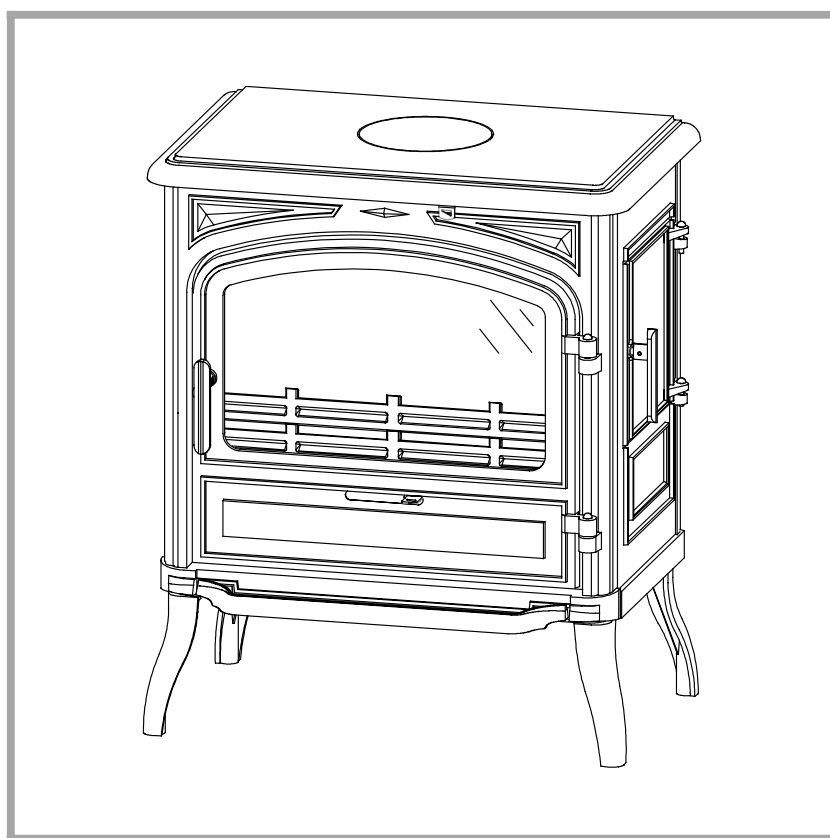

LIMOUSIN

Wood stove

C G B f D - N F D 35-376

Model : 134 10 12

Output : 10 kW



Description of the appliance

Installation instructions

Operating instructions

Spare parts

Warranty certificate

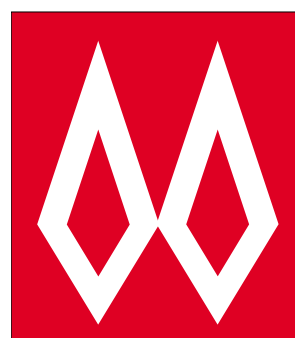
Document n° 1054-2 ~ 13/12/2000

Technical manual

to be saved

by the user

for future reference



FRANCO BELGE

Les Fonderies Franco-Belges

59660 MERVILLE

Phone : 03.28.43.43.43

Fax : 03.28.43.43.99

RC Hazebrouck 445750565B

Subject to modifications

FRANCO BELGE congratulates you on your choice.
 FRANCO BELGE, which has been granted the ISO 9001 certification, guarantees the
 quality of its appliances and is committed to meet its customers' needs.
 FRANCO BELGE, which can boast a 75-year experience in the industry of heating devices,
 uses state-of-the-art technologies
 to design and manufacture its whole range of products.
 This document contains instructions on how to install your appliance and and make full
 use of its functions, both for your comfort and safety.

CONTENTS	Page	Page	
Product information		3	
Package	3	Description	3
Optional	3	Principle of operation	3
General characteristics	3		
Installation instructions		4	
The room	4	Connection to flue	5
Flue	4	Mounting the tray	5
Assembly of flue spigot and blanking plates	4	Chimney maintenance and sweeping	5
Instructions for user		6	
Fuel	6	Cleaning	7
Instruction for use with wood	7	Maintenance of the stove body	7
Instructions for use with solid fuel	7	Trouble Shooting	8
Spare parts		10	

Warning to the user

A wood stove should only be installed by competent personnel, in the strict application of normal practices and all safety precautions.
An incorrectly installed wood stove can cause serious accidents (chimney fires, burning of plastic insulation materials, in partition walls, etc.).
The manufacturer's responsibility shall be limited to the supply of the equipment.

1. Product information

1.1. Package

1 package : Stove complete.

1.2. Optional

- Boiler
- Coal grate

1.3. General characteristics

Reference	134 10 12
Maximum output kW	10
. Btu/hr	34 000
Chimney draft required Pa	10
<i>Grate dimensions</i>	
- width mm	540
- depth mm	250
- usable height mm	200
<i>Log dimensions</i>	
- Length cm	50
- Diameter cm	10 à 16
Ash pan capacity litres	6,8
Net weight kg	160
Volume heated m ³	380
Autonomy h	10

1.4. Description

Stove, **C G B f D** - NF D 35-375

C : **Continuous**-burning heating appliance.

G : Wood burnt on **grate**

B : **Wood** burning stove

f : **Enclosed** combustion chamber with refractory brick walls.

D : Removable appliance, to be installed near a wall.

- Detachable flue spigot for rear or top chimney connection.
- Detachable top for easy handling and cleaning (rear smoke exit only).
- Adjustable air controls for controlling the burning rate.
- Spin wheel for lighting.
- Large ash-pan.
- Side loading door.

1.5. Principle of operation

The "Limousin" is designed for operation with the door closed.

Heat is mainly diffused by radiation, through the window and body of the appliance.

Combustion occurs on the grate, with draught entry through the top of the combustion chamber when using wood and under the grate when using coal.

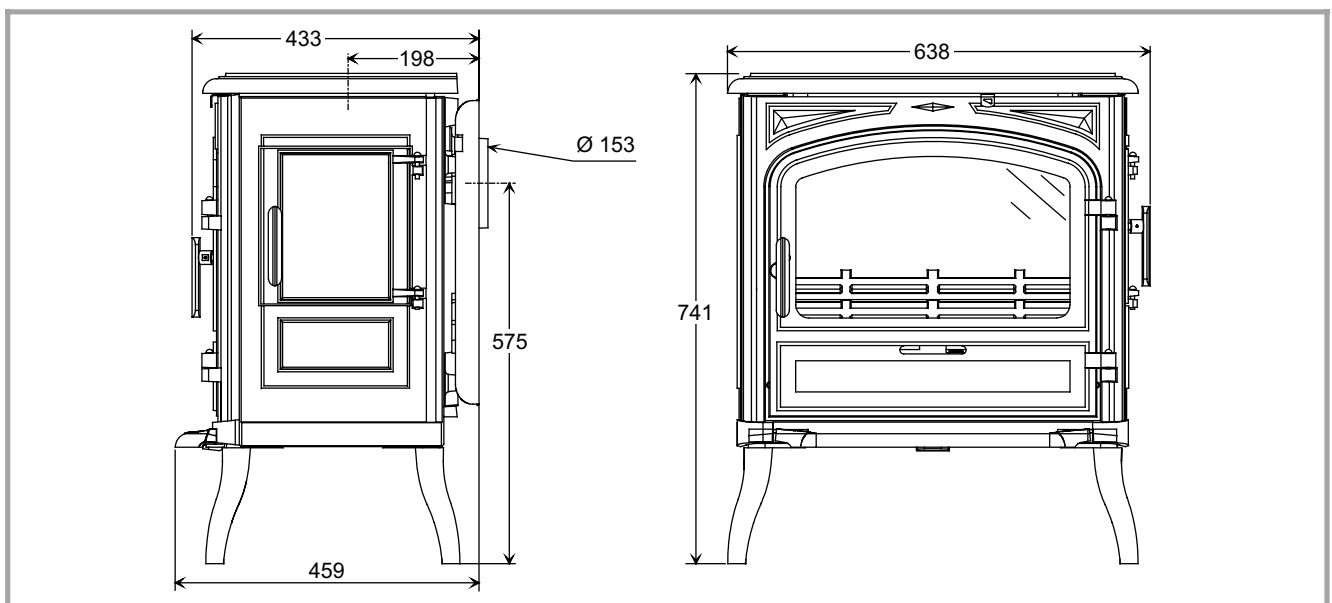


Figure 1 - Dimensions in mm

2. Installation instructions

2.1. The room

Ventilation :

For satisfactory operation with a natural draught, check that sufficient air for combustion is available in the room.

Chimney position :

For new chimney installations, select a central position within the building, to provide a good heat distribution around the building.

Hearth :

The hearth must be suitable for use with solid fuel burning appliances and must comply with Current Building Regulations. If in doubt, consult your Dealer or local Building Inspector.

Rear wall and ceiling :

The appliance must not be positioned close to combustible materials, wall & ceiling surfaces etc., Consult your Dealer or local Building Inspector if in doubt.

2.2. Flue

Existing flue :

- The flue must be in good condition and must provide sufficient draught.
- The flue must be suitable for the installation of solid fuel burning appliances and comply with Current Building Regulations.
- The flue must be clean. It should be swept to remove soot and dislodge tar deposits.
- The flue must be well insulated. If the flue inner wall surfaces are cold, a good thermal draw is impossible causing condensation problems (tar formation etc) to occur.

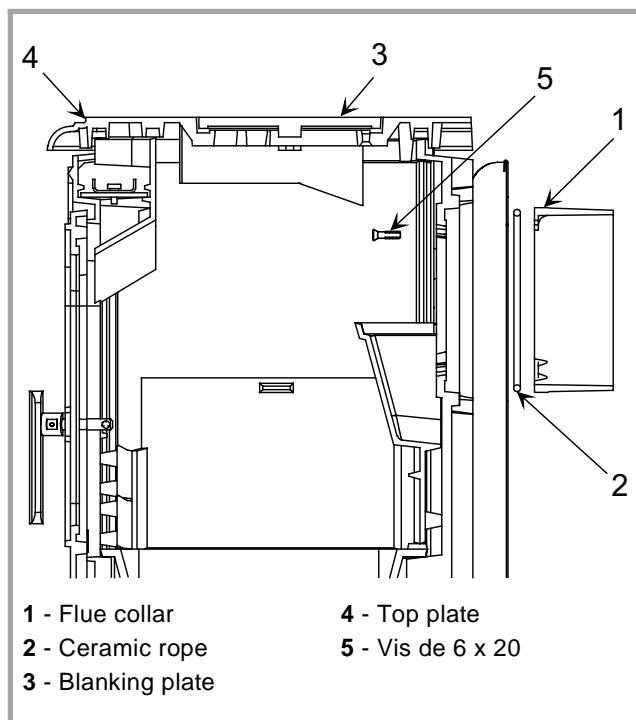


Figure 2 - Rear flue outlet

- The flue must not be shared with other appliances.
- The recommended minimum flue height is 5 metres.
- If the chimney has any down draught tendency, due to its position in relation to nearby obstacles, then an anti-down draught cowl must be installed on the chimney or the chimney height must be increased.
- If the decompression in the chimney is excessive, a draught stabiliser must be installed.
- The flue must not be supported by the stove.
- Consult a chimney specialist for advice on suitable flue systems for solid fuel appliances.

2.3. Assembly of flue spigot and blanking plates

The stove is supplied with a connection flue spigot with an inner diameter of 153 mm.

2.3.1. Smoke exit at rear

Figure 2

- Remove the top plate 4.
- Remove the flue baffle (# 37, fig. 7, p. 11).
- Fit the sealing rope 2 in the groove at rear and fix the flue collar 1 with 3 bolts and washers supplied.
- Replace the flue baffle (# 37, fig. 7, p. 11).
- Replace the top plate.
- Remove the cut-out in the rear heat shield and re fit (fig. 3)

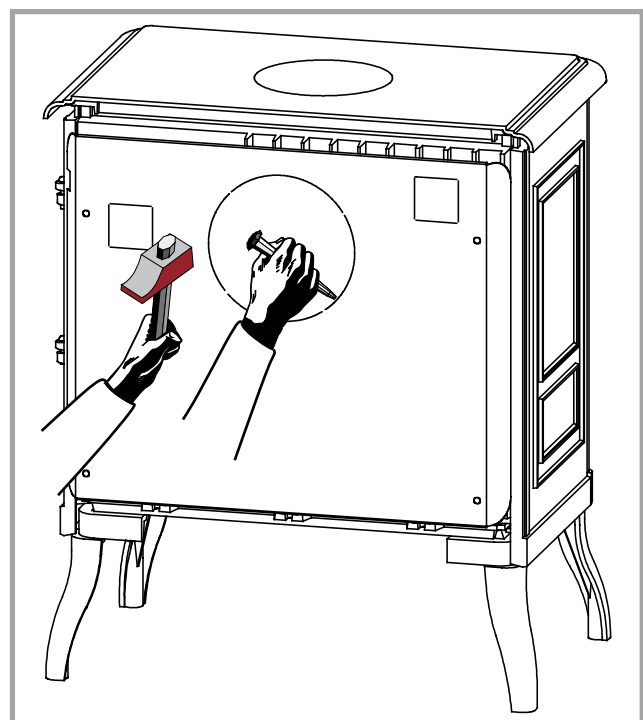


Figure 3 - Rear heat shield

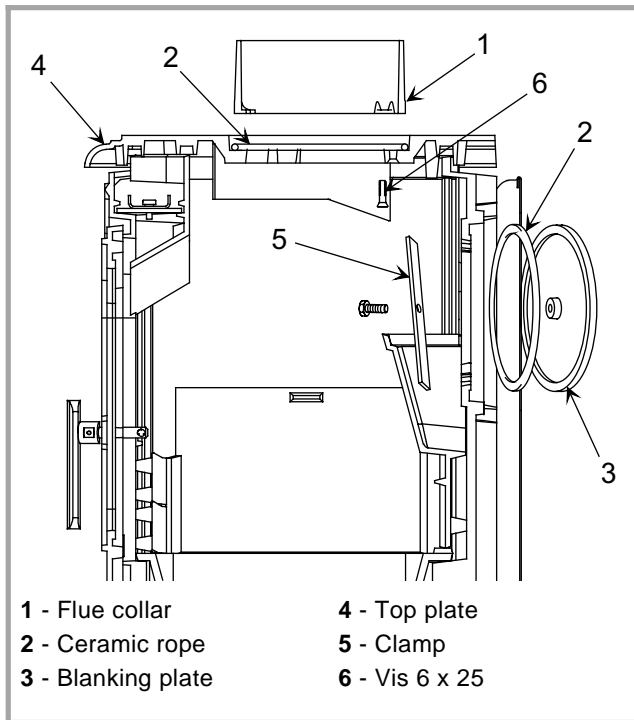


Figure 4 - Smoke exit from top

2.3.2. Smoke exit on the top

Figure 4

- Remove the top plate 4.
- Remove the flue baffle (# 37, fig. 7, p. 11).
- Remove the blanking plate 3 and the clamp 5 and refit them at the rear, ensuring there is a good seal.
- Fix the flue collar 1 on the top with 3 bolts and washers supplied, ensuring there is a good seal.
- Replace the flue baffle (# 37, fig. 7, p. 11).
- Replace the top plate.

In this case, the cut-out of the heat shield must not be removed.

2.4. Connection to flue

- The stove must be installed as close as possible to the chimney.
- The stove should be connected to the flue by a smoke pipe, approved for installation with combustion

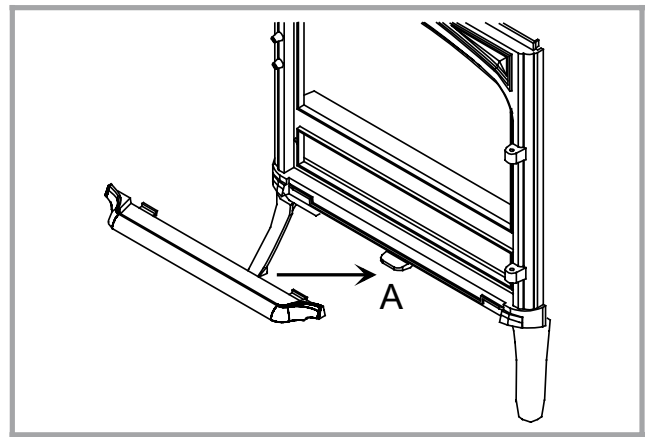


Figure 5 - Mounting the tray

- products (e.g. stainless steel 1 mm thick, 20g, or vitreous enamel.).
- Pipe diameter must not be less than the appliance spigot diameter.
- The connection can be either vertical or horizontal. For horizontal connections, avoid right angle bends.
- The joint between the connection pipe and the stovepipe, and the flue, must be leak tight.
- The connection pipe and any draught stabiliser must have access for cleaning.

2.5. Mounting the tray

To avoid damage during transport, the tray has been stored behind the main door.

- Fix the tray, on the appliance (ill. 5). Center on tab "A" and lower into place.

2.6. Chimney maintenance and sweeping

Very important : To avoid accidents (chimney fire, etc.), regular maintenance should be carried out. If the stove is regularly used, the chimney should be swept several times per year, together with the stovepipe connection section.

First remove the two retainer grates (# 30, fig. 7, p. 11), the three side bricks (# 15, 27 & 28, fig. 7, p. 11) and the flue baffle (# 37, fig. 7, p. 11)

Chimney condition should be checked at least once per year.

3. Instructions for user

3.1. Fuel

• **Recommended fuel : Wood** with the grate provided (code 309231)

- Use hard wood logs, which have been cut for at least two years and stored, under shelter.
- Hardwood has a higher calorific value per cu metre (oak, ash, maple, birch, elm, beech, etc.).
- Large logs must be split and cut to a usable length, before being stored in a sheltered and ventilated place.

• **Recommended fuel with the coal grate (code 308712)**

Smokeless fuels, including coolite nuts, phurnacite, ancit and extracite.

• **Not recommended as fuel :**

- "Green wood". Green or damp wood reduces stove efficiency and soils the glass, the internal walls and the flue (soot, tar, etc.).
- "used timbers". Burning treated wood (railway sleepers, telegraph poles, offcuts of plywood or chip board, pallets, etc.) quickly clogs the flue ways (soot, tar, etc.), pollutes the environment (pollution and smell, etc.) and cause the fire to burn too quickly and overheat.

"Green wood" and "recovered wood" can eventually cause a chimney fire.

- **Prohibited fuel :** Homefire and any form of bituminous coal or petroleum based coke.

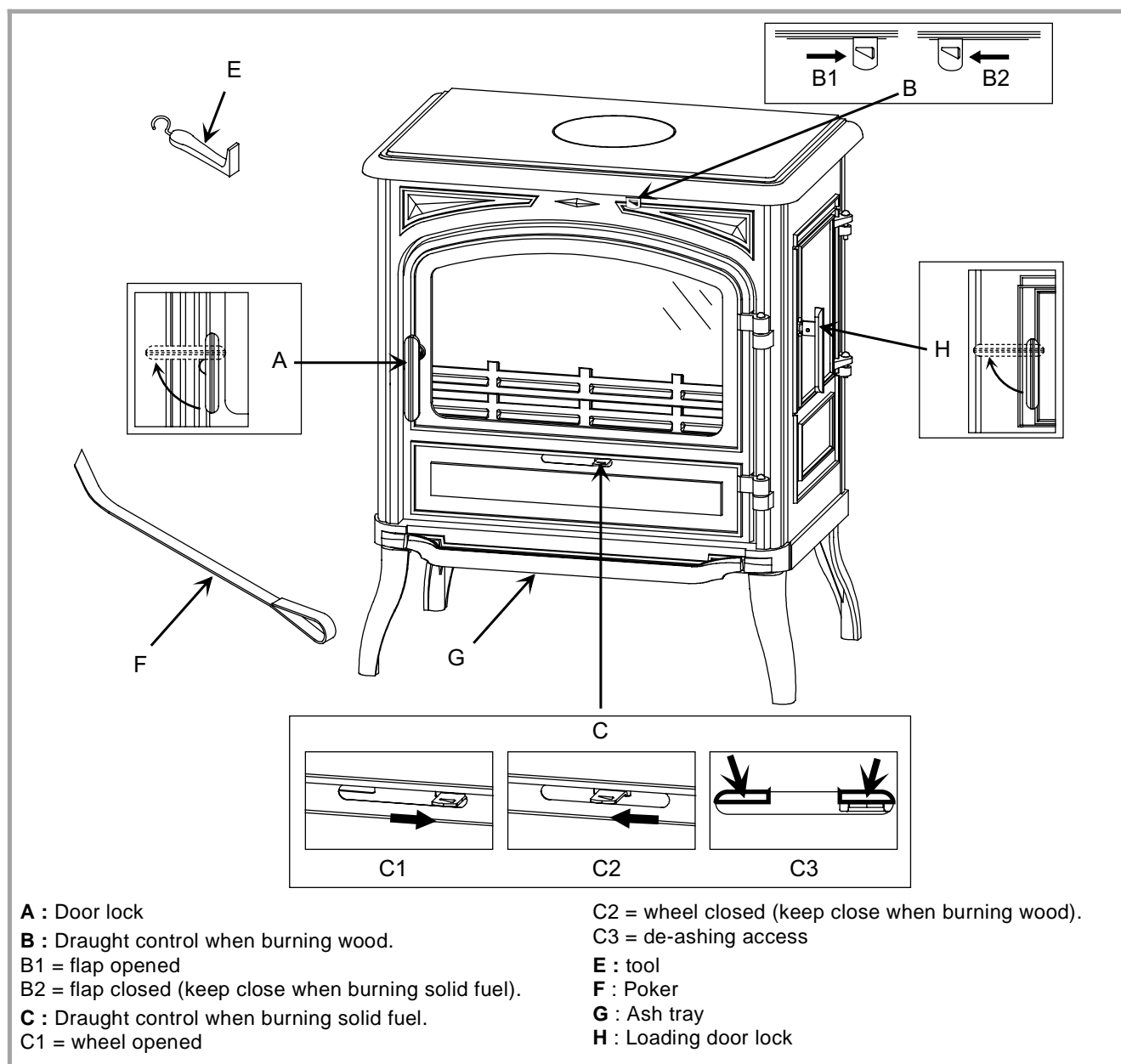


Figure 6 - Operating devices

3.2. Instruction for use with wood

3.2.1. lighting

Figure 6

- Slide the top air control (# B1) and the lower air control (# C1) to the right. Open the lower spin wheel (# C1).
- Open the front door and lay firelighters or rolled up newspapers on the grate with a reasonable quantity, if necessary, of dry kindling wood. Place 2 or 3 small logs on top.
- Light the newspaper or firelighters using a long taper and close the door (# A).
- When the fire is burning fiercely, add further logs of a diameter up to 10 cms.
- When the stove body is very hot, close the lower air control (# C2).
 - The burning rate can now be adjusted by moving the top air control to the left (# B1). Experience will show you which settings are best for your situation.

Note : When the fire is lit for the first time, the stove may give off fumes from the new paint. This is normal but ensure the room is well ventilated during the first few hours of operation.

3.2.2. Re-fuelling

It is advisable to wait for the fire to be reduced to hot embers before re-loading. The door should also be opened slowly when re-loading.

3.3. Instructions for use with solid fuel

3.3.1. Lighting

- Close the top air control by sliding it to the left (# B2).
- Open the lower air control by sliding it to the right (# C1).
- Lay firelighters or rolled up newspapers on the grate with a reasonable quantity, if necessary, of dry kindling wood. Place a small quantity of solid fuel on top.
- Light the newspaper or firelighters using a long taper and close the door.
- When the fire is burning fiercely, add further fuel.
- When the stove body is hot, adjust the burning rate with the lower air control (# C).

3.3.2. Re-fuelling

- Open the lower air control (# C1).
- Open the front door and add fuel.
- Leave the lower air control open for a few minutes to allow the initial volatiles in the fuel to burn.
- Adjust the lower air control to the desired position (# C).

3.4. Cleaning

It is essential to keep the grate free from a heavy build up of ashes.

REMEMBER TO BURN SOLID FUEL CORRECTLY, AIR SHOULD BE ALLOWED TO FLOW FROM THE ASH PIT AREA THROUGH THE GRATE AND THROUGH THE FUEL. IF THE GRATE OR ASH PAN ARE CONGESTED, THE PERFORMANCE WILL BE EFFECTED.

If burning solid fuel, always empty the ash pan at least once a day or whenever it is full of ashes. Never allow the ashpan to overfill allowing ash to be in contact with the underside of the grate. If this condition is allowed, the grate will wear out pre-maturely.

3.5. Maintenance of the stove body

- The stove must be regularly cleaned.
 - Remove all deposits from the combustion chamber and clean the grate area.
 - The vitro ceramic glass can only be cleaned using a soft cloth and stove glass cleaner, available from your Franco Belge Dealer. **DO NOT USE ABRASIVES**
 - The vitro ceramic glass resists a temperature of 750°C. If the glass should be broken, it is recommended that only an original factory replacement should be fitted.
- For enamelled finishes, the stove body can be cleaned using a soft cloth either dry, or slightly damp with a very mild detergent.

NEVER CLEAN ENAMEL SURFACES WHILST THE STOVE IS HOT.

The cast iron body panels of non-enamelled stoves can be cleaned with a proprietary stove cleaner or re-sprayed / touched up using a stove paint. These products are available from your Franco Belge Dealer.

3.6. Trouble Shooting



: This sign means that you should asked for a qualified engineer to do the work.

<i>Problem</i>	Probable causes	- Action
<i>Fire difficult to start Fire goes out</i>	Wood green, too damp or poor quality.	- Use the recommended fuel.
	Logs are too big.	- To light the fire, use small, very dry twigs. To maintain the fire, use split logs.
	Air starvation.	- Open lower air control and top air control lever.
	Insufficient draught. <input checked="" type="checkbox"/>	- Check that the flue is not obstructed, sweep it if necessary - Seek advice from a chimney specialist.
<i>Fire burns too quickly.</i>	Too much draught.	- Ensure that the lower air control is closed - Partially close the top air control lever.
	Excessive draw. <input checked="" type="checkbox"/>	- Install a draught stabiliser. Consult your Dealer.
	Poor quality wood.	- Do not continuously burn small wood, sticks, bundles, carpentry offcuts (plywood, pallets), etc.
<i>Smokes when lighting up.</i>	Flue duct is cold.	- Burn paper and kindling wood to increase heat.
	Room is in decompression.	- In houses equipped with mechanical ventilation, partly open a window until the fire is well established.
<i>Smokes while burning.</i>	Draught is insufficient. <input checked="" type="checkbox"/>	- Consult a chimney specialist. - Check that the flue is not obstructed, sweep if necessary.
	Down draught. <input checked="" type="checkbox"/>	- Install an anti-down draught cowl. Consult your Dealer.
	Room is in decompression. <input checked="" type="checkbox"/>	- In houses equipped with Mechanical Ventilation, an outside air intake must be installed for the chimney.
<i>Low heat output.</i>	Incorrect Fuels.	- Use the recommended fuel.

Notes

A series of 30 horizontal lines for taking notes.

4. Spare parts

When ordering spare parts, specify **the stove type** and **serial number**, including the colour index (on the guarantee or identification plate), the name of the part

and the part number.

Example : Wood stove, réf. 134 10 12 Y, top plate 352124 EF.

N°	Code	Description	Type	Qty
1	100939	Axle		04
2	101048	Axle		02
3	110404	Hinge pin	6x30	02
4	110405	Hinge pin	6x35	02
5	134107	Glove		01
6	134711	Pin	6x30	02
7	134749	Pin	4x20	02
8	142301	Adhesive rope		1,32 m
9	162721	Descriptive plate	9	01
10	181607	Ceramic rope	Ø 9,5	1,00 m
11	181614	Ceramic rope	d. 9,5	3,40 m
12	181615	Ceramic rope	d. 12	1,77 m
13	188780	Ceramic glass	439x272x4	01
14	205391	Back panel	14	01
15	209915	Protector		01
16	222609	Suppl. flue baffle		01
17	237413	60 Reducing plate		01
18	259015	Fixing plate		04
19	270409	Air control flap		01
20	270410	60 Air control flap		01
21	300122	EF Leg		04
22	300462	EF Base		01
23	300991	EF Handle		02
24	303515	EF Loading door		01
25	303718	EF Blanking plate		01
26	303826	EF Flue collar	Ø 153 int.	01
27	305015	Wall		01
28	305150	Back wall		01
29	306278	EF Back wall		01
30	307422	Fuel retainer		02
31	308712	Coal grate		01
32	309897	EF Front plate		01
33	310729	EF R. side panel		01
34	310826	EF L. side panel		01
35	314607	Inner door		01
36	315602	Air duct		01
37	323211	Flue baffle		01
38	325304	EF Reducing plate		03
39	327901	EF Tray		01
40	331108	EF Main door		01
41	352124	EF Top plate		01
42	406816	EF Clamp		01
43	415504	60 Poker		01
44	624043	Ash-pan		01
45	808001	ED Hand tool		01
46	262608	Heat shield		01

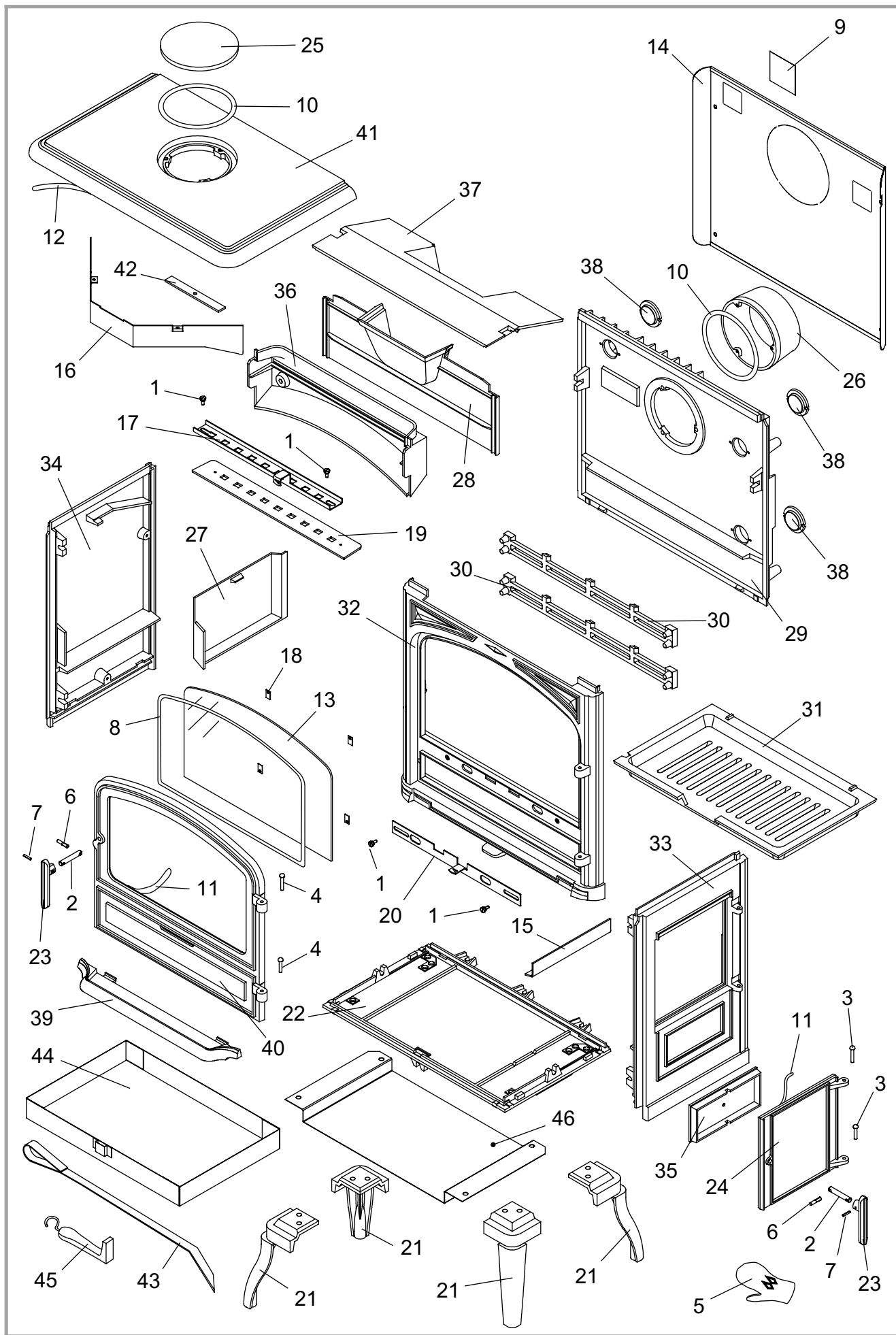


Figure 7 - Stove - exploded view



Warranty certificate

Legal warranty

Our products are guaranteed for twelve months against any defect, flaw or imperfection. During this time, all parts judged defective by our Warranty control department may be replaced in our workshops. Incidental costs of transportation and packing payable by the buyer.

Some parts or components have a longer warranty period :

- Cast-iron shell of boiler : 3 years
- Steel shell of boiler : 3 years
- Removable or independent stainless steel hot water cylinder : 5 years
- Independent enamelled steel hot water cylinder : 3 years
- Incorporated circulating pump : 2 years.

Terms of the warranty

This warranty is only valid if :

- The unit has been installed and checked by a professional installer before operating,
- All installation and adjustment instructions listed in the

technical manual supplied with the unit have been followed,
- All operation and maintenance instructions have been followed.

This warranty does not cover :

- Lamps, fuses, spark plugs, cast iron parts directly in contact with burning coal and wood, firebricks, flue baffles, glasses .
- Any damage resulting from the use of fuel not recommended in our instructions ;
- Parts which are damaged by external causes such as unadapted chimneys, thunderstorms, damp, faulty pressure or fail in pressure, thermic anomalies, explosions, etc...
- Electrical parts which are deteriorated by any connection or use on a supply circuit with voltage within 10% of the indicated voltage (230 V in EU).

Material subject to modifications without prior notice. This manual does not engage the responsibility of FRANCO BELGE.

☒ Name and address of the installer : _____

☎ Telephone : _____

☒ Name and address of the customer : _____

Date of installation : ____ / ____ / _____

Model of the appliance : : 134 10 12

Color : : Y

Serial number : _____

- This certificate has to be completed and kept carefully.

In case of claims, send a copy of this to :

Les Fonderies Franco-Belges, rue Orphée Variscotte, 59660 MERVILLE, FRANCE.