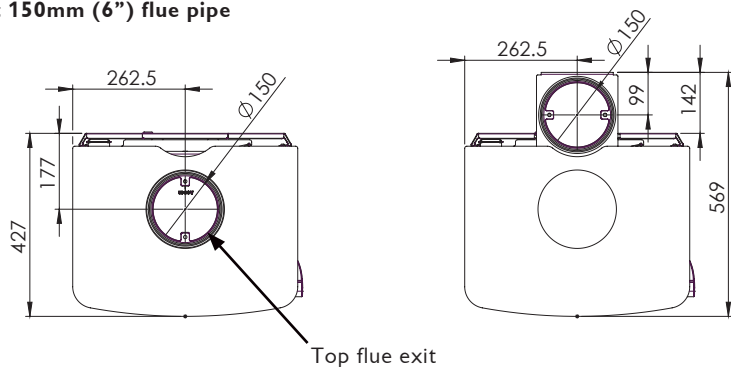
SIDE

REAR

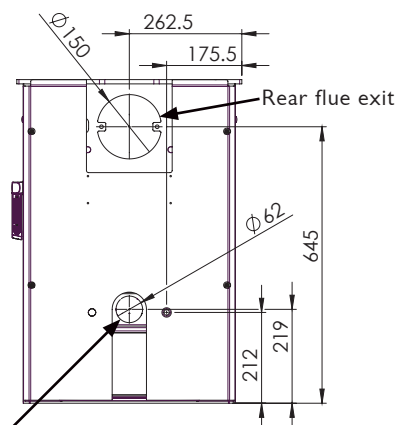
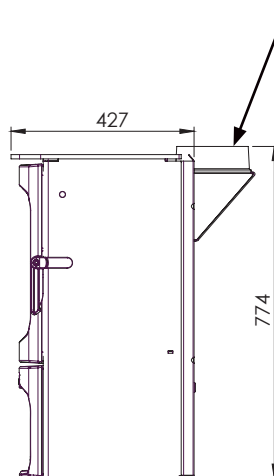
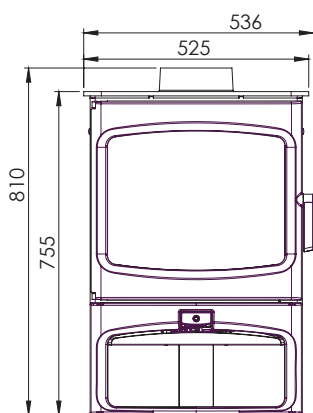
AIRE 700 DIMENSIONS



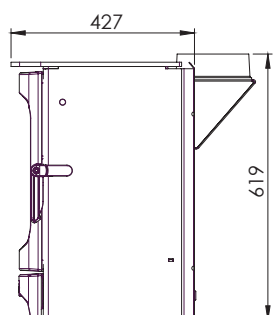
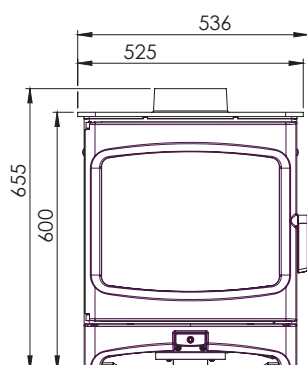
To suit 150mm (6") flue pipe



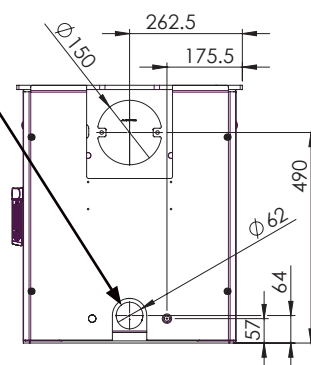
STORE STAND



LOW STAND



Air inlet



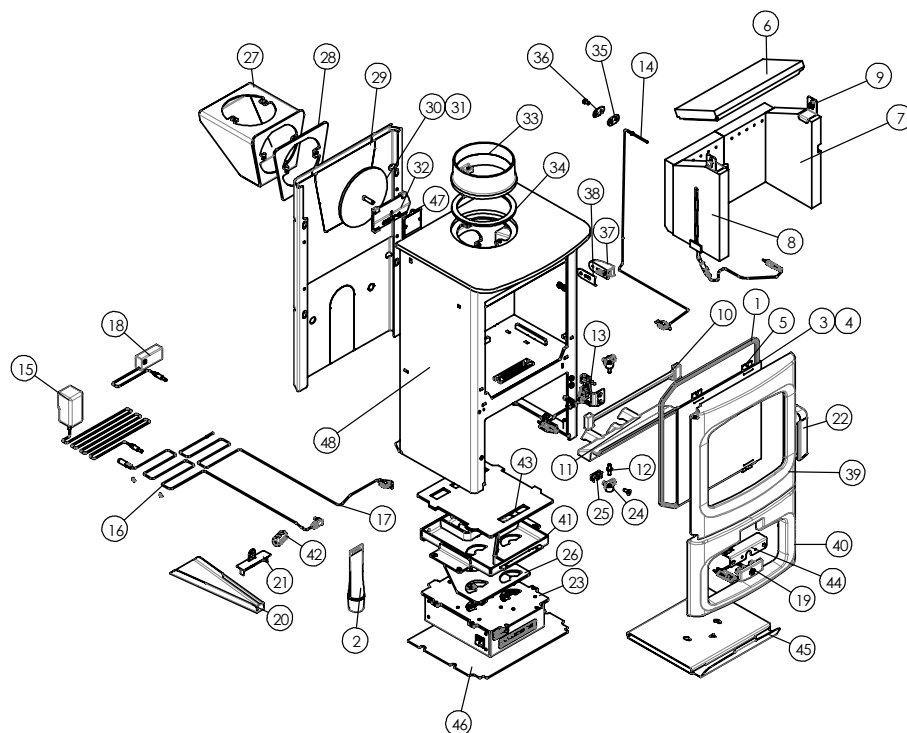
FRONT

SIDE

REAR

Charnwood Aire 300 Store Stand Parts List

Issue A



Item	Part No.	Description	Item	Part No.	Description
1	008/AA035	Rope Door Seal (Inc Adhesive)	25	004/BR021	Hinge Shim
2	008/TH085	Door Seal Adhesive	26	008/AJL110	Air Control Gasket
3	006/PV195	Glass (Inc Seal)	27#	010/BU034	Vert Rear Flue Adaptor (Opt'l Extra)
4	008/PV55	Glass Seal	28	010/AA081	Vert Rear Flue Adapter Spacer
5	004/KV23	Glass Retainer	29#	010/AJ080	Heat Shield
6	011/AJL031	Throat Plate Brick	30	012/PV09	Blanking Plate
7	011/AJL029S	Set of Fire Bricks (4)	31	008/KS134	Sealing Gasket
8	011/AJL028LA	Left-Hand Brick With Optic	32	010/EY51	Clamping Plate
9	004/XV30	Brick Bracket	33#	002/PV12B	Flue Collar
10	002/AA008	Front Fence	34	008/EY38	Flue Fixing Rope Seal
11	002/AJL007	Ash Retainer	35	004/NH700	Thermocouple Retainer
12	008/ST073/2	Hinge Pin Set	36	004/NH701	Thermocouple Retainer Spacer
13	010/AGL066	Door Switch Assembly	37#	003/AB055A	Latch Reciever
14	008/CU260	Firebox Thermocouple	38	004/AB013	Latch Receiver Shim
15	008/EL307	9v Power Supply	39	003/AA001A	Door Assembly
16	008/EL308	9v Power Supply Extension Lead	40#	003/AJ072	Front Lower Casting
17	008/CU261	Room Thermocouple	41	010/AJL230	Air Splitter Box
18	008/EL309	9v Reserve Battery Pack	42	008/EL304	Split Ferrite
19	010/AJL251	Control Button Assembly	43	008/AJL109	Splitter Box Gasket
20	004/AGL088	Ash Scoop	44	004/AJ014	Button Mounting Bracket
21	004/AGL089	Ash Guard	45	004/AJ082	Cable Tray
22#	003/AB012A	Door Handle	46	010/AG058	Store Stand Base Plate
23	010/AJL135	Air Control Assembly	47	012/AJ011	Serial No. Label
24#	002/AC020	Hinge	48#	001/AJ010	Firebox

Please specify colour when ordering.

To obtain spare parts please contact your local stockist giving Model, Part No. and Description. In case of difficulty contact the manufacturer at the address shown. This drawing is for identification purposes only.

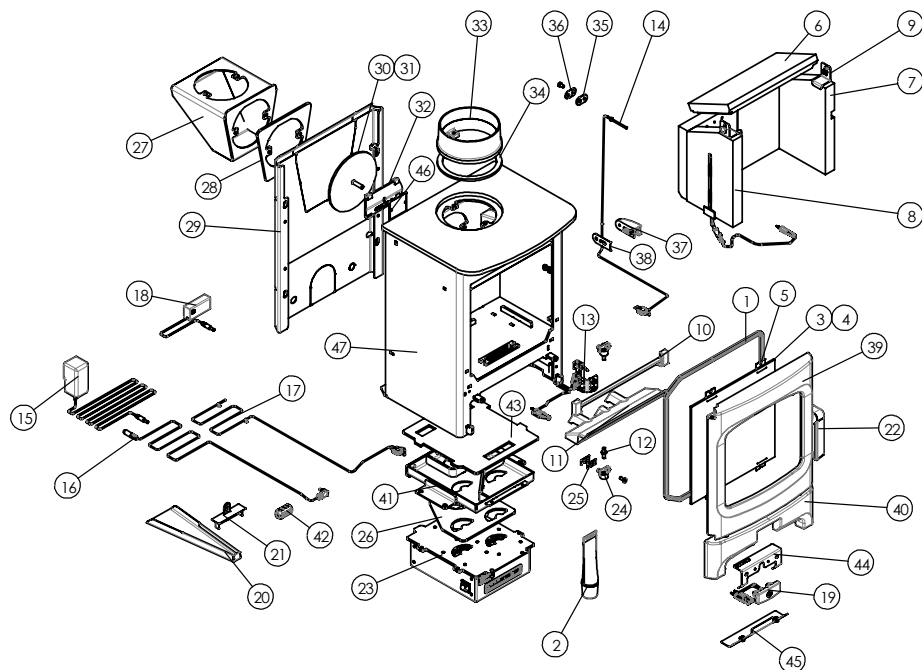
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Charnwood Aire 300 Low Stand Parts List

Issue A



Item	Part No.	Description	Item	Part No.	Description
1	008/AA035	Rope Door Seal (Inc Adhesive)	25	004/BR021	Hinge Shim
2	008/TH085	Door Seal Adhesive	26	008/AJL110	Air Control Gasket
3	006/PV19S	Glass (Inc Seal)	27#	010/BU034	Vert Rear Flue Adaptor (Opt'l Extra)
4	008/PV55	Glass Seal	28	010/AA081	Vert Rear Flue Adaptor Spacer
5	004/KV23	Glass Retainer	29#	010/AJL080	Heat Shield
6	011/AJL031	Throat Plate Brick	30	012/PV09	Blanking Plate
7	011/AJL029S	Set of Fire Bricks (4)	31	008/KS134	Sealing Gasket
8	011/AJL028LA	Left-Hand Brick With Optic	32	010/EY51	Clamping Plate
9	004/XV30	Brick Bracket	33#	002/PV12B	Flue Collar
10	002/AA008	Front Fence	34	008/EY38	Flue Fixing Rope Seal
11	002/AJL007	Ash Retainer	35	004/NH700	Thermocouple Retainer
12	008/ST073/2	Hinge Pin Set	36	004/NH701	Thermocouple Retainer Spacer
13	010/AGL066	Door Switch Assembly	37#	003/AB055A	Latch Reciever
14	008/CU260	Firebox Thermocouple	38	004/AB013	Latch Receiver Shim
15	008/EL307	9v Power Supply	39	003/AA001A	Door Assembly
16	008/EL308	9v Power Supply Extension Lead	40#	003/AJL072	Front Lower Casting
17	008/CU261	Room Thermocouple	41	010/AJL230	Air Splitter Box
18	008/EL309	9v Reserve Battery Pack	42	008/EL304	Split Ferrite
19	010/AJL251	Control Button Assembly	43	008/AJL109	Splitter Box Gasket
20	004/AGL088	Ash Scoop	44	004/AJL014	Button Mounting Bracket
21	004/AGL089	Ash Guard	45	004/AJL082	Cable Tray
22#	003/AB012A	Door Handle	46	012/AJL011	Serial No. Label
23	010/AJL135	Air Control Assembly	47#	001/AJL010	Firebox
24#	002/AC020	Hinge			

Please specify colour when ordering.

To obtain spare parts please contact your local stockist giving Model, Part No. and Description. In case of difficulty contact the manufacturer at the address shown. This drawing is for identification purposes only.

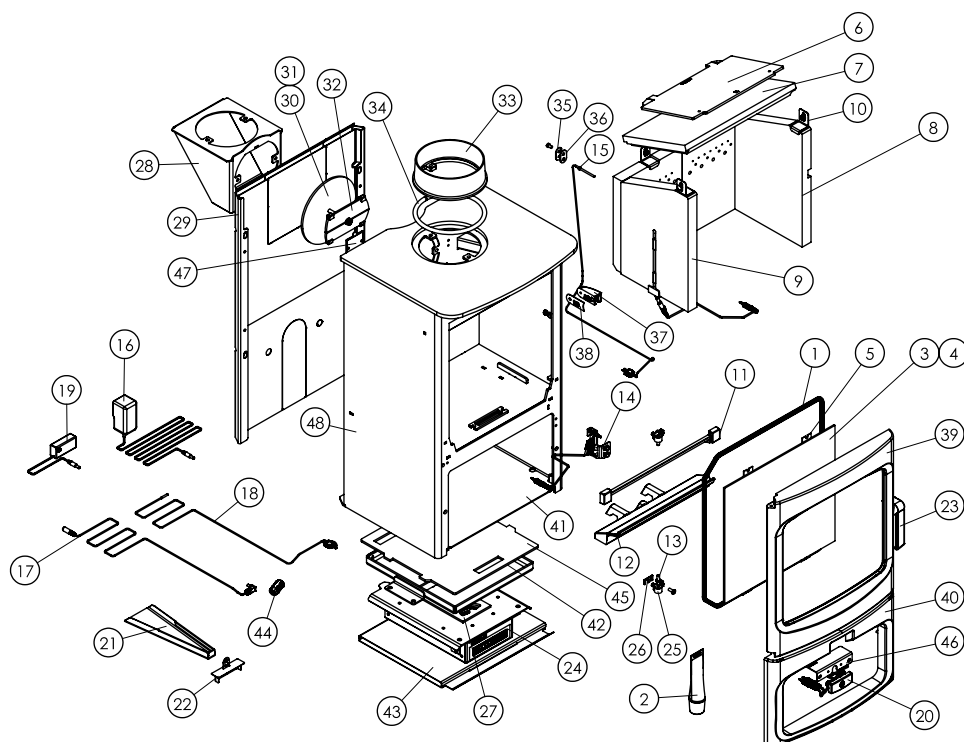
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Aire 500 Store Stand Parts List

Issue A



Item	Part No.	Description	Item	Part No.	Description
1	008/AB035	Rope Door Seal (Inc Adhesive)	25#	002/AC020	Hinge
2	008/TH085	Door Seal Adhesive	26	004/BR021	Hinge Shim
3	006/AB018	Glass (Inc Seal)	27	008/AGL110	Air Control Gasket
4	008/AY45	Glass Seal	28#	010/TW33	Vert Rear Flue Adaptor (Opt'l Extra)
5	004/KV23	Glass Retainer	29#	010/AG080	Heat Shield
6	010/AB045	Upper Throat Plate	30	012/TW09	Blanking Plate
7	011/AGL031	Throat Plate Brick	31	008/KS134	Sealing Gasket
8	011/AGL029S	Set of Fire Bricks (4)	32	010/AY51	Clamping Plate
9	011/AGL028LA	Left-Hand Brick With Optic	33#	002/CH12B	Flue Collar
10	004/XV30	Brick Bracket	34	008/NV38	Flue Fixing Rope Seal
11	002/AB008	Front Fence	35	004/NH700	Thermocouple Retainer
12	002/AGL007	Ash Retainer	36	004/NH701	Thermocouple Retainer Spacer
13	008/ST073/2	Hinge Pin Set	37#	003/AB055A	Latch Reciever
14	010/AGL066	Door Switch Assembly	38	004/AB013	Latch Receiver Shim
15	008/EL302	Firebox Thermocouple	39	003/AB001A	Door Assembly
16	008/EL307	9v Power Supply	40#	003/AGL072	Front Lower Casting
17	008/EL308	9v Power Supply Extension Lead	41#	010/AG058	Store Stand Base Plate
18	008/EL340	Room Thermocouple	42	010/AGL230	Air Splitter Box
19	008/EL309	9v Reserve Battery Pack	43	004/AG082	Store Stand Heat Shield
20	010/AGL250	Control Button Assembly	44	008/EL304	Split Ferrite
21	004/AGL088	Ash Scoop	45	008/AGL109	Splitter Box Gasket
22	004/AGL089	Ash Guard	46	004/AG014	Button Mounting Bracket
23#	003/AB012A	Door Handle	47	012/AG011	Serial No. Label
24	010/AGL135	Air Control Assembly	48#	001/AG010	Firebox

Please specify colour when ordering.

To obtain spare parts please contact your local stockist giving Model, Part No. and Description. In case of difficulty contact the manufacturer at the address shown. This drawing is for identification purposes only.

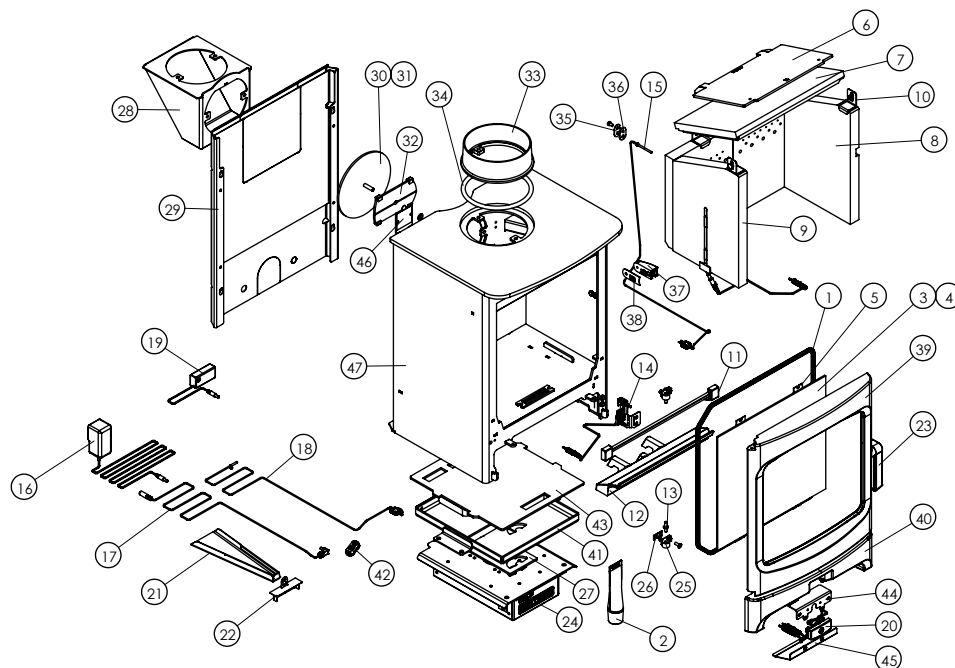
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Charnwood Aire 500 Low Stand Parts List

Issue A



Item	Part No.	Description	Item	Part No.	Description
1	008/AB035	Rope Door Seal (Inc Adhesive)	25#	002/AC020	Hinge
2	008/TH085	Door Seal Adhesive	26	004/BR021	Hinge Shim
3	006/AB018	Glass (Inc Seal)	27	008/AGL110	Air Control Gasket
4	008/AY45	Glass Seal	28#	010/TW33	Vert Rear Flue Adaptor (Opt'l Extra)
5	004/KV23	Glass Retainer	29#	010/AGL080	Heat Shield
6	010/AB045	Upper Throat Plate	30	012/TW09	Blanking Plate
7	011/AGL031	Throat Plate Brick	31	008/KS134	Sealing Gasket
8	011/AGL029S	Set of Fire Bricks (4)	32	010/AY51	Clamping Plate
9	011/AGL028LA	Left-Hand Brick With Optic	33#	002/CH12B	Flue Collar
10	004/XV30	Brick Bracket	34	008/NV38	Flue Fixing Rope Seal
11	002/AB008	Front Fence	35	004/NH700	Thermocouple Retainer
12	002/AGL007	Ash Retainer	36	004/NH701	Thermocouple Retainer Spacer
13	008/ST073/2	Hinge Pin Set	37#	003/AB055A	Latch Reciever
14	010/AGL066	Door Switch Assembly	38	004/AB013	Latch Receiver Shim
15	008/EL302	Firebox Thermocouple	39	003/AB001A	Door Assembly
16	008/EL307	9v Power Supply	40#	003/AGL072	Front Lower Casting
17	008/EL308	9v Power Supply Extension Lead	41	010/AGL230	Air Splitter Box
18	008/EL340	Room Thermocouple	42	008/EL304	Split Ferrite
19	008/EL309	9v Reserve Battery Pack	43	008/AGL109	Splitter Box Gasket
20	010/AGL250	Control Button Assembly	44	004/AG014	Button Mounting Bracket
21	004/AGL088	Ash Scoop	45	004/AGL082	Cable Tray
22	004/AGL089	Ash Guard	46	012/AGL011	Serial No. Label
23#	003/AB012A	Door Handle	47#	001/AGL010	Firebox
24	010/AGL135	Air Control Assembly			

Please specify colour when ordering.

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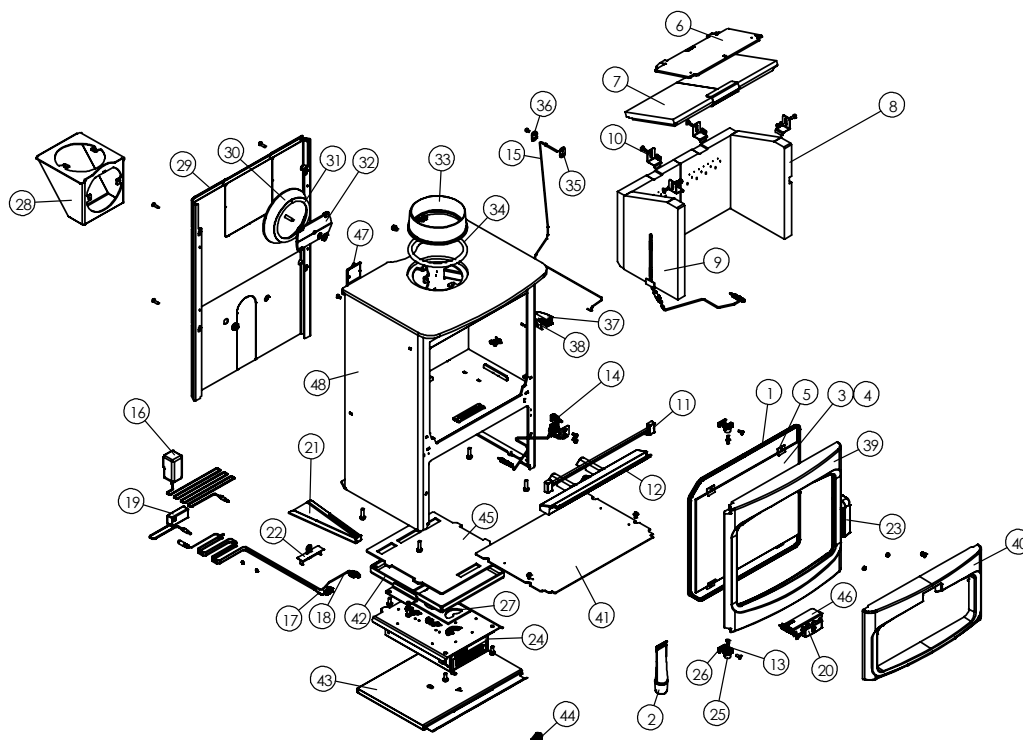
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Charnwood Aire 700 Store Stand Parts List

Issue A



Item	Part No.	Description	Item	Part No.	Description
1	008/AC035	Rope Door Seal (Inc Adhesive)	25#	002/AC020	Hinge
2	008/TH085	Door Seal Adhesive	26	004/BR021	Hinge Shim
3	006/AC018	Glass (Inc Seal)	27	008/AGL110	Air Control Gasket
4	008/AY45	Glass Seal	28#	010/TW33	Vert Rear Flue Adaptor (Opt'l Extra)
5	004/KV23	Glass Retainer	29#	010/AL080	Heat Shield
6	010/AC042	Upper Throat Plate	30	012/TW09	Blanking Plate
7	011/ALL031S	Throat Plate Bricks Inc. Bracket	31	008/KS134	Sealing Gasket
8	011/ALL029S	Set of Fire Bricks (4)	32	010/AY51	Clamping Plate
9	011/AGL028LA	Left-Hand Brick With Optic	33#	002/CH12B	Flue Collar
10	004/XV30	Brick Bracket	34	008/NV38	Flue Fixing Rope Seal
11	002/AC008	Front Fence	35	004/NH700	Thermocouple Retainer
12	002/ALL007	Ash Retainer	36	004/NH701	Thermocouple Retainer Spacer
13	008/ST073/2	Hinge Pin Set	37#	003/AB055A	Latch Reciever
14	010/AGL066	Door Switch Assembly	38	004/AB013	Latch Receiver Shim
15	008/EL302	Firebox Thermocouple	39	003/AC001A	Door Assembly
16	008/EL307	9v Power Supply	40#	003/AL072	Front Lower Casting
17	008/EL308	9v Power Supply Extension Lead	41#	010/AL058	Store Stand Base Plate
18	008/EL340	Room Thermocouple	42	010/AGL230	Air Splitter Box
19	008/EL309	9v Reserve Battery Pack	43	004/AL082	Store Stand Heat Shield
20	010/AGL250	Control Button Assembly	44	008/EL304	Split Ferrite
21	004/AGL088	Ash Scoop	45	008/AGL109	Splitter Box Gasket
22	004/AGL089	Ash Guard	46	004/AG014	Button Mounting Bracket
23#	003/AB012A	Door Handle	47	012/AL011	Serial No. Label
24	010/AGL135	Air Control Assembly	48#	001/AL010	Firebox

Please specify colour when ordering.

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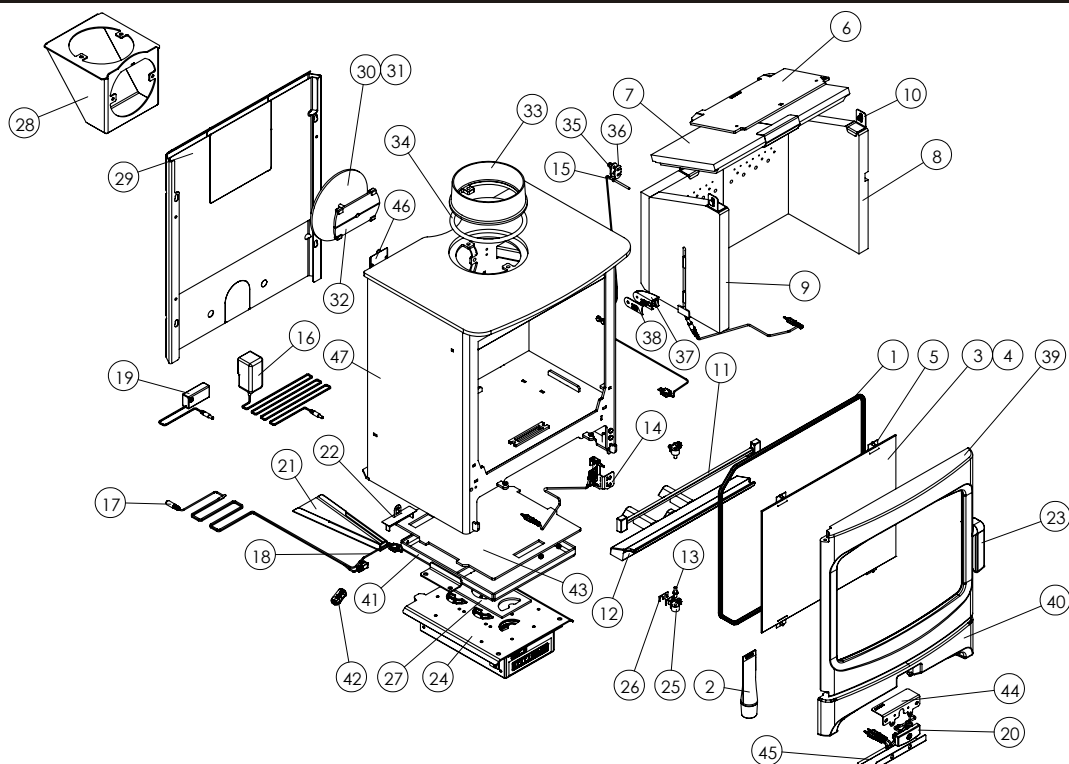
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Aire 700 Low Stand Parts List

Issue A



Item	Part No.	Description	Item	Part No.	Description
1	008/AC035	Rope Door Seal (Inc Adhesive)	25#	002/AC020	Hinge
2	008/TH085	Door Seal Adhesive	26	004/BR021	Hinge Shim
3	006/AC018	Glass (Inc Seal)	27	008/AGL110	Air Control Gasket
4	008/AY45	Glass Seal	28#	010/TW33	Vert Rear Flue Adaptor (Opt'l Extra)
5	004/KV23	Glass Retainer	29#	010/ALL080	Heat Shield
6	010/AC042	Upper Throat Plate	30	012/TW09	Blanking Plate
7	011/ALL031S	Throat Plate Bricks Inc. Bracket	31	008/KS134	Sealing Gasket
8	011/ALL029S	Set of Fire Bricks (4)	32	010/AY51	Clamping Plate
9	011/AGL028LA	Left-Hand Brick With Optic	33#	002/CH12B	Flue Collar
10	004/XV30	Brick Bracket	34	008/NV38	Flue Fixing Rope Seal
11	002/AC008	Front Fence	35	004/NH700	Thermocouple Retainer
12	002/ALL007	Ash Retainer	36	004/NH701	Thermocouple Retainer Spacer
13	008/ST073/2	Hinge Pin Set	37#	003/AB055A	Latch Reciever
14	010/AGL066	Door Switch Assembly	38	004/AB013	Latch Receiver Shim
15	008/EL302	Firebox Thermocouple	39	003/AC001A	Door Assembly
16	008/EL307	9v Power Supply	40#	003/ALL072	Front Lower Casting
17	008/EL308	9v Power Supply Extension Lead	41	010/AGL230	Air Splitter Box
18	008/EL340	Room Thermocouple	42	008/EL304	Split Ferrite
19	008/EL309	9v Reserve Battery Pack	43	008/AGL109	Splitter Box Gasket
20	010/AGL250	Control Button Assembly	44	004/AG014	Button Mounting Bracket
21	004/AGL088	Ash Scoop	45	004/AGL082	Cable Tray
22	004/AGL089	Ash Guard	46	012/ALL011	Serial No. Label
23#	003/AB012A	Door Handle	47#	001/ALL010	Firebox
24	010/AGL135	Air Control Assembly			

Please specify colour when ordering.

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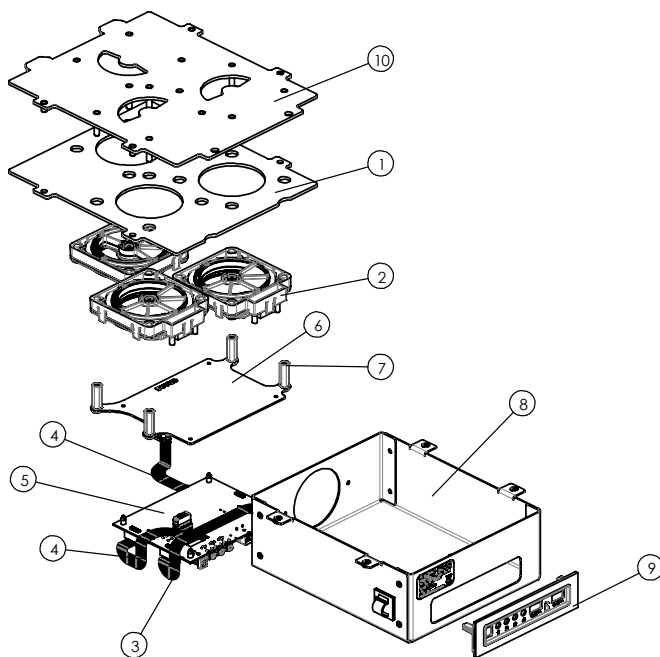
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Charnwood Aire 300 Controller Parts List

Issue A



Item	Part No.	Description		
1	008/AJL242	Airbox Cover Gasket	6	004/AJL235 Circuit Board Mount
2	010/NH580	Disk Assembly	7	008/FFM087 Hex Spacer M5x25
3	008/EL326	Ribbon Cable Connector (210mm)	8	010/AJL040 Airbox Cover
4	008/EL325	Ribbon Cable Connector (150mm)	9	008/CU239 Socket Surround With Gasket
5	008/NH590	Motherboard	10	010/AJL231 Air Control Mounting Plate

To obtain spare parts please contact your local stockist giving Model, Part No. and Description. In case of difficulty contact the manufacturer at the address shown. This drawing is for identification purposes only.

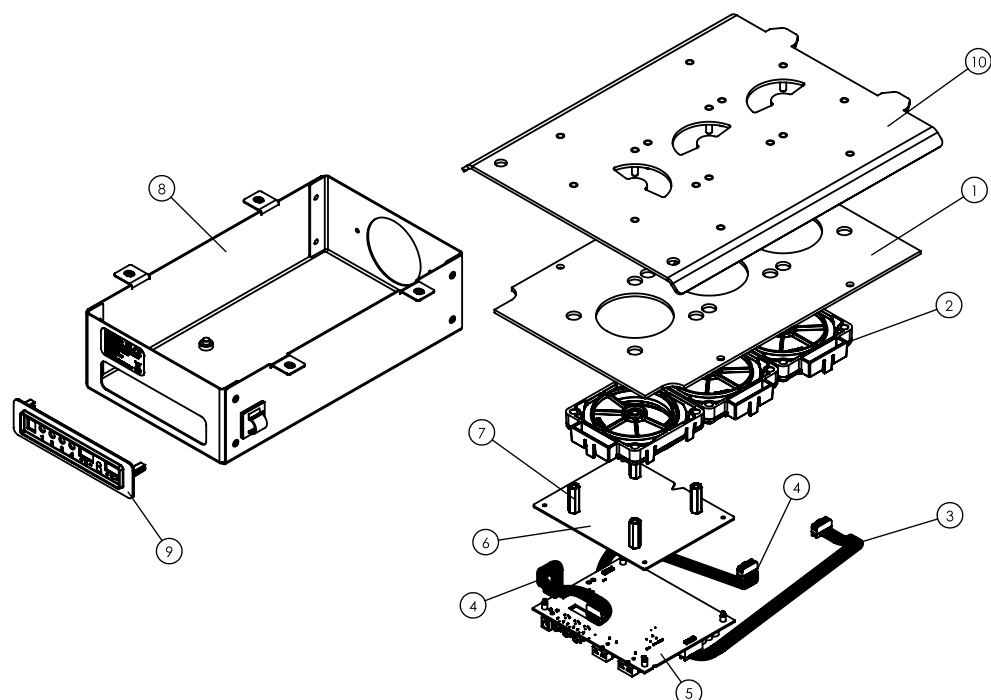
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Charnwood Aire 500 Controller Parts List

Issue A



Item	Part No.	Description
1	008/AGL242	Airbox Cover Gasket
2	010/NH580	Disk Assembly
3	008/EL326	Ribbon Cable Connector (210mm)
4	008/EL325	Ribbon Cable Connector (150mm)
5	008/NH590	Motherboard

Item	Part No.	Description
6	004/AGL235	Circuit Board Mount
7	008/FFM087	Hex Spacer M5x25
8	010/AGL048	Airbox Cover
9	008/CU239	Socket Surround With Gasket
10	010/AGL231	Air Control Mounting Plate

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PRODUCT FICHE

EN - PRODUCT FICHE
FR - FICHE DE PRODUIT

MANUFACTURER
MARQUE
MARCHIO
MARKA

MODEL
MODÈLE
MODELLO
MODEL

EFFICIENCY CLASS
CLASSE D'EFFICACITÉ
CLASSE DI EFFICIENZA
KLASA EFEKTYWNOŚCI

NOMINAL HEAT OUTPUT TO ROOM
PUISSANCE THERMIQUE NOMINALE
POTENZA TERMICA NOMINALE
NOMINALNA MOC CIEPLNA

ENERGY EFFICIENCY INDEX
INDICE EFFICACITÉ ÉNERGÉTIQUE
INDICE DI EFFICIENZA ENERGETICA
INDEX EFEKTYWNOŚCI ENERGETYCZNEJ

SEASONAL SPACE EFFICIENCY
EFFICACITÉ ÉNERGÉTIQUE SAISONNIÈRE POUR LE
CHAUFFAGE DES LOCAUX
EFFICIENZA ENERGETICA STAGIONALE DI
RISCALDAMENTO DI AMBIENTE
SEZONOWA EFEKTYWNOŚĆ CIEPLNA

77	114.7	3.7	A+	Cranmore 3
73	111.8	5	A+	Cranmore 5
73	108.9	7	A+	Cranmore 7
77	114.7	3.7	A+	Aire 3 Low
77	114.7	3.7	A+	Aire 3 Store Stand
76	111.8	5	A+	Aire 5 Low
76	111.8	5	A+	Aire 5 Store Stand
74	108.9	7	A+	Aire 7 Low
74	108.9	7	A+	Aire 7 Store Stand
77	114.7	5	A+	Skye 5 Low
77	114.7	5	A+	Skye 5 Store Stand
72	106	7.3	A	Skye 7 Low
72	106	7.3	A	Skye 7 Store Stand
81	119.05	7.4	A+	Skye E700 D Low
81	119.05	7.4	A+	Skye E700 D Store
73	107.45	5	A+	Arc 5 Low
73	107.45	5	A+	Arc 5 Store Stand
73	107.45	7	A+	Arc 7 Low
73	107.45	7	A+	Arc 7 Store Stand
74	108.9	5	A+	Bembridge
74	108.9	4.8	A+	C-Four Blu
74	108.9	5	A+	C-Five Blu
74	108.9	5.9	A+	C-Six Blu
71	104.55	7.1	A	C-Seven Blu
73	107.45	8	A+	C-Eight Blu
75	112.09	5.2	A+	C-Four Duo
76	106.145	5.3	A	C-Five Duo
72	106	5	A	C-Four Insert
73	107.45	5	A+	Bay 5 VL
73	107.45	5	A+	Bay 5 BX
77	113.25	5.5	A+	Island I - AP
74	108.9	8	A+	Island II - BP
71	104.55	11	A	Island III Blu
81	120.5	6.6	A+	Haven
76	111.8	5	A+	Country 4
69	101.65	8	A	Cove 2 blu
72	106	12	A	Cove 3 blu
77	116	3.9	A+	Aire 300 Low Stand
77	116	3.9	A+	Aire 300 Store Stand
77	115.6	5.6	A+	Aire 500 Low Stand
77	115.6	5.6	A+	Aire 500 Store Stand
78	118.2	6.6	A+	Aire 700 Low Stand
78	118.2	6.6	A+	Aire 700 Store Stand

charnwood
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EU SHEET AIRE 300 LOW STAND



charnwood

(EU)2015/1185 - (EU)2015/1186

Model / Modèle: Charnwood Aire 300 Low Stand

Indirect heating functionality/ Fonctionnalité de chauffage indirect: No

Direct heat output/ Sortie directe de la chaleur: 3.9(kW)

Indirect heat output / Puissance calorifique indirecte: - (kW)

Test laboratory/ Laboratoire d'essai: RRF

Notified body no/ Numéro de l'organisme notifié: 1623

Test report no/ Numéro du rapport d'essai: 1021 25 1885

Harmonized standard / Norme harmonisée: EN16510

TECHNICAL INFORMATION FOR SOLID FUEL LOCAL SPACE HEATERS

INFORMATIONS TECHNIQUES POUR LES APPAREILS DE CHAUFFAGE LOCAUX À COMBUSTIBLE SOLIDE

Fuel / Carburant	Preferred fuel Carburant préféré	Other suitable fuel(s) Autre combustible approprié
Wood logs with moisture content ≤ 25 % / Bûches de bois avec un taux d'humidité ≤ 25%	Yes / Oui	No / Non
Compressed wood with moisture content < 12 % / Bois comprimé avec un taux d'humidité < 12%	No / Non	No / Non
Other woody biomass / Autre biomasse ligneuse	No / Non	No / Non
Non-woody biomass / Biomasse non ligneuse	No / Non	No / Non
Anthracite and dry steam coal / Anthracite et charbon sec à vapeur	No / Non	No / Non
Hard coke / Charbon de coke dur	No / Non	No / Non
Low temperature coke / Coke à basse température	No / Non	No / Non
Bituminous coal / Charbon bitumineux	No / Non	No / Non
Lignite briquettes / Briquettes de lignite	No / Non	No / Non
Peat briquettes / Briquettes de tourbe	No / Non	No / Non
Blended fossil fuel briquettes / Briquettes de combustibles fossiles mélangés	No / Non	No / Non
Other fossil fuel / Autres combustibles fossiles	No / Non	No / Non
Blended biomass and fossil fuel briquettes / Mélange de briquettes de biomasse et de combustibles fossiles	No / Non	No / Non
Other blend of biomass and solid fuel / Autres mélanges de biomasse et de combustibles solides	No / Non	No / Non

Characteristics when operating with the preferred fuel Caractéristiques en cas d'utilisation du carburant préféré			
Seasonal space heating energy efficiency Efficacité énergétique saisonnière du chauffage des locaux η_s [%]: 77			
Energy Efficiency Index / Indice d'efficacité énergétique (EEI): 116			
Item / Objet	Symbol	Value	Unit
Heat output / Puissance calorifique			
Nominal / Nominale	P_{nom}	3.9	kW
Minimum	P_{min}	-	kW

Auxiliary electricity consumption / Consommation d'électricité auxiliaire			
At nominal heat output Au débit calorifique nominal		[N.A.]	W
At minimum heat output Au débit calorifique minimum		[N.A.]	W
In standby mode En mode veille		[N.A.]	W

Permanent pilot flame power requirement Besoin en énergie de la flamme pilote permanente		
Pilot flame power requirement (if applicable) Puissance requise pour la flamme pilote (le cas échéant)	[N.A.]	[N.A.]

Characteristics when only the preferred fuel is used Caractéristiques lorsque seul le combustible préféré est utilisé				
Emissions / Émissions (mg/Nm ³ @ 13% O ₂)	CO	NOX	OGC	PM
at nominal heat output / à la puissance thermique nominale	1175	91	83	29
at minimum heat output / à la puissance calorifique minimale	-	-	-	-

Observe the specific installation, assembly and maintenance precautions listed in the manual supplied with the product, as well as applicable national and local regulations.

All the materials and components used to make our stoves (with the exception of the firebrick, ceramic gaskets and glass) are fully recyclable through your local municipal recycling facility.

Respectez les précautions spécifiques d'installation, d'assemblage et d'entretien indiquées dans le manuel fourni avec le produit, ainsi que les réglementations nationales et locales en vigueur. Tous les matériaux et composants utilisés pour fabriquer nos poêles (à l'exception des briques réfractaires, des joints en céramique et du verre) sont entièrement recyclables par l'intermédiaire de votre centre de recyclage municipal.

Useful efficiency (NCV as received) / Rendement utile (VNC tel que reçu)			
Item / Objet	Symbol	Value	Unit
At nominal heat output À la puissance thermique nominale	$\eta_{th,nom}$	87	%
At minimum heat output (indicative) Puissance calorifique minimale (indicative)	$\eta_{th,min}$	-	%

Type of heat output/room temperature control Type de chauffage/régulation de la température ambiante	
single stage heat output, no room temperature control production de chaleur en une seule étape, pas de contrôle de la température ambiante	Yes / Oui
two or more manual stages, no room temperature control deux étapes manuelles ou plus, pas de contrôle de la température ambiante	No / Non
with mechanic thermostat room temperature control avec thermostat mécanique régulation de la température ambiante	No / Non
with electronic room temperature control avec contrôle électronique de la température ambiante	No / Non
with electronic room temperature control plus day timer avec contrôle électronique de la température ambiante et minuterie journalière	No / Non
with electronic room temperature control plus day timer avec contrôle électronique de la température ambiante et minuterie journalière	No / Non
Other control options Autres options de contrôle	
room temperature control, with presence detection contrôle de la température ambiante, avec détection de présence	No / Non
room temperature control, with open window detection contrôle de la température ambiante, avec détection des fenêtres ouvertes	No / Non
with distance control option avec option de contrôle de la distance	No / Non

Contact details Coordonnées

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EU SHEET AIRE 300 STORE STAND



charnwood

(EU)2015/1185 - (EU)2015/1186

Model / Modèle: Charnwood Aire 300 Store Stand

Indirect heating functionality/ Fonctionnalité de chauffage indirect: No

Direct heat output/ Sortie directe de la chaleur: 3.9(kW)

Indirect heat output / Puissance calorifique indirecte: - (kW)

Test laboratory/ Laboratoire d'essai: RRF

Notified body no/ Numéro de l'organisme notifié: 1623

Test report no/ Numéro du rapport d'essai: 1021 25 1885

Harmonized standard / Norme harmonisée: EN16510

TECHNICAL INFORMATION FOR SOLID FUEL LOCAL SPACE HEATERS

INFORMATIONS TECHNIQUES POUR LES APPAREILS DE CHAUFFAGE LOCAUX À COMBUSTIBLE SOLIDE

Fuel / Carburant	Preferred fuel Carburant préféré	Other suitable fuel(s) Autre combustible approprié
Wood logs with moisture content $\leq 25\%$ / Bûches de bois avec un taux d'humidité $\leq 25\%$	Yes / Oui	No / Non
Compressed wood with moisture content $< 12\%$ / Bois comprimé avec un taux d'humidité $< 12\%$	No / Non	No / Non
Other woody biomass / Autre biomasse ligneuse	No / Non	No / Non
Non-woody biomass / Biomasse non ligneuse	No / Non	No / Non
Anthracite and dry steam coal / Anthracite et charbon sec à vapeur	No / Non	No / Non
Hard coke / Charbon de coke dur	No / Non	No / Non
Low temperature coke / Coke à basse température	No / Non	No / Non
Bituminous coal / Charbon bitumineux	No / Non	No / Non
Lignite briquettes / Briquettes de lignite	No / Non	No / Non
Peat briquettes / Briquettes de tourbe	No / Non	No / Non
Blended fossil fuel briquettes / Briquettes de combustibles fossiles mélangés	No / Non	No / Non
Other fossil fuel / Autres combustibles fossiles	No / Non	No / Non
Blended biomass and fossil fuel briquettes / Mélange de briquettes de biomasse et de combustibles fossiles	No / Non	No / Non
Other blend of biomass and solid fuel / Autres mélanges de biomasse et de combustibles solides	No / Non	No / Non

Characteristics when operating with the preferred fuel Caractéristiques en cas d'utilisation du carburant préféré			
Seasonal space heating energy efficiency Efficacité énergétique saisonnière du chauffage des locaux η_s [%]: 77			
Energy Efficiency Index / Indice d'efficacité énergétique (EEI): 116			
Item / Objet	Symbol	Value	Unit
Heat output / Puissance calorifique			
Nominal / Nominale	P_{nom}	3.9	kW
Minimum	P_{min}	-	kW

Auxiliary electricity consumption / Consommation d'électricité auxiliaire			
At nominal heat output Au débit calorifique nominal		[N.A.]	W
At minimum heat output Au débit calorifique minimum		[N.A.]	W
In standby mode En mode veille		[N.A.]	W

Permanent pilot flame power requirement Besoin en énergie de la flamme pilote permanente		
Pilot flame power requirement (if applicable) Puissance requise pour la flamme pilote (le cas échéant)	[N.A.]	[N.A.]

Characteristics when only the preferred fuel is used Caractéristiques lorsque seul le combustible préféré est utilisé				
Emissions / Émissions (mg/Nm ³ @ 13% O ₂)	CO	NOX	OGC	PM
at nominal heat output / à la puissance thermique nominale	1175	91	83	29
at minimum heat output / à la puissance calorifique minimale	-	-	-	-

Observe the specific installation, assembly and maintenance precautions listed in the manual supplied with the product, as well as applicable national and local regulations.

All the materials and components used to make our stoves (with the exception of the firebrick, ceramic gaskets and glass) are fully recyclable through your local municipal recycling facility.

Respectez les précautions spécifiques d'installation, d'assemblage et d'entretien indiquées dans le manuel fourni avec le produit, ainsi que les réglementations nationales et locales en vigueur. Tous les matériaux et composants utilisés pour fabriquer nos poêles (à l'exception des briques réfractaires, des joints en céramique et du verre) sont entièrement recyclables par l'intermédiaire de votre centre de recyclage municipal.

Useful efficiency (NCV as received) / Rendement utile (VNC tel que reçu)			
Item / Objet	Symbol	Value	Unit
At nominal heat output À la puissance thermique nominale	$\eta_{th,nom}$	87	%
At minimum heat output (indicative) Puissance calorifique minimale (indicative)	$\eta_{th,min}$	-	%

Type of heat output/room temperature control Type de chauffage/régulation de la température ambiante	
single stage heat output, no room temperature control production de chaleur en une seule étape, pas de contrôle de la température ambiante	Yes / Oui
two or more manual stages, no room temperature control deux étapes manuelles ou plus, pas de contrôle de la température ambiante	No / Non
with mechanic thermostat room temperature control avec thermostat mécanique régulation de la température ambiante	No / Non
with electronic room temperature control avec contrôle électronique de la température ambiante	No / Non
with electronic room temperature control plus day timer avec contrôle électronique de la température ambiante et minuterie journalière	No / Non
with electronic room temperature control plus day timer avec contrôle électronique de la température ambiante et minuterie journalière	No / Non
Other control options Autres options de contrôle	
room temperature control, with presence detection contrôle de la température ambiante, avec détection de présence	No / Non
room temperature control, with open window detection contrôle de la température ambiante, avec détection des fenêtres ouvertes	No / Non
with distance control option avec option de contrôle de la distance	No / Non

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EU SHEET AIRE 500 LOW STAND



charnwood

(EU)2015/1185 - (EU)2015/1186

Model / Modèle: Charnwood Aire 500 Low Stand

Indirect heating functionality/ Fonctionnalité de chauffage indirect: No

Direct heat output/ Sortie directe de la chaleur: 5.6(kW)

Indirect heat output / Puissance calorifique indirecte: - (kW)

Test laboratory/ Laboratoire d'essai: RRF

Notified body no/ Numéro de l'organisme notifié: 1625

Test report no/ Numéro du rapport d'essai: 1021 24 1580

Harmonized standard / Norme harmonisée: EN16510

TECHNICAL INFORMATION FOR SOLID FUEL LOCAL SPACE HEATERS

INFORMATIONS TECHNIQUES POUR LES APPAREILS DE CHAUFFAGE LOCAUX À COMBUSTIBLE SOLIDE

Fuel / Carburant	Preferred fuel Carburant préféré	Other suitable fuel(s) Autre combustible approprié
Wood logs with moisture content $\leq 25\%$ / Bûches de bois avec un taux d'humidité $\leq 25\%$	Yes / Oui	No / Non
Compressed wood with moisture content $< 12\%$ / Bois comprimé avec un taux d'humidité $< 12\%$	No / Non	No / Non
Other woody biomass / Autre biomasse ligneuse	No / Non	No / Non
Non-woody biomass / Biomasse non ligneuse	No / Non	No / Non
Anthracite and dry steam coal / Anthracite et charbon sec à vapeur	No / Non	No / Non
Hard coke / Charbon de coke dur	No / Non	No / Non
Low temperature coke / Coke à basse température	No / Non	No / Non
Bituminous coal / Charbon bitumineux	No / Non	No / Non
Lignite briquettes / Briquettes de lignite	No / Non	No / Non
Peat briquettes / Briquettes de tourbe	No / Non	No / Non
Blended fossil fuel briquettes / Briquettes de combustibles fossiles mélangés	No / Non	No / Non
Other fossil fuel / Autres combustibles fossiles	No / Non	No / Non
Blended biomass and fossil fuel briquettes / Mélange de briquettes de biomasse et de combustibles fossiles	No / Non	No / Non
Other blend of biomass and solid fuel / Autres mélanges de biomasse et de combustibles solides	No / Non	No / Non

Characteristics when operating with the preferred fuel Caractéristiques en cas d'utilisation du carburant préféré			
Seasonal space heating energy efficiency Efficacité énergétique saisonnière du chauffage des locaux η_s [%]: 77			
Energy Efficiency Index / Indice d'efficacité énergétique (EEI): 116			
Item / Objet	Symbol	Value	Unit
Heat output / Puissance calorifique			
Nominal / Nominale	P_{nom}	5.6	kW
Minimum	P_{min}	-	kW

Auxiliary electricity consumption / Consommation d'électricité auxiliaire			
At nominal heat output Au débit calorifique nominal		[N.A.]	W
At minimum heat output Au débit calorifique minimum		[N.A.]	W
In standby mode En mode veille		[N.A.]	W

Permanent pilot flame power requirement Besoin en énergie de la flamme pilote permanente		
Pilot flame power requirement (if applicable) Puissance requise pour la flamme pilote (le cas échéant)	[N.A.]	[N.A.]

Characteristics when only the preferred fuel is used Caractéristiques lorsque seul le combustible préféré est utilisé				
Emissions / Émissions (mg/Nm ³ @ 13% O ₂)	CO	NOX	OGC	PM
at nominal heat output / à la puissance thermique nominale	612	119	25	15
at minimum heat output / à la puissance calorifique minimale	-	-	-	-

Observe the specific installation, assembly and maintenance precautions listed in the manual supplied with the product, as well as applicable national and local regulations.

All the materials and components used to make our stoves (with the exception of the firebrick, ceramic gaskets and glass) are fully recyclable through your local municipal recycling facility.

Respectez les précautions spécifiques d'installation, d'assemblage et d'entretien indiquées dans le manuel fourni avec le produit, ainsi que les réglementations nationales et locales en vigueur. Tous les matériaux et composants utilisés pour fabriquer nos poêles (à l'exception des briques réfractaires, des joints en céramique et du verre) sont entièrement recyclables par l'intermédiaire de votre centre de recyclage municipal.

Useful efficiency (NCV as received) / Rendement utile (VNC tel que reçu)			
Item / Objet	Symbol	Value	Unit
At nominal heat output À la puissance thermique nominale	$\eta_{th,nom}$	87	%
At minimum heat output (indicative) Puissance calorifique minimale (indicative)	$\eta_{th,min}$	-	%

Type of heat output/room temperature control Type de chauffage/régulation de la température ambiante	
single stage heat output, no room temperature control production de chaleur en une seule étape, pas de contrôle de la température ambiante	Yes / Oui
two or more manual stages, no room temperature control deux étapes manuelles ou plus, pas de contrôle de la température ambiante	No / Non
with mechanic thermostat room temperature control avec thermostat mécanique régulation de la température ambiante	No / Non
with electronic room temperature control avec contrôle électronique de la température ambiante	No / Non
with electronic room temperature control plus day timer avec contrôle électronique de la température ambiante et minuterie journalière	No / Non
with electronic room temperature control plus day timer avec contrôle électronique de la température ambiante et minuterie journalière	No / Non
Other control options Autres options de contrôle	
room temperature control, with presence detection contrôle de la température ambiante, avec détection de présence	No / Non
room temperature control, with open window detection contrôle de la température ambiante, avec détection des fenêtres ouvertes	No / Non
with distance control option avec option de contrôle de la distance	No / Non

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EU SHEET AIRE 500 STORE STAND



charnwood

(EU)2015/1185 - (EU)2015/1186

Model / Modèle: Charnwood Aire 500 Store Stand

Indirect heating functionality/ Fonctionnalité de chauffage indirect: No

Direct heat output/ Sortie directe de la chaleur: 5.6(kW)

Indirect heat output / Puissance calorifique indirecte: - (kW)

Test laboratory/ Laboratoire d'essai: RRF

Notified body no/ Numéro de l'organisme notifié: 1625

Test report no/ Numéro du rapport d'essai: 1021 24 1580

Harmonized standard / Norme harmonisée: EN16510

TECHNICAL INFORMATION FOR SOLID FUEL LOCAL SPACE HEATERS

INFORMATIONS TECHNIQUES POUR LES APPAREILS DE CHAUFFAGE LOCAUX À COMBUSTIBLE SOLIDE

Fuel / Carburant	Preferred fuel Carburant préféré	Other suitable fuel(s) Autre combustible approprié
Wood logs with moisture content $\leq 25\%$ / Bûches de bois avec un taux d'humidité $\leq 25\%$	Yes / Oui	No / Non
Compressed wood with moisture content $< 12\%$ / Bois comprimé avec un taux d'humidité $< 12\%$	No / Non	No / Non
Other woody biomass / Autre biomasse ligneuse	No / Non	No / Non
Non-woody biomass / Biomasse non ligneuse	No / Non	No / Non
Anthracite and dry steam coal / Anthracite et charbon sec à vapeur	No / Non	No / Non
Hard coke / Charbon de coke dur	No / Non	No / Non
Low temperature coke / Coke à basse température	No / Non	No / Non
Bituminous coal / Charbon bitumineux	No / Non	No / Non
Lignite briquettes / Briquettes de lignite	No / Non	No / Non
Peat briquettes / Briquettes de tourbe	No / Non	No / Non
Blended fossil fuel briquettes / Briquettes de combustibles fossiles mélangés	No / Non	No / Non
Other fossil fuel / Autres combustibles fossiles	No / Non	No / Non
Blended biomass and fossil fuel briquettes / Mélange de briquettes de biomasse et de combustibles fossiles	No / Non	No / Non
Other blend of biomass and solid fuel / Autres mélanges de biomasse et de combustibles solides	No / Non	No / Non

Characteristics when operating with the preferred fuel Caractéristiques en cas d'utilisation du carburant préféré			
Seasonal space heating energy efficiency Efficacité énergétique saisonnière du chauffage des locaux η_s [%]: 77			
Energy Efficiency Index / Indice d'efficacité énergétique (EEI): 116			
Item / Objet	Symbol	Value	Unit
Heat output / Puissance calorifique			
Nominal / Nominale	P_{nom}	5.6	kW
Minimum	P_{min}	-	kW

Auxiliary electricity consumption / Consommation d'électricité auxiliaire			
At nominal heat output Au débit calorifique nominal		[N.A.]	W
At minimum heat output Au débit calorifique minimum		[N.A.]	W
In standby mode En mode veille		[N.A.]	W

Permanent pilot flame power requirement Besoin en énergie de la flamme pilote permanente		
Pilot flame power requirement (if applicable) Puissance requise pour la flamme pilote (le cas échéant)	[N.A.]	[N.A.]

Characteristics when only the preferred fuel is used Caractéristiques lorsque seul le combustible préféré est utilisé				
Emissions / Émissions (mg/Nm ³ @ 13% O ₂)	CO	NOX	OGC	PM
at nominal heat output / à la puissance thermique nominale	612	119	25	15
at minimum heat output / à la puissance calorifique minimale	-	-	-	-

Observe the specific installation, assembly and maintenance precautions listed in the manual supplied with the product, as well as applicable national and local regulations.

All the materials and components used to make our stoves (with the exception of the firebrick, ceramic gaskets and glass) are fully recyclable through your local municipal recycling facility.

Respectez les précautions spécifiques d'installation, d'assemblage et d'entretien indiquées dans le manuel fourni avec le produit, ainsi que les réglementations nationales et locales en vigueur. Tous les matériaux et composants utilisés pour fabriquer nos poêles (à l'exception des briques réfractaires, des joints en céramique et du verre) sont entièrement recyclables par l'intermédiaire de votre centre de recyclage municipal.

Useful efficiency (NCV as received) / Rendement utile (VNC tel que reçu)			
Item / Objet	Symbol	Value	Unit
At nominal heat output À la puissance thermique nominale	$\eta_{th,nom}$	87	%
At minimum heat output (indicative) Puissance calorifique minimale (indicative)	$\eta_{th,min}$	-	%

Type of heat output/room temperature control Type de chauffage/régulation de la température ambiante	
single stage heat output, no room temperature control production de chaleur en une seule étape, pas de contrôle de la température ambiante	Yes / Oui
two or more manual stages, no room temperature control deux étapes manuelles ou plus, pas de contrôle de la température ambiante	No / Non
with mechanic thermostat room temperature control avec thermostat mécanique régulation de la température ambiante	No / Non
with electronic room temperature control avec contrôle électronique de la température ambiante	No / Non
with electronic room temperature control plus day timer avec contrôle électronique de la température ambiante et minuterie journalière	No / Non
with electronic room temperature control plus day timer avec contrôle électronique de la température ambiante et minuterie journalière	No / Non
Other control options Autres options de contrôle	
room temperature control, with presence detection contrôle de la température ambiante, avec détection de présence	No / Non
room temperature control, with open window detection contrôle de la température ambiante, avec détection des fenêtres ouvertes	No / Non
with distance control option avec option de contrôle de la distance	No / Non

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EU SHEET AIRE 700 LOW STAND



charnwood

(EU)2015/1185 - (EU)2015/1186

Model / Modèle: Charnwood Aire 700 Low Stand

Indirect heating functionality/ Fonctionnalité de chauffage indirect: No

Direct heat output/ Sortie directe de la chaleur: 6.6(kW)

Indirect heat output / Puissance calorifique indirecte: - (kW)

Test laboratory/ Laboratoire d'essai: RRF

Notified body no/ Numéro de l'organisme notifié: 1625

Test report no/ Numéro du rapport d'essai: 1021 24 1609

Harmonized standard / Norme harmonisée: EN16510

TECHNICAL INFORMATION FOR SOLID FUEL LOCAL SPACE HEATERS

INFORMATIONS TECHNIQUES POUR LES APPAREILS DE CHAUFFAGE LOCAUX À COMBUSTIBLE SOLIDE

Fuel / Carburant	Preferred fuel Carburant préféré	Other suitable fuel(s) Autre combustible approprié
Wood logs with moisture content $\leq 25\%$ / Bûches de bois avec un taux d'humidité $\leq 25\%$	Yes / Oui	No / Non
Compressed wood with moisture content $< 12\%$ / Bois comprimé avec un taux d'humidité $< 12\%$	No / Non	No / Non
Other woody biomass / Autre biomasse ligneuse	No / Non	No / Non
Non-woody biomass / Biomasse non ligneuse	No / Non	No / Non
Anthracite and dry steam coal / Anthracite et charbon sec à vapeur	No / Non	No / Non
Hard coke / Charbon de coke dur	No / Non	No / Non
Low temperature coke / Coke à basse température	No / Non	No / Non
Bituminous coal / Charbon bitumineux	No / Non	No / Non
Lignite briquettes / Briquettes de lignite	No / Non	No / Non
Peat briquettes / Briquettes de tourbe	No / Non	No / Non
Blended fossil fuel briquettes / Briquettes de combustibles fossiles mélangés	No / Non	No / Non
Other fossil fuel / Autres combustibles fossiles	No / Non	No / Non
Blended biomass and fossil fuel briquettes / Mélange de briquettes de biomasse et de combustibles fossiles	No / Non	No / Non
Other blend of biomass and solid fuel/ Autres mélanges de biomasse et de combustibles solides	No / Non	No / Non

Characteristics when operating with the preferred fuel Caractéristiques en cas d'utilisation du carburant préféré			
Seasonal space heating energy efficiency Efficacité énergétique saisonnière du chauffage des locaux η_s [%]: 78			
Energy Efficiency Index / Indice d'efficacité énergétique (EEI): 118.2			
Item / Objet	Symbol	Value	Unit
Heat output / Puissance calorifique			
Nominal / Nominale	P_{nom}	6.6	kW
Minimum	P_{min}	-	kW

Auxiliary electricity consumption / Consommation d'électricité auxiliaire			
At nominal heat output Au débit calorifique nominal		[N.A.]	W
At minimum heat output Au débit calorifique minimum		[N.A.]	W
In standby mode En mode veille		[N.A.]	W

Permanent pilot flame power requirement Besoin en énergie de la flamme pilote permanente			
Pilot flame power requirement (if applicable) Puissance requise pour la flamme pilote (le cas échéant)		[N.A.]	[N.A.]

Characteristics when only the preferred fuel is used Caractéristiques lorsque seul le combustible préféré est utilisé				
Emissions / Émissions (mg/Nm ³ @ 13% O ₂)	CO	NOX	OGC	PM
at nominal heat output / à la puissance thermique nominale	599	108	24	17
at minimum heat output / à la puissance calorifique minimale	-	-	-	-

Observe the specific installation, assembly and maintenance precautions listed in the manual supplied with the product, as well as applicable national and local regulations.
All the materials and components used to make our stoves (with the exception of the firebrick, ceramic gaskets and glass) are fully recyclable through your local municipal recycling facility.

Respectez les précautions spécifiques d'installation, d'assemblage et d'entretien indiquées dans le manuel fourni avec le produit, ainsi que les réglementations nationales et locales en vigueur.
Tous les matériaux et composants utilisés pour fabriquer nos poêles (à l'exception des briques réfractaires, des joints en céramique et du verre) sont entièrement recyclables par l'intermédiaire de votre centre de recyclage municipal.

Useful efficiency (NCV as received) / Rendement utile (VNC tel que reçu)			
Item / Objet	Symbol	Value	Unit
At nominal heat output À la puissance thermique nominale	$\eta_{th,nom}$	88	%
At minimum heat output (indicative) Puissance calorifique minimale (indicative)	$\eta_{th,min}$	-	%

Type of heat output/room temperature control Type de chauffage/régulation de la température ambiante	
single stage heat output, no room temperature control production de chaleur en une seule étape, pas de contrôle de la température ambiante	Yes / Oui
two or more manual stages, no room temperature control deux étapes manuelles ou plus, pas de contrôle de la température ambiante	No / Non
with mechanic thermostat room temperature control avec thermostat mécanique régulation de la température ambiante	No / Non
with electronic room temperature control avec contrôle électronique de la température ambiante	No / Non
with electronic room temperature control plus day timer avec contrôle électronique de la température ambiante et minuterie journalière	No / Non
with electronic room temperature control plus day timer avec contrôle électronique de la température ambiante et minuterie journalière	No / Non
Other control options Autres options de contrôle	
room temperature control, with presence detection contrôle de la température ambiante, avec détection de présence	No / Non
room temperature control, with open window detection contrôle de la température ambiante, avec détection des fenêtres ouvertes	No / Non
with distance control option avec option de contrôle de la distance	No / Non

Contact details Coordonnées

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EU SHEET AIRE 700 STORE STAND



charnwood 

(EU)2015/1185 - (EU)2015/1186

Model / Modèle: Charnwood Aire 700 Store Stand

Indirect heating functionality/ Fonctionnalité de chauffage indirect: No

Direct heat output/ Sortie directe de la chaleur: 6.6(kW)

Indirect heat output / Puissance calorifique indirecte: - (kW)

Test laboratory/ Laboratoire d'essai: RRF

Notified body no/ Numéro de l'organisme notifié: 1625

Test report no/ Numéro du rapport d'essai: 1021 24 1609

Harmonized standard / Norme harmonisée: EN16510

TECHNICAL INFORMATION FOR SOLID FUEL LOCAL SPACE HEATERS

INFORMATIONS TECHNIQUES POUR LES APPAREILS DE CHAUFFAGE LOCAUX À COMBUSTIBLE SOLIDE

Fuel / Carburant	Preferred fuel Carburant préféré	Other suitable fuel(s) Autre combustible approprié
Wood logs with moisture content $\leq 25\%$ / Bûches de bois avec un taux d'humidité $\leq 25\%$	Yes / Oui	No / Non
Compressed wood with moisture content $< 12\%$ / Bois comprimé avec un taux d'humidité $< 12\%$	No / Non	No / Non
Other woody biomass / Autre biomasse ligneuse	No / Non	No / Non
Non-woody biomass / Biomasse non ligneuse	No / Non	No / Non
Anthracite and dry steam coal / Anthracite et charbon sec à vapeur	No / Non	No / Non
Hard coke / Charbon de coke dur	No / Non	No / Non
Low temperature coke / Coke à basse température	No / Non	No / Non
Bituminous coal / Charbon bitumineux	No / Non	No / Non
Lignite briquettes / Briquettes de lignite	No / Non	No / Non
Peat briquettes / Briquettes de tourbe	No / Non	No / Non
Blended fossil fuel briquettes / Briquettes de combustibles fossiles mélangés	No / Non	No / Non
Other fossil fuel / Autres combustibles fossiles	No / Non	No / Non
Blended biomass and fossil fuel briquettes / Mélange de briquettes de biomasse et de combustibles fossiles	No / Non	No / Non
Other blend of biomass and solid fuel/ Autres mélanges de biomasse et de combustibles solides	No / Non	No / Non

Characteristics when operating with the preferred fuel Caractéristiques en cas d'utilisation du carburant préféré			
Seasonal space heating energy efficiency Efficacité énergétique saisonnière du chauffage des locaux η_s [%]: 78			
Energy Efficiency Index / Indice d'efficacité énergétique (EEI): 118.2			
Item / Objet	Symbol	Value	Unit
Heat output / Puissance calorifique			
Nominal / Nominale	P_{nom}	6.6	kW
Minimum	P_{min}	-	kW

Auxiliary electricity consumption / Consommation d'électricité auxiliaire			
At nominal heat output Au débit calorifique nominal		[N.A.]	W
At minimum heat output Au débit calorifique minimum		[N.A.]	W
In standby mode En mode veille		[N.A.]	W

Permanent pilot flame power requirement Besoin en énergie de la flamme pilote permanente		
Pilot flame power requirement (if applicable) Puissance requise pour la flamme pilote (le cas échéant)	[N.A.]	[N.A.]

Characteristics when only the preferred fuel is used Caractéristiques lorsque seul le combustible préféré est utilisé				
Emissions / Émissions (mg/Nm ³ @ 13% O ₂)	CO	NOX	OGC	PM
at nominal heat output / à la puissance thermique nominale	599	108	24	17
at minimum heat output / à la puissance calorifique minimale	-	-	-	-

Observe the specific installation, assembly and maintenance precautions listed in the manual supplied with the product, as well as applicable national and local regulations.

All the materials and components used to make our stoves (with the exception of the firebrick, ceramic gaskets and glass) are fully recyclable through your local municipal recycling facility.

Respectez les précautions spécifiques d'installation, d'assemblage et d'entretien indiquées dans le manuel fourni avec le produit, ainsi que les réglementations nationales et locales en vigueur. Tous les matériaux et composants utilisés pour fabriquer nos poêles (à l'exception des briques réfractaires, des joints en céramique et du verre) sont entièrement recyclables par l'intermédiaire de votre centre de recyclage municipal.

Useful efficiency (NCV as received) / Rendement utile (VNC tel que reçu)			
Item / Objet	Symbol	Value	Unit
At nominal heat output À la puissance thermique nominale	$\eta_{th,nom}$	88	%
At minimum heat output (indicative) Puissance calorifique minimale (indicative)	$\eta_{th,min}$	-	%

Type of heat output/room temperature control Type de chauffage/régulation de la température ambiante	
single stage heat output, no room temperature control production de chaleur en une seule étape, pas de contrôle de la température ambiante	Yes / Oui
two or more manual stages, no room temperature control deux étapes manuelles ou plus, pas de contrôle de la température ambiante	No / Non
with mechanic thermostat room temperature control avec thermostat mécanique régulation de la température ambiante	No / Non
with electronic room temperature control avec contrôle électronique de la température ambiante	No / Non
with electronic room temperature control plus day timer avec contrôle électronique de la température ambiante et minuterie journalière	No / Non
with electronic room temperature control plus day timer avec contrôle électronique de la température ambiante et minuterie journalière	No / Non
Other control options Autres options de contrôle	
room temperature control, with presence detection contrôle de la température ambiante, avec détection de présence	No / Non
room temperature control, with open window detection contrôle de la température ambiante, avec détection des fenêtres ouvertes	No / Non
with distance control option avec option de contrôle de la distance	No / Non

Contact details Coordonnées

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TECHNICAL DATASHEET AIRE 300



charnwood

EN 16510-1:2023

Model identifier(s): Charnwood Aire 300 Low Stand, Charnwood Aire 300 Store Stand

Test laboratory: RRF

Notified body no: 1625

Test report no: 1021 25 1885

Harmonized standards: EN16510-1:2023 EN 16510-2-1:2023

Designated fuel: Wood logs

Designation of appliance	Room sealed	Leakage declaration	Combustion air supply connection	Door closure	Tightness requirement
Type BE	[N.A.]	No	Yes	No specific requirement	No specific requirement

No.	Parameter	Unit	Explanation	Value
1	P_{NOM}	kW	The nominal heat output or a range of outputs (dependent on fuel types), rounded to the nearest one decimal place	3.9*
2	P_{SHnom}	kW	The nominal space heat output or a range of outputs (dependent on fuel types), rounded to the nearest one decimal place	3.9*
3	P_{Wnom}	kW	The nominal water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types), rounded to the nearest one decimal place	N/A
4	P_{part}	kW	The part load heat output or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	3.7*
5	P_{SHpart}	kW	The part load space heat output or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	3.7*
6	P_{Wpart}	kW	The part load water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	N/A
7	P_{slow}	kW	The heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	N/A
8	P_{SHslow}	kW	The space heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	N/A
9	P_{Wslow}	kW	The water heat output at slow combustion (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	N/A
10	$P_{acc in}$	kW	Accumulator heat input, in kW or W for kachelofen inset appliances only, rounded to the nearest one decimal place	N/A
11	$T_{acc in}$	°C	Temperature at the separate heat exchanger inlet, for kachelofen inset appliances only, rounded to the nearest integer	N/A
12	ζ_{acc}	Pa	The flow resistance of the separate heat exchanger as used in the test, for kachelofen inset appliances only, rounded to the nearest integer	N/A
13	η_{nom}	%	The appliance efficiency at nominal heat output, rounded to the nearest integer	87
14	η_{part}	%	The appliance efficiency at part load heat output, rounded to the nearest integer	87
15	η_S	%	The appliance seasonal space heating efficiency at nominal heat output, rounded to the nearest integer	77
16	EEl	-	The energy efficiency index, rounded to the nearest integer	116
17	CO_{nom} (13 % O ₂)	mg/m ³	Co emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	1175
18	CO_{part} (13 % O ₂)	mg/m ³	Co emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	974
19	CO_{slow} (13 % O ₂)	mg/m ³	Co emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	N/A
20	NO_{xnom} (13 % O ₂)	mg/m ³	Nox emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	91
21	NO_{xpart} (13 % O ₂)	mg/m ³	Nox emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	93
22	NO_{xslow} (13 % O ₂)	mg/m ³	Nox emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	N/A
23	OGC_{nom} (13 % O ₂)	mg/m ³	Hydrocarbon emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	83
24	OGC_{part} (13 % O ₂)	mg/m ³	Hydrocarbon emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	65
25	OGC_{slow} (13 % O ₂)	mg/m ³	Hydrocarbon emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	N/A
26	"PM _{nom} (13 % O ₂)"	mg/m ³	Particulate matter emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	29
27	"PM _{part} (13 % O ₂)"	mg/m ³	particulate matter emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	13



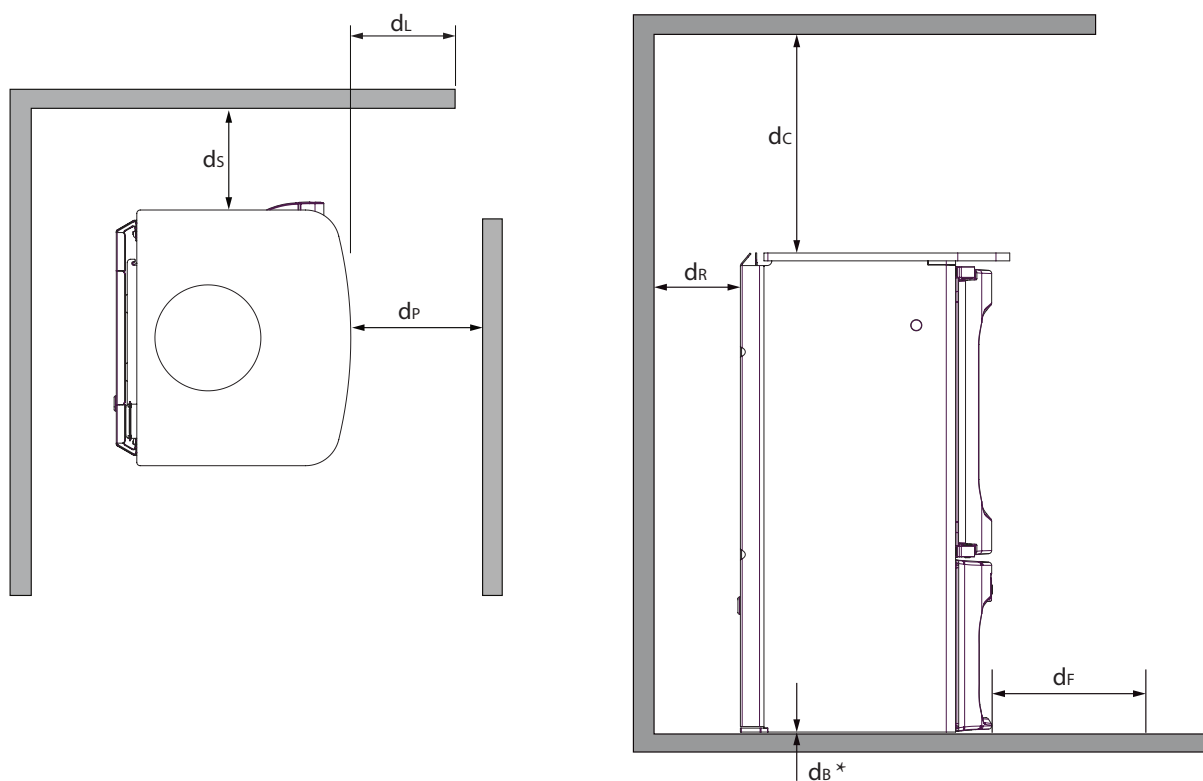
No.	Parameter	Unit	Explanation	Value
28	PM_{slow} (13 % O ₂)	mg/m ³	Particulate matter emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	N/A
29	P_{nom}	Pa	Minimum flue draught at nominal heat output, rounded to the nearest integer	12
30	P_{part}	Pa	Minimum flue draught at part load heat output if specified, rounded to the nearest integer	12
31	P_{slow}	Pa	Minimum flue draught at heat output at slow combustion if specified, rounded to the nearest integer	N/A
32	P_W	kPa (bar)	The permissible maximum water operating pressure, if applicable, to be given with 1 decimal	N/A
33	d_R	mm	The minimum distances from the rear to combustible material, rounded to the nearest integer	100
34	d_S	mm	The minimum distances from the sides to combustible material, rounded to the nearest integer	300
35	d_C	mm	The minimum distances from the top to combustible material in the ceiling, rounded to the nearest integer	750
36	d_P	mm	The minimum distances from the front to combustible material, rounded to the nearest integer	800
37	d_F	mm	The minimum distances from the front to combustible material in bottom front radiation area, rounded to the nearest integer	330
38	d_L	mm	The minimum distances from the front to combustible material in side front radiation area, rounded to the nearest integer	0
39	d_B	mm	The minimum distances below the bottom (not regarding feet) to combustible material, rounded to the nearest integer	5**
40	d_{non}	mm	The minimum distances to non-combustible walls, rounded to the nearest integer	- - - 19***
41	s	mm	Protective insulation according to manufacture r's instructions	0 0 0 - L.S.*** 0 0 0 0 S.S.***
42	e_{SB}^{el}	kW	The consumption of electrical auxiliary energy at standby, to be given with 3 decimals	0,003
43	e_{max}^{el}	kW	The consumption of electrical auxiliary energy at nominal heat output, to be given with 3 decimals	0,004
44	e_{min}^{el}	kW	The consumption of electrical auxiliary energy at part load heat output, to be given with 3 decimals	0,003
45	E, f	V, Hz	Power supply voltage, frequency, rounded to the nearest integer	100-240, 50/60
46	W_{max}	W	Maximum electric power input, rounded to the nearest integer	144
47	T_{snom}	°C	The flue gas outlet temperature at nominal heat output, rounded to the nearest integer	180
48	T_{spart}	°C	"The flue gas outlet temperature at part load heat output, rounded to the nearest integer (to be given for pellet operation only)"	171
49	T_{class}	-	Chimney designation according to the appropriate chimney standard	T400
50	$\phi_{f,g nom}$	g/s	The flue gas mass flow at nominal heat output, rounded to the nearest one decimal place	3,4
51	$\phi_{f,g part}$	g/s	The flue gas mass flow at part load heat output rounded to the nearest one decimal place (to be given for pellet operation only)	3,6
52	v_h	m ³ /h	The standing air loss, if specified, rounded to the nearest one decimal place	N/A
53	CON or INT	-	Whether the appliance is capable of continuous operation (con), whether the appliance is capable of intermittent operation (int)	INT
54	d_{out}	mm	The diameter of the flue gas outlet, rounded to the nearest integer	127
55	L, H, W	mm	The overall dimensions of the appliance (length, height, width), rounded to the nearest integer	343/500/ 385 (Low stand) 343/610/ 385 (Store stand)
56	m	kg	Mass of the appliance, rounded to the nearest integer (Packed)	64 (Low stand) 72 (Store stand)
57	m_{chim}	kg	The maximum load of a chimney the appliance may carry, to be rounded to the nearest integer	0
58		-	Meaning "read and follow the user operating instructions"	

* The test result is within the permissible deviation (0, + 10 %). The manufacturer's specification can therefore be confirmed.

** installation only permitted on a non-combustible floor. The specified dimension refers to the distance between non-combustible floor and the bottom of the roomheater.

***rear | side | ceiling | floor. Layer thickness of the reference insulation material (mineral wool according to AGI Q 132)

Please see table on Page 2 of 3 for figures.



* The stove must stand on a fireproof hearth. In the United Kingdom a 12mm fireproof hearth is sufficient for Store Stand models. Low Stand models require a constructional hearth due to the higher hearth temperatures that are generated. See page 15.

TECHNICAL DATASHEET AIRE 500



charnwood

EN 16510-1:2023

Model identifier(s): Charnwood Aire 500 Low Stand, Charnwood Aire 500 Store Stand

Test laboratory: RRF

Notified body no: 1625

Test report no: RRF – 1021 24 1580

Harmonized standards: EN16510-1:2023 EN 16510-2-1:2023

Designated fuel: Wood logs

Designation of appliance	Room sealed	Leakage declaration	Combustion air supply connection	Door closure	Tightness requirement
Type BE	[N.A.]	No	Yes	No specific requirement	No specific requirement

No.	Parameter	Unit	Explanation	Value
1	P_{NOM}	kW	The nominal heat output or a range of outputs (dependent on fuel types), rounded to the nearest one decimal place	5.6*
2	P_{SHnom}	kW	The nominal space heat output or a range of outputs (dependent on fuel types), rounded to the nearest one decimal place	5.6*
3	P_{Wnom}	kW	The nominal water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types), rounded to the nearest one decimal place	N/A
4	P_{part}	kW	The part load heat output or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	4.2*
5	P_{SHpart}	kW	The part load space heat output or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	4.2*
6	P_{Wpart}	kW	The part load water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	N/A
7	P_{slow}	kW	The heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	N/A
8	P_{SHslow}	kW	The space heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	N/A
9	P_{Wslow}	kW	The water heat output at slow combustion (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	N/A
10	$P_{\text{acc in}}$	kW	Accumulator heat input, in kW or W for kachelofen inset appliances only, rounded to the nearest one decimal place	N/A
11	$T_{\text{acc in}}$	°C	Temperature at the separate heat exchanger inlet, for kachelofen inset appliances only, rounded to the nearest integer	N/A
12	ζ_{acc}	Pa	The flow resistance of the separate heat exchanger as used in the test, for kachelofen inset appliances only, rounded to the nearest integer	N/A
13	η_{nom}	%	The appliance efficiency at nominal heat output, rounded to the nearest integer	87
14	η_{part}	%	The appliance efficiency at part load heat output, rounded to the nearest integer	84
15	η_{S}	%	The appliance seasonal space heating efficiency at nominal heat output, rounded to the nearest integer	77
16	EEL	-	The energy efficiency index, rounded to the nearest integer	116
17	CO_{nom} (13 % O ₂)	mg/m ³	CO emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	612
18	CO_{part} (13 % O ₂)	mg/m ³	CO emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	2665
19	CO_{slow} (13 % O ₂)	mg/m ³	CO emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	N/A
20	NO_{Xnom} (13 % O ₂)	mg/m ³	Nox emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	119
21	NO_{Xpart} (13 % O ₂)	mg/m ³	Nox emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	97
22	NO_{Xslow} (13 % O ₂)	mg/m ³	Nox emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	N/A
23	OGC_{nom} (13 % O ₂)	mg/m ³	Hydrocarbon emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	25
24	OGC_{part} (13 % O ₂)	mg/m ³	Hydrocarbon emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	224
25	OGC_{slow} (13 % O ₂)	mg/m ³	Hydrocarbon emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	N/A
26	"PM _{nom} (13 % O ₂)"	mg/m ³	Particulate matter emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	15
27	"PM _{part} (13 % O ₂)"	mg/m ³	particulate matter emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	32

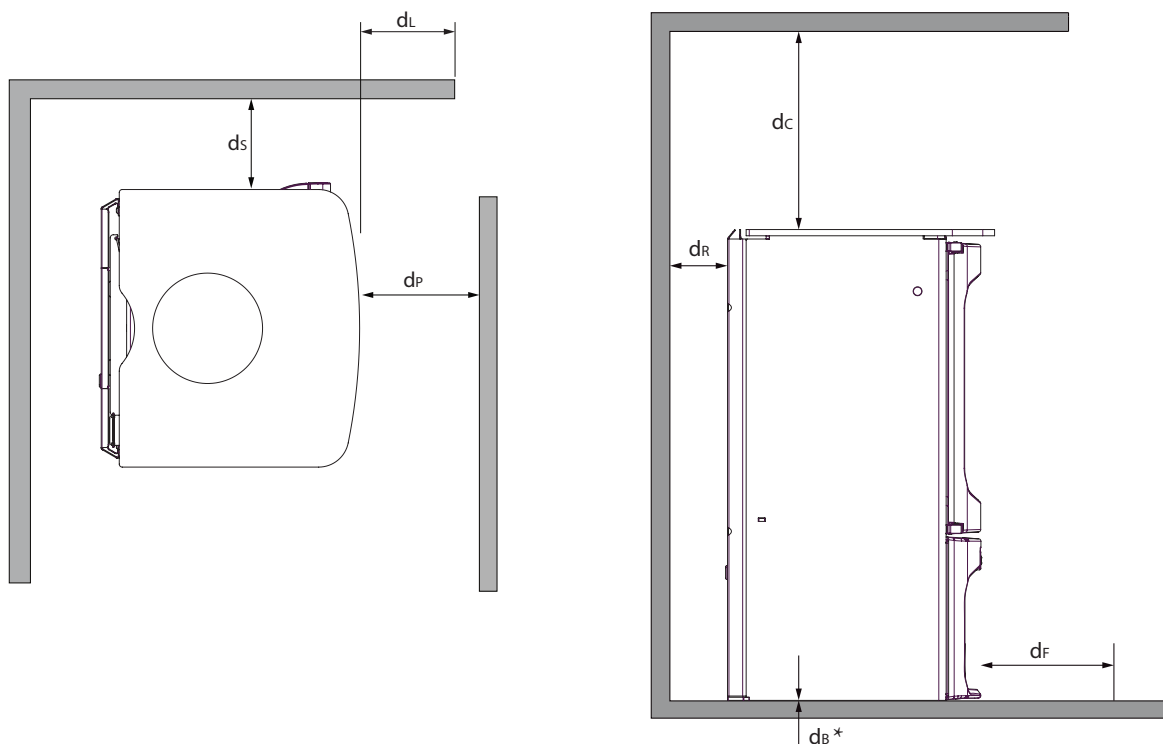
Page 1 of 3



No.	Parameter	Unit	Explanation	Value
28	PM_{slow} (13 % O ₂)	mg/m ³	Particulate matter emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	N/A
29	P_{nom}	Pa	Minimum flue draught at nominal heat output, rounded to the nearest integer	12
30	P_{part}	Pa	Minimum flue draught at part load heat output if specified, rounded to the nearest integer	9
31	P_{slow}	Pa	Minimum flue draught at heat output at slow combustion if specified, rounded to the nearest integer	N/A
32	P_W	kPa (bar)	The permissible maximum water operating pressure, if applicable, to be given with 1 decimal	N/A
33	d_R	mm	The minimum distances from the rear to combustible material, rounded to the nearest integer	250
34	d_S	mm	The minimum distances from the sides to combustible material, rounded to the nearest integer	350
35	d_C	mm	The minimum distances from the top to combustible material in the ceiling, rounded to the nearest integer	>750
36	d_P	mm	The minimum distances from the front to combustible material, rounded to the nearest integer	1000
37	d_F	mm	The minimum distances from the front to combustible material in bottom front radiation area, rounded to the nearest integer	400
38	d_L	mm	The minimum distances from the front to combustible material in side front radiation area, rounded to the nearest integer	0
39	d_B	mm	The minimum distances below the bottom (not regarding feet) to combustible material, rounded to the nearest integer	25**
40	d_{non}	mm	The minimum distances to non-combustible walls, rounded to the nearest integer	- - - 25***
41	s	mm	Protective insulation according to manufacture r's instructions	0 0 0 0***
42	e_{SB}^{el}	kW	The consumption of electrical auxiliary energy at standby, to be given with 3 decimals	0,003
43	e_{max}^{el}	kW	The consumption of electrical auxiliary energy at nominal heat output, to be given with 3 decimals	0,004
44	e_{min}^{el}	kW	The consumption of electrical auxiliary energy at part load heat output, to be given with 3 decimals	0,003
45	E, f	V, Hz	Power supply voltage, frequency, rounded to the nearest integer	100-240, 50/60
46	W_{max}	W	Maximum electric power input, rounded to the nearest integer	144
47	T_{snom}	°C	The flue gas outlet temperature at nominal heat output, rounded to the nearest integer	211
48	T_{spart}	°C	"The flue gas outlet temperature at part load heat output, rounded to the nearest integer (to be given for pellet operation only)"	190
49	T_{class}	-	Chimney designation according to the appropriate chimney standard	T400
50	$\varphi_{f,g nom}$	g/s	The flue gas mass flow at nominal heat output, rounded to the nearest one decimal place	4,8
51	$\varphi_{f,g part}$	g/s	The flue gas mass flow at part load heat output rounded to the nearest one decimal place (to be given for pellet operation only)	4,9
52	v_h	m ³ /h	The standing air loss, if specified, rounded to the nearest one decimal place	N/A
53	CON or INT	-	Whether the appliance is capable of continuous operation (con), whether the appliance is capable of intermittent operation (int)	INT
54	d_{out}	mm	The diameter of the flue gas outlet, rounded to the nearest integer	161
55	L, H, W	mm	The overall dimensions of the appliance (length, height, width), rounded to the nearest integer	430/600/472 (Low Stand) 430/755/472 (Store Stand)
56	m	kg	Mass of the appliance, rounded to the nearest integer (Packed)	109 (Low stand) 120 (Store stand)
57	m_{chim}	kg	The maximum load of a chimney the appliance may carry, to be rounded to the nearest integer	0
58		-	Meaning "read and follow the user operating instructions"	

* The test result is within the permissible deviation (0, + 10 %). The manufacturer's specification can therefore be confirmed.
 ** installation only permitted on a non-combustible floor. The specified dimension refers to the distance between non-combustible floor and the bottom of the roomheater.
 ***rear | side | ceiling | floor. Layer thickness of the reference insulation material (mineral wool according to AGI Q 132)

Please see table on Page 2 of 3 for figures.



* The stove must stand on a fireproof hearth. In the United Kingdom a 12mm fireproof hearth is sufficient for Store Stand models. Low Stand models require a constructional hearth due to the higher hearth temperatures that are generated. See page 15.

TECHNICAL DATASHEET AIRE 700



charnwood

EN 16510-1:2023

Model identifier(s): Charnwood Aire 700 Low Stand, Charnwood Aire 700 Store Stand

Test laboratory: RRF

Notified body no: 1625

Test report no: RRF – 1021 24 1609

Harmonized standards: EN16510-1:2023 EN 16510-2-1:2023

Designated fuel: Wood logs

Designation of appliance	Room sealed	Leakage declaration	Combustion air supply connection	Door closure	Tightness requirement
Type BE	[N.A.]	No	Yes	No specific requirement	No specific requirement

No.	Parameter	Unit	Explanation	Value
1	P_{NOM}	kW	The nominal heat output or a range of outputs (dependent on fuel types), rounded to the nearest one decimal place	6,6*
2	P_{SHnom}	kW	The nominal space heat output or a range of outputs (dependent on fuel types), rounded to the nearest one decimal place	6,6*
3	P_{Wnom}	kW	The nominal water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types), rounded to the nearest one decimal place	N/A
4	P_{part}	kW	The part load heat output or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	4,6*
5	P_{SHpart}	kW	The part load space heat output or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	4,6*
6	P_{Wpart}	kW	The part load water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	N/A
7	P_{slow}	kW	The heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	N/A
8	P_{SHslow}	kW	The space heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	N/A
9	P_{Wslow}	kW	The water heat output at slow combustion (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	N/A
10	$P_{\text{acc in}}$	kW	Accumulator heat input, in kW or W for kachelofen inset appliances only, rounded to the nearest one decimal place	N/A
11	$T_{\text{acc in}}$	°C	Temperature at the separate heat exchanger inlet, for kachelofen inset appliances only, rounded to the nearest integer	N/A
12	ζ_{acc}	Pa	The flow resistance of the separate heat exchanger as used in the test, for kachelofen inset appliances only, rounded to the nearest integer	N/A
13	η_{nom}	%	The appliance efficiency at nominal heat output, rounded to the nearest integer	88
14	η_{part}	%	The appliance efficiency at part load heat output, rounded to the nearest integer	87
15	η_{S}	%	The appliance seasonal space heating efficiency at nominal heat output, rounded to the nearest integer	78
16	EEL	-	The energy efficiency index, rounded to the nearest integer	118
17	$\text{CO}_{\text{nom}} (13\% \text{ O}_2)$	mg/m ³	Co emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	599
18	$\text{CO}_{\text{part}} (13\% \text{ O}_2)$	mg/m ³	Co emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	1882
19	$\text{CO}_{\text{slow}} (13\% \text{ O}_2)$	mg/m ³	Co emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	N/A
20	$\text{NO}_{\text{Xnom}} (13\% \text{ O}_2)$	mg/m ³	Nox emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	108
21	$\text{NO}_{\text{Xpart}} (13\% \text{ O}_2)$	mg/m ³	Nox emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	105
22	$\text{NO}_{\text{Xslow}} (13\% \text{ O}_2)$	mg/m ³	Nox emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	N/A
23	$\text{OGC}_{\text{nom}} (13\% \text{ O}_2)$	mg/m ³	Hydrocarbon emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	24
24	$\text{OGC}_{\text{part}} (13\% \text{ O}_2)$	mg/m ³	Hydrocarbon emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	143
25	$\text{OGC}_{\text{slow}} (13\% \text{ O}_2)$	mg/m ³	Hydrocarbon emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	N/A
26	"PM _{nom} (13 % O ₂)"	mg/m ³	Particulate matter emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	17
27	"PM _{part} (13 % O ₂)"	mg/m ³	particulate matter emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	23



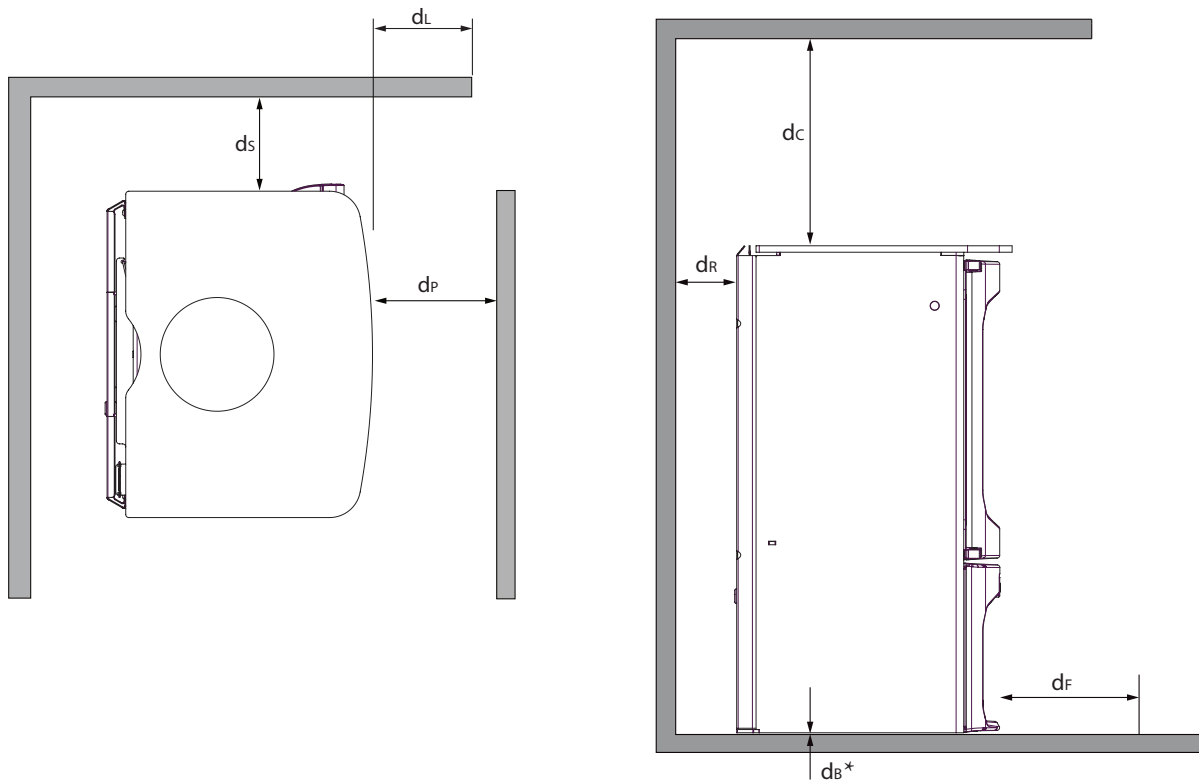
No.	Parameter	Unit	Explanation	Value
28	PM_{slow} (13 % O ₂)	mg/m ³	Particulate matter emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	N/A
29	P_{nom}	Pa	Minimum flue draught at nominal heat output, rounded to the nearest integer	12
30	P_{part}	Pa	Minimum flue draught at part load heat output if specified, rounded to the nearest integer	8
31	P_{slow}	Pa	Minimum flue draught at heat output at slow combustion if specified, rounded to the nearest integer	N/A
32	P_W	kPa (bar)	The permissible maximum water operating pressure, if applicable, to be given with 1 decimal	N/A
33	d_R	mm	The minimum distances from the rear to combustible material, rounded to the nearest integer	350
34	d_S	mm	The minimum distances from the sides to combustible material, rounded to the nearest integer	350
35	d_C	mm	The minimum distances from the top to combustible material in the ceiling, rounded to the nearest integer	>750
36	d_p	mm	The minimum distances from the front to combustible material, rounded to the nearest integer	1000
37	d_F	mm	The minimum distances from the front to combustible material in bottom front radiation area, rounded to the nearest integer	400
38	d_L	mm	The minimum distances from the front to combustible material in side front radiation area, rounded to the nearest integer	0
39	d_B	mm	The minimum distances below the bottom (not regarding feet) to combustible material, rounded to the nearest integer	25**
40	d_{non}	mm	The minimum distances to non-combustible walls, rounded to the nearest integer	N/A
41	s	mm	Protective insulation according to manufacture r's instructions	0 0 0 0***
42	el_{SB}	kW	The consumption of electrical auxiliary energy at standby, to be given with 3 decimals	0,003
43	el_{max}	kW	The consumption of electrical auxiliary energy at nominal heat output, to be given with 3 decimals	0,003
44	el_{min}	kW	The consumption of electrical auxiliary energy at part load heat output, to be given with 3 decimals	0,003
45	E, f	V, Hz	Power supply voltage, frequency, rounded to the nearest integer	100-240, 50/60
46	W_{max}	W	Maximum electric power input, rounded to the nearest integer	144
47	T_{snom}	°C	The flue gas outlet temperature at nominal heat output, rounded to the nearest integer	220
48	T_{spart}	°C	"The flue gas outlet temperature at part load heat output, rounded to the nearest integer (to be given for pellet operation only)"	187
49	T_{class}	-	Chimney designation according to the appropriate chimney standard	T400
50	$\varphi_{f,g nom}$	g/s	The flue gas mass flow at nominal heat output, rounded to the nearest one decimal place	4,6
51	$\varphi_{f,g part}$	g/s	The flue gas mass flow at part load heat output rounded to the nearest one decimal place (to be given for pellet operation only)	4,5
52	V_h	m ³ /h	The standing air loss, if specified, rounded to the nearest one decimal place	N/A
53	CON or INT	-	Whether the appliance is capable of continuous operation (con), whether the appliance is capable of intermittent operation (int)	INT
54	d_{out}	mm	The diameter of the flue gas outlet, rounded to the nearest integer	161
55	L, H, W	mm	The overall dimensions of the appliance (length, height, width), rounded to the nearest integer	427/600/525 (Low stand) 427/755/525 (Store stand)
56	m	kg	Mass of the appliance, rounded to the nearest integer (Packed)	116 (Low stand) 129 (Store stand)
57	m_{chim}	kg	The maximum load of a chimney the appliance may carry, to be rounded to the nearest integer	0
58		-	Meaning "read and follow the user operating instructions"	

* The test result is within the permissible deviation (0, + 10 %). The manufacturer's specification can therefore be confirmed.

** installation only permitted on a non-combustible floor. The specified dimension refers to the distance between non-combustible floor and the bottom of the roomheater.

***rear | side | ceiling | floor. Layer thickness of the reference insulation material (mineral wool according to AGI Q 132)

Please see table on Page 2 of 3 for figures.



* The stove must stand on a fireproof hearth. In the United Kingdom a 12mm fireproof hearth is sufficient for Store Stand models. Low Stand models require a constructional hearth due to the higher hearth temperatures that are generated. See page 15.



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EN16510-2-1:2022

ROOMHEATERS FIRED BY SOLID FUEL

Model:	Aire 300
EC Certificate of conformity no:	AJ11-CPD-2025 & AJL-CPD-2025
Fuel type:	WOOD LOGS
Rated space heating thermal output:	3.9kW
(2) NOX (mg/Nm ³)	93
(1) OGC (mg/Nm ³)	65
(2) CO (mg/Nm ³):	974
Mean flue gas temperature:	180°C
Energy efficiency:	86.7%*
(2) Particles (mg/m ³)	13
Minimum distance to combustible materials with uninsulated flue	
Side:	280
Rear:	180
Fulfilled requirements: BStV of the City of Munich and the City of Regensburg FBStVO of the City of Aachen and the City of Düsseldorf 1.and 2. level of 1. BImSchV of Germany	✓

(1) Decision rule 1: A positive conformity statement is made for values within the specification (requirement) but also within the uncertainty range (measurement uncertainty for the respective value). The conformity statement was made without taking into account the measurement uncertainty.

(2) Decision rule 3: A positive conformity statement is made for values within the specification (requirement) as well as for values in the negative and positive tolerance range. A negative conformity statement is made for values out of specification and outside of the positive tolerance range. This means that the measurement uncertainty is only positively considered.

* Note: These figures were achieved sampling after the first 500mm of flue.



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ROOMHEATERS FIRED BY SOLID FUEL

Model:	Aire 500
EC Certificate of conformity no:	AG11-CPD-2025 & AGL-CPD-2025
Fuel type:	WOOD LOGS
Rated space heating thermal output:	5.6kW
(2) NOX (mg/Nm ³)	119
(1) OGC (mg/Nm ³)	25
(2) CO (mg/Nm ³):	612
Mean flue gas temperature:	176°C
Energy efficiency:	87%*
(2) Particles (mg/m ³)	15
Minimum distance to combustible materials with uninsulated flue	
Side:	350
Rear:	250
Fulfilled requirements: BStV of the City of Munich and the City of Regensburg FBStVO of the City of Aachen and the City of Düsseldorf 1.and 2. level of 1. BImSchV of Germany	✓

(1) Decision rule 1: A positive conformity statement is made for values within the specification (requirement) but also within the uncertainty range (measurement uncertainty for the respective value). The conformity statement was made without taking into account the measurement uncertainty.

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* Note: These figures were achieved sampling after the first 500mm of flue.



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ROOMHEATERS FIRED BY SOLID FUEL

Model:	Aire 500 (UK only)
EC Certificate of conformity no:	AG11-CPD-UK-2025 & AGL-CPD-UK-2025
Fuel type:	WOOD LOGS
Rated space heating thermal output:	5kW
(2) NOX (mg/Nm ³)	122
(1) OGC (mg/Nm ³)	32
(2) CO (mg/Nm ³):	748
Mean flue gas temperature:	176°C
Energy efficiency:	87% *
(2) Particles (mg/m ³)	18
Minimum distance to combustible materials with uninsulated flue	
Side:	350
Rear:	250

(1) Decision rule 1: A positive conformity statement is made for values within the specification (requirement) but also within the uncertainty range (measurement uncertainty for the respective value). The conformity statement was made without taking into account the measurement uncertainty.

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* Note: These figures were achieved sampling after the first 500mm of flue.



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ROOMHEATERS FIRED BY SOLID FUEL

Model:	Aire 700
EC Certificate of conformity no:	AL11-CPD-2025 & ALL-CPD-2025
Fuel type:	WOOD LOGS
Rated space heating thermal output:	6.6kW
(2) NOX (mg/Nm ³)	108
(1) OGC (mg/Nm ³)	24
(2) CO (mg/Nm ³):	599
Mean flue gas temperature:	183°C
Energy efficiency:	88%*
(2) Particles (mg/m ³)	17
Minimum distance to combustible materials with uninsulated flue	
Side:	350mm
Rear:	350mm
Fulfilled requirements: BStV of the City of Munich and the City of Regensburg FBStVO of the City of Aachen and the City of Düsseldorf 1.and 2. level of 1. BImSchV of Germany	✓

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* Note: These figures were achieved sampling after the first 500mm of flue.

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