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## **SOLID FUEL STOVE**

**ALFA 55**



**Kitchen Stove Installation and Operation Manual**



Figure 1

## ALFA 55 Kitchen Stove

1. Stove cover
2. Cooktop frame
3. Firebox door
4. Ash pan door
5. Oven door
6. Fuel box
7. Draft regulator lever

## KITCHEN STOVE INSTALLATION, USE AND OPERATING INSTRUCTIONS

These installation, use and operating instructions are applicable only for the following kitchen stove type:

### ALFA 55

#### Before using the stove for the first time:

\* In order to ensure uninterrupted operation of the stove, you must carefully read these Instructions before using the stove for the first time and comply with the specified recommendations.

\* Use only the recommended types of fuel, such as logs and brown coal briquettes. In connection to the allowed types of fuel, please refer to 1<sup>st</sup> Federal Emission Protection Decree.

\* Required discharge pressure in the chimney under normal operating load must equal 12 Pa. For discharge pressure exceeding 15 Pa, a damper needs to be installed inside the draft air duct.

\* Inside the room where the stove is to be installed, sufficient fresh air supply needs to be provided. If windows and doors in the room are well sealed when shut, or if air consuming appliances are installed in the same room (such as extractor hoods, tumble dryers etc.) fresh air should be occasionally introduced into the room (by opening the doors and windows). In any event, before installing the stove, consult a chimney sweeper.

\* Combustible materials cannot be disposed in the ash pan. Ash layer height cannot exceed the height of the side walls.

Firebox and ash pan door must be kept closed at all times (except while lighting the fire, adding fuel and removing ash), so as to prevent escape of hot gas.

Modifications cannot be made to the stove, unless original parts are used which have been made available and tested by our company, or if modifications are made by a representative of the manufacturer's customer service.

In the event of fire inside the flue duct, keep the stove doors closed and shut the air regulators. Never extinguish the fire inside the flue duct using water. An explosion may occur inside the flue duct due to rapid formation of vapor. In the event of an emergency, call the fire department!

In the event of faulty operation, shut all air regulators and do not add any more fuel until the necessary repairs are done.

During construction of the structure and the chimney, relevant civil engineering and fire protection regulations must be complied with, as well as all local, national and European regulations and standards.

## SPECIFICATIONS

	ALFA 55
Nominal heating power.....	5 KW
Flue gas temperature (logs/ brown coal briquettes).....	195/175 °C
Flue gas flow (logs/ brown coal briquettes).....	8,8/8,4 g/s
Necessary pressure (logs/ brown coal briquettes).....	12/13 Pa
Stove dimensions (width x depth x height) ).....	965 x 612 x 755 mm
Oven dimensions (width x depth x height) .....	550 x 540 x 195 mm
Flue duct connection diameter .....	120 mm
Height from floor to center of duct connection.....	bočno 590 mm
Weight.....	91 kg

## 1. STOVE INSTALLATION

The stove must be installed in accordance with applicable civil engineering regulations and fire protection regulations.

Connecting the stove to the chimney is made laterally and from above, whereas, selection between the left or the right side is optional.

The stove must be placed in a horizontal position.

If the floor is made of combustible material (wood, plastics, carpeting...), make sure to place a protective underlay made of steel, copper or other fire-resistant material. The dimensions of protective underlay must be larger than the dimensions of the stove by at least 30 cm on both sides and by at least 50 cm at the front of the stove.

Pieces of furniture made of wood or plastics must be at a distance of at least 20 cm from both sides of the firebox. Installation elements made of combustible elements must be at a distance of at least 80 cm from the lateral side of the firebox opening.

The walls must also be fire-resistant along their entire height and at least 50 cm of their width on both sides, as well as in front of the firebox. Safe clearances to objects which need to be protected (e.g. combustible walls, walls containing combustible elements, kitchen furniture and reinforced concrete load-bearing walls) must be at least 20 cm or 40 cm at the side of the firebox.

Around the stove, sufficient clearance to combustible objects (objects covered with wood, furniture, curtains etc) needs to be provided.

If the stove's steel plate is to be used, additional elements may not be installed above the stove.

Minimum clearances from combustible materials must be provided when installing fixing elements. Wall clearance must be 20 cm and ceiling clearance must be 40 cm. Before connecting the stove to the chimney, you must consult your local chimneysweeper. Stoves are connected to the chimney by using appropriate flue duct connection elements in accordance with the standard JUS.M.R4.031 (DIN 1298 or DIN EN 1856-2). Make sure that the width of the flue duct connection is not smaller than the diameter of the stove's flue duct and that it is appropriately sealed. In general, you should conform to the standard DIN 18160.

In order to achieve the desired stove efficiency, it must be properly installed and the chimney must operate perfectly.

Before you start using your stove, test the existing pressure in the chimney.

Draft intensity in the chimney can be easily checked, by placing a candle near the chimney opening. The draft is satisfactory if the candlelight bends towards the chimney. If the candlelight slightly bends, this indicates low draft intensity.

For installation of two stoves on the same floor and for their connection to one chimney, their connecting points must be located at a distance of at least 50 cm.

## 2. DRAFT REGULATOR LEVER



Figure 2

Draft regulator is activated using the handle (Figure 2, Item 7) located above the oven door. Regulator is opened by pulling the handle out. The regulator is closed by pushing the handle in. This regulator reduces the flue gas flow when lighting the fire.

Draft regulator should be opened only when lighting the fuel, while the stove is cold.

If the draft regulator is open after lighting the fire, the stove may become overheated and its parts may become damaged as a result, and the oven baking quality may be affected.

In addition thereto, an open draft regulator results in higher consumption of the fuel.

### 3. Fuel Box

The fuel box is located at the bottom part of the stove (Figure 1, Item 6) and it can be easily moved using guides.

**Warning!** Flammable material such as paper and similar material may not be stored in this box. Be careful of the height to which the box is filled.

## 4. STARTING THE STOVE

**Before lighting the fire for the first time, all enameled surfaces should be wiped off with a soft cloth** to prevent staining.

After you have studied the operating instructions, you may start the stove. When lighting the fire for the first time, open the windows because when the fire starts burning, the corrosion prevention agent briefly develops unpleasant smoke and smell, which is normal. It stops after a short period of time.

You must take into account that some installed parts (flue duct, firebox door) become overheated and create a fire hazard. All areas of the stove may become very hot during its operation. It creates a fire hazard. Considering the fact that all serviceable parts of the stove become heated (door handles), use a special purpose wrench, which is delivered together with the stove.

Keep small children at sufficient distance from the stove.

When lighting the fire for the first time, first light a fire which is three times smaller, to avoid rupture of fire bricks.

### 4.1 STARTING AND OPERATING THE STOVE

- \* Pull out the draft regulator lever handle to light the stove,
- \* open the firebox door,
- \* place woodchips, sawdust or paper inside the box,
- \* on this pile, place 2-3 small pieces of wood,
- \* light the fire,
- \* close the firebox door,
- \* let the wood catch fire,
- \* after the fire has been successfully lighted and the stove is well heated, push the draft regulator handle in.

After a layer of hot fragments is formed, add the fuel.

When adding the fuel, slowly open the firebox door to keep the smoke moving in the right direction and prevent it from entering the room.

Nominal heating power is reached when the following quantities of fuel and by adjusting air flow in accordance with the information given in the following table.

Fuel	Quantity	Combustion time
Logs	1.5 kg	1.0 h
Brown coal briquettes	2.7 kg	2.0 h

Make sure that you never add a larger quantity of firewood than necessary. The quantity of fuel must not exceed the ones specified above, because it may cause the stove to become overheated.

It is recommended to use naturally dried firewood.

Burning varnished, coated, veneered and impregnated wood, as well as wood containing adhesive, is forbidden. In such events, the manufacturer's warranty shall be invalid. Burning waste is very harmful to the environment and it is prohibited by law. Firewood must be dry (max. remaining moisture 20%). This is achieved by storing the wood for two years in a well ventilated dry place. Damp wood has a lower heating power and causes formation of deposits in the chimney's flue ducts.

Under unfavorable air flow conditions, flue gases cannot be fully disposed off. In such events, the stove may not be used for safety reasons.

### 4.2. COOKING

#### 4.2.1 COOKING DURING SUMMER

During warm weather periods, the stove is used mainly for cooking.

Fully open the draft regulator. It is recommended to use thick-bottomed pans with appropriate lids.

#### 4.2.2 COOKING DURING WINTER

During cold weather periods, the stove is mainly used for both heating of rooms and for cooking. For faster cooking, use dry wood. Draft regulator must be closed and primary air control damper should be fully opened.

#### 4.3. BAKING AND FRYING

Equal distribution of heat is required for baking cakes and meat. To achieve equal distribution of heat and sufficient temperature, draft regulator must be closed. Depending on the baking method, the oven must be preheated. When the desired temperature of the oven is reached, you may place the food you want to bake inside the oven. Make sure that not too many hot fragments of fuel are accumulated. Constantly add smaller quantities of fuel.

Thicker cakes are baked at a moderate oven temperature. Thinner cakes are baked at fairly higher temperatures. For baking meat, the temperature needs to be higher than for baking cakes. Preparation (heating) takes longer and it is a necessary part of the process. Baking is done in a circular-shaped pan placed at the bottom of the oven.

During baking, regularly rotate the pan. The pan is not included with the stove.

#### 5. DISPOSAL OF ASH

Ash is disposed by using accessories provided and by removing the oven cleaning plate. Empty the ash pan before each use. Grills should be cleaned 1-2 times a week. When the air opening on the grill is clogged due to accumulation of ash or other burned material, the grill should be removed and carefully cleaned.

#### 5.1 CLEANING AND MAINTENANCE OF THE STOVE

Proper cleaning of the stove is essential for its proper and reliable operation. Cleaning of enameled areas of the stove is recommended only when the stove is cold. The stove is cleaned with clear water and soft cloth, and under special circumstances, with soapy water. Cleaning intervals mostly depend on the type of fuel and period and manner of use of the stove.

Unnecessary formation of dust during cleaning can be avoided by adhering to the following sequence:

- \* remove the cooktop and carefully clean it outdoors,
- \* remove the soot and deposits from the upper part of the oven and from the parts exposed to the flow of hot gases,
- \* put the cooktop back,
- \* remove the oven cleaning plate (Figure 3, Item 9),
- \* remove soot and ash from the upper part of the stove,
- \* push the oven cleaning plate back.



Figure 3

#### 5.2 MAINTENANCE AND CLEANING OF COOKTOP

Only sand paper or cleaning agent is used for cleaning the cooktop. After cleaning, wipe the cooktop with a wet cloth and then with a dry cloth. Make sure that flexible grooves are free, so as to enable cooktop expansion during heating. Burnt food and ash on the grooves may cause deformations to the cooktop. Never leave dishes on the cold cooktop. This causes corrosion on the edges, which is later difficult to remove.

#### INSTRUCTIONS

The stove, flue ducts and chimney must be regularly cleaned.

All of the mentioned parts should be regularly inspected by a qualified person.

#### 6. GENERAL RECOMMENDATIONS

If all installation and operation instructions are complied with, this stove will be a reliable kitchen appliance.

Any problems which may arise in connection to your stove can be handled by our customer service.

Contact our customer service in the event of any problems or malfunction.

Our customer service will also help you when ordering spare parts.

### **WARRANTY SERVICE PERIOD**

This is the period in which we guarantee service, accessories and spare parts from the date of purchase of the device. The warranty service period is in accordance with the current legislation. In case of change of model and design of the device, the deadline for replacement of the parts is within the statutory term. After this period, we provide the replacement parts in the new design.

### **WARRANTY SERVICE TERMS AND CONDITIONS**

Product warranty is valid in the specified statutory period.

The warranty does not extend to glass, ceramic and physical damage caused after the date of purchase.

#### **THE MANUFACTURER RESERVES ALL THE RIGHTS TO CHANGE THESE TERMS AND CONDITIONS.**

The device will work properly in the warranty period only when used in accordance with this manual for connection and use.

The warranty shall be terminated if it is determined that:

- if the connection of the product or repair was performed by an unauthorized person, or if there were installed unoriginal parts,
- if the device is not properly used in accordance with this manual,
- if there is a mechanical damage caused during the usage of this device,
- if the repair was performed by an unauthorized person,
- if the device is used for commercial purposes,
- if the damage occurred during transport, after the sale of the device,
- if the defect is due to irregular installation, improper maintenance or mechanical damage caused by the customer,
- if the defect is due to a too high or too low voltage or it is caused by force majeure .

We can remove the defects of the device and outside the warranty period with original spare parts for which we also guarantee the same terms.

This warranty does not exclude or affect the consumers' rights in terms of conformity of products in accordance with the statutory provisions. If the delivered product does not meet the contract, the consumer is entitled to require the seller to eliminate this disparity by repairing or replacing the product without compensation in accordance with the current legislation.