



# Symphony

SOLO 5  
ECO STOVE



For your convenience this appliance  
is fitted with Skantag





# Symphony

SOLO 5  
ECO STOVE

## Wood Burning Stove

### USER GUIDE



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## 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:  
<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 Solo 5 has been recommended for burning wood logs in a smoke control area.

Thank you for purchasing your new wood burning stove

Please read these instructions carefully

Connect to the **Skantag** on your data plate via your camera phone for more information, instructional videos, installation, service history and lots more

| Item                                                                                                                                                                                                                                    | Solo 5                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Weight                                                                                                                                                                                                                                  | 65Kgs                 |
| Dims W x D x H                                                                                                                                                                                                                          | 490mm x 340mm x 555mm |
| Flue size                                                                                                                                                                                                                               | 125mm                 |
| Wood log results - 0.75 hr refuels - approx 1 kg                                                                                                                                                                                        |                       |
| Efficiency                                                                                                                                                                                                                              | 83.90%                |
| Output                                                                                                                                                                                                                                  | 5kW                   |
| Mean CO at 13% O <sub>2</sub>                                                                                                                                                                                                           | 0.08                  |
| Flue temp                                                                                                                                                                                                                               | 228 Deg C             |
| Please note that details and specifications contained herein are correct at the time of going to print. All data is applicable to wood burning use only. We reserve the right to change specifications at any time without prior notice |                       |

### 3. Important information about installing and using the stove



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



The stove must be installed by a registered installer or approved by your local building control officer.



Only use for domestic heating purposes only.



Burn only approved fuels (Wood fuel). Do not use petroleum-based products or use as an incinerator.



This stove will become very hot whilst in operation and due care should be taken. Thick gloves should be used to operate the primary/secondary controls or reaching inside the stove to position fuel or remove ash. Do not place flammable objects on or near the stove.



It is possible to fire the stove beyond its design capacity. This could damage the stove, so watch for signs of overfiring - if any part of the stove starts to glow red, the stove is in an overfire situation, and the controls should be adjusted accordingly. Never leave the stove unattended for long periods without first adjusting the controls to a safe setting. Careful air supply control should be always exercised.



The stove must NOT be installed into a chimney that serves any other appliance and is suitable for intermittent burning.



Do not make unauthorised changes or modifications to the stove



The stove and chimney flue must be regularly cleaned. It is especially important to check for blockages following a prolonged shutdown period. It is recommended that the stove and flue is regularly maintained by a competent

## 4 . Unpacking and assembly



Warning! Due to the weight of the stove, it is recommended two people perform the unpacking and assembly

Before assembly, please check the contents and data plate (Attached to the rear right leg)

Within the stove

1. Heat resistant gloves
2. Instructions
3. Vermiculite set (8 bricks)
4. Top metal baffle

### Assembly

Unpack the stove and remove packing materials. Open the door and heat resistant gloves and instructions from inside the stove.

There are 4 off levelling bolts on the bottom of each leg, take care when adjusting so as not to damage the hearth

## 5 . Installation of the stove

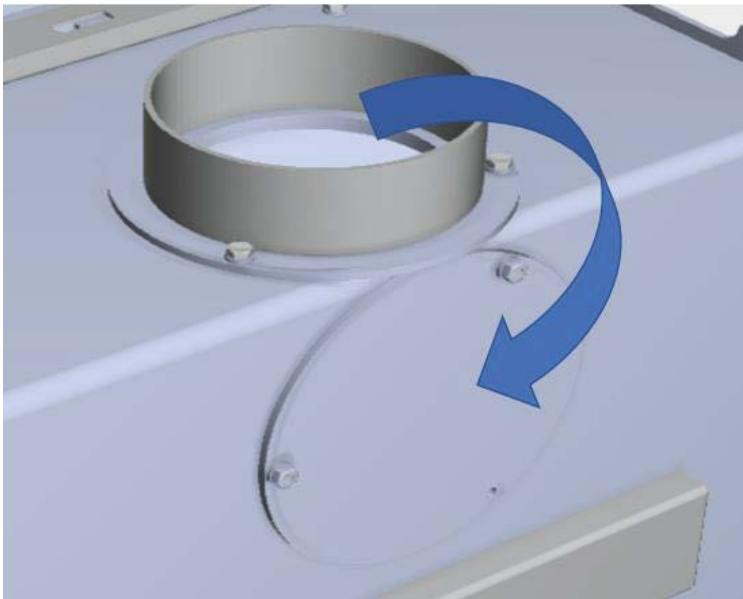
Please read the instructions carefully



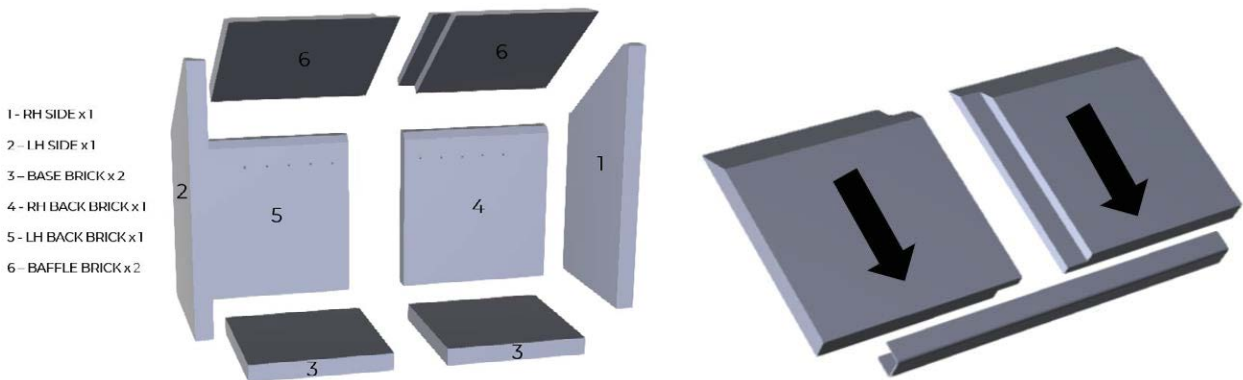
For your safety it is very important that your stove is correctly installed. Our Stoves cannot accept any responsibility for any fault arising through incorrect installation or use.

The unit can be top or rear instillation.

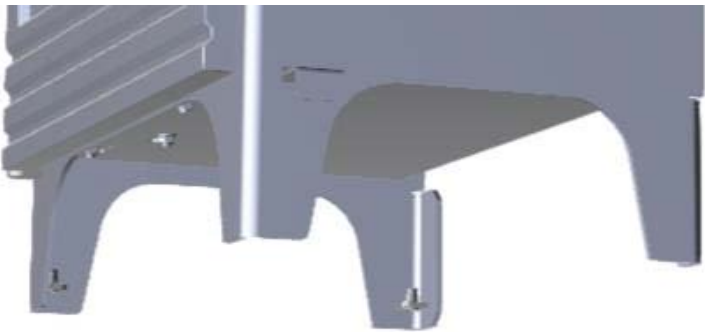
Remove the 3 M6 nuts from the flue collar and the nuts from the rear blanking plates and swop around attach again using the M6 nuts



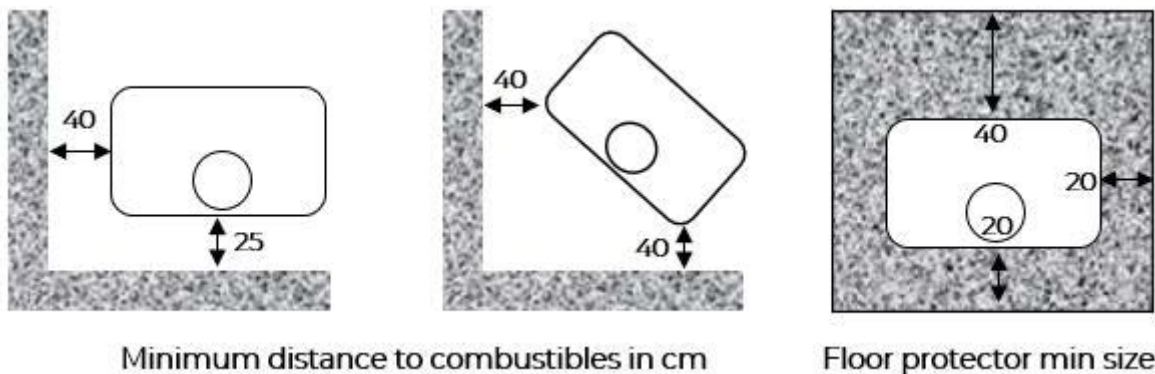
The vermiculite kit comprises of 8 bricks as per diagram, there is a metal channel which the 2 top baffle bricks are inserted into before instillation.



There are 4 off levelling bolts on each foot of the stove – Adjust accordingly to suit the hearth



**Material Clearances** The stove must have a minimum clearance of 400mm to combustibles as below



## Clearances to combustible materials

When using single wall flue pipe, there must be a clearance of at least 3 times the diameter of the flue pipe (e.g., 125mm diameter pipe = 375mm minimum clearance) from any combustible material. This distance may be reduced by using an appropriate heat shield in line with Building regulations document J and maintaining a 12mm air gap between the shield and the combustible material. Curtains and soft furnishings should be a minimum of 1m away from the appliance. Adequate space should be provided for servicing the appliance. Please take this into account that the rising heat could affect artwork mounted above the Stove. A suitable fire guard should be used to provide additional protection.

**Never allow young children to be left unsupervised in a room containing a hot stove.**

## Clearances to non-combustible materials

If the stove is to be installed in a non-combustible recess it is recommended that 40mm clearance is left at the back and 60mm to the sides for maintenance and to allow air to circulate around the stove and 150mm above the Stove.

A clearance of 150mm at the sides will an improved heat output and will ease the maintenance and servicing of the Stove.

## Floor

National and local building regulations must be complied with when considering the floor or hearth where the stove is to be installed. The floor must be capable of bearing the weight of the stove and the appliance is suitable for a 12mm heath.

## The Chimney

The stove is supplied with a flue pipe connector for top or rear mounting with the fixing screws supplied. The stove should never be connected to a shared chimney/flue system

## Fume Emissions

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

Properly installed and operated, this stove will not emit fumes. Occasional fumes from de-ashing and refuelling may occur. Persistent fume emission must not be tolerated. If fume emission persists, the following immediate action should be taken:

1. Open doors and windows to ventilate room.
2. Let the fire out or eject and safely dispose of fuel from the stove.
3. Check for flue chimney blockage and clean if required.
4. Do not attempt to re-light the fire until the cause has been identified and corrected.

If necessary, seek professional advice.

## 6. Operating instructions

### Controls

There are 2 air controls on the right-hand side of the appliance. Pushing to the left closes the air intake.

1 Primary air which on the wood burning model

Is only used to boost ignition

2 Secondary air which is used to control the appliance which also keeps the glass clean. Connect to your

Appliance **Skantag** to see instructional video



The temperature reached by these items during operation may cause an injury to an end- user. As these are intended to be adjusted during operation, it is recommended that protective gloves are worn when handling these parts.

### Fuel

This stove will function with wood fuel, but in general all fuel should be dry, and timber should be well seasoned so as to have a moisture content below 20%. The use of damp wood will result in more soot and tar deposits being left in the chimney, flue and stove, and will not release heat if thermal energy is being used to drive out moisture from the fuel.

**DO NOT BURN** wet or unseasoned wood, construction timber, painted or treated wood, driftwood or manufactured board products. Doing so will result in the wood burning inefficiently and excess smoke, soot and tar will be produced. This will coat and damage the internal components of the stove and flue and could result in a chimney fire.

### Before lighting

If using for the first time or following a long period out of use check that the flue is clear and unobstructed.

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If using for the first time or following a long period out of use check that the flue is clear and unobstructed.



The heat resistant paint will be curing for the 1<sup>st</sup> few times the appliance is used and may give off smoke and odours, this is normal for this type of appliance. **Keep the room well ventilated until the odour has gone. To aid the curing process and not damage the stove finish please keep the stove at a moderate heat.**

### Lighting a wood fire

Place 2 or 3 firelighters or screwed up newspaper onto the fire grate with about 1 kg of kindling and light the fire with a taper.

When the firelighters or newspaper are burning, leave the door ajar about 1 to 2 cm to achieve a good draw and avoid condensation. Allow the burning kindling to warm up the chimney.

After 2 to 5 minutes the chimney should be warm enough create a good draw and the door can be closed but leave air control open (the control wheel on the door). After a few more minutes this primary air supply can be closed.

Once the kindling has formed a good bed of glowing embers the stove can be refuelled with 4 or 5 pieces of wood with an approximate size of 200mm by 100mm. *(do not be tempted to overfill the firebox and risk fuel falling onto the glass or out the fire as the door is opened)*

### WARNING:



When opening the door always open gently for the first 2 to 3 cm to allow the pressure to equalise and stop smoke from escaping.

The stove should not be operated with either door left open for long periods.

The stove door should never be left open when the stove is in use.

### Refuelling Procedure

Under normal circumstances and flu draft conditions, expect to re-fuel the appliance every 45 to 60 minutes

Always refuel onto hot embers. 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 and ash 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 excessive smoke

### WARNING:



Do not leave the appliance unattended until the flames are well established on the new logs

It is important to follow these instructions in order to achieve a clean burn and maximise the efficiency of the stove.

The stove must not be overloaded with fuel. Overloading can cause excess smoke, Following the above procedure will maximise the performance of the stove. Typically, the three logs will burn with an attractive flame pattern and will last for about an hour (although this will depend on weather conditions, e.g., whether it is windy, and specific installations, e.g., chimney dimensions)

## **WARNING:**



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 and ash 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 excessive smoke

The maximum amount of fuel specified in this manual should not be exceeded, overloading can cause excess smoke

Operation with the door open can cause excess smoke. The appliance must not be operated with the appliance door left open except as directed in the instructions

Operation with the air controls or dampers open can cause excess smoke. The appliance must not be operated with air controls or dampers door left open except as directed in the instructions

### **De-ashing the stove**

Before de-ashing the stove, make sure that all the fuel has burned out and the ashes has cool down, then use a brush let the ash fall from bed of the fire into the ash pan underneath. Then take out of the ashpan .in this case, if you have the vacuum cleaner, Sucked the ask into the vacuum cleaner directly.

If the stove is still burning when you want to de-ash the stove, make sure that you take a heat resistant glove and use special tools for cleaning. Brush and vacuum cleaner are not suitable in this case.

## **7.Guidance on safe operation**

### **Fire can be very dangerous**

During operation, the stove and all the fittings (door handles and controls) get very hot.

### **Do not over fire the stove.**

It is possible to fire the stove to such an extent that damage may occur. Look out for parts of the stove or flue glowing red hot. If such a situation occurs adjust the air supply accordingly to reduce the burning rate.

### **Chimney fire**

In the event of a chimney fire:

Shut all air controls immediately

Raise the alarm and evacuate the building

Call the fire brigade

Do not re-enter the building

### **Fumes**

If installed, operated and maintained correctly the stove will not emit fumes into the room other than occasionally very small amounts when re-fuelling or de-ashing.

If fumes are being emitted during normal operation, ventilate the room by opening all doors and windows.

Let the fire burn out

Leave the room

Check the stove, flue, and chimney for blockages

Do not re-use the stove until the cause of the problem has been identified and rectified.

If required seek expert help.

### **Adverse weather conditions**

In a small number of installations, very occasionally in specific weather conditions (direction of wind) the draw of the chimney may be affected causing a downdraught and fumes to be emitted into the room

If this is the case the stove should not be used, and advice sought from a professional flue installer who would be able to advise on possible solutions such as an anti-downdraught cowl.

## **8.Maintenance**

### **Cleaning**

The inside of the stove may require regular cleaning, especially during periods of peak use, the frequency of this being indicated by experience. It is advisable to wear a dust mask, protective gloves, and safety glasses when cleaning.

Use a stiff brush and industrial type vacuum cleaner to dislodge and remove as much material as possible, starting at the top of the stove and working down to the bottom. Particular attention should be given to the air inlet controls which can become obstructed. A CVAC Ash Can filter can vacuum cleaner is ideal for this process from your local distributor. On no account should unauthorised spare parts be used.

The stove and flue way should be inspected and maintained when in a cold condition. No unauthorised modification of this product should be carried out. This stove requires regular maintenance by a competent engineer.

### **Stove body**

The stove is finished with a heat-resistant paint which can be cleaned with a soft brush. Wait until the stove has cooled down before doing this. This finish can be renovated with stove paint from authorised supplier, although the paint may not be an exact match and it may be necessary to repaint the complete stove/

If the stove is purely ornamental, painting will provide a durable, attractive finish. If the stove is used for heating, a high temperature heat resistant paint must be used, in either aerosol or brush applied form. Should rust become apparent, clean thoroughly with a wire brush and apply a suitable anti-rust treatment.

During prolonged periods out of use, the air inlets should be left open and the door left slightly ajar in order to circulate fresh air and discourage condensation from forming which could encourage corrosion.

### **Fire Rope**

Check the rope around the door and glass, if rope is becoming detached, replace with rope approved for this purpose.

Inspect the fireproof door seals where fitted, to ensure there is an effective seal around the door and re-fix it if loose using stove rope adhesive. If in poor condition it should be replaced.

### **Cleaning the stove**

Clean the outside of the stove with a soft brush.

Note that if required the flue can be accessed for cleaning from inside the stove

## **Stove glass**

Clean any glass panels when cool, avoiding abrasive substances which could scratch the glass and make subsequent cleaning more difficult. Wet logs against a heated glass, a badly aimed poker or heavy slamming of the doors could crack the glass panels. The glass will not fracture with heat. Never replace any broken glass with glass not approved by MAC Metalcraft.

The window glass should remain clean during normal use, but it can become blackened if the stove is being operated with either damp fuels or at a slow burn rate. The blackening may be dispersed by burning firefly at a much higher temperature, or it may be cleaned off using specialist glass cleaner.

In the event of the glass being broken, it can be removed by unscrewing the retaining clips, taking care not to damage the fireproof seal. The replacement glass should be carefully placed against the seal and the retaining clips re-tensioned. Take care to tension these evenly or there is a risk of breaking the new glass pane.

## **Chimney**

It is important to have the chimney cleaned at least once a year.

Regular inspection and cleaning of the internal components of the stove can indicate if the chimney requires more frequent cleaning.

If the stove has been unused for an extended period (during the summer) the chimney should be checked by a competent person before use.

### **Note**

All parts that are in direct contact with the fire (Baffle, back or side air boxes) are considered as normal wear parts. Their life will depend on how vigorously the stove is operated and they must be inspected and maintained on a regular basis. If they become worn, damaged, or not positioned correctly, non-wear parts such as the stove top and sides will be exposed to excessive heat and may be damaged. Only use replacement parts recommended by the manufacturer.

## **9.Fault Finding**

### **Fire will not burn**

The fuel is too wet and not suitable

Air inlets to the stove are blocked

The flue is blocked or restricted

Inadequate air supply into the room

### **Soot builds up on glass**

Fuel is too wet

Fuel pieces are too large and "smouldering" rather than burning.

The stove operating temperature is too low

The stove is being run too "slow" with not enough air

Poor chimney draft

### **Excessive wear on internal parts**

Stove fired too vigorously

Too little air passing through the bottom grate

Use of wood that is too dry (e.g., wood from old furniture)





## UKCA

Your appliance has been independently tested by a UCAS laboratory in the UK

You will find the below data label attached to the rear right hand leg of your appliance

|                                                                                           |                                                                                    |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| EN13240:2001/EN13240 A2:2004<br>Model: Symphony 5                                         |  |
| Serial Number : _____                                                                     |                                                                                    |
| Intermittent Operation<br>Distance to Combustible Material: Side: 60cm<br>Back: 60cm      |                                                                                    |
| Efficiency                                                                                | Wood Logs 83.9%                                                                    |
| Flue Gas Temperature                                                                      | Wood Logs 228°C                                                                    |
| CO Concentration<br>Combustion Products                                                   | Wood Logs 0.08%                                                                    |
| Manufacturer:<br>M.A.C Metalcraft<br>Rock Pottery Yard,<br>Bank St,<br>Mexborough S64 9LL |  |

Customer Guide



 SCAN OR TAP

CHECK FOR:  
Manual  
Warranty  
Videos  
Spares  
Service History

CONTACT





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