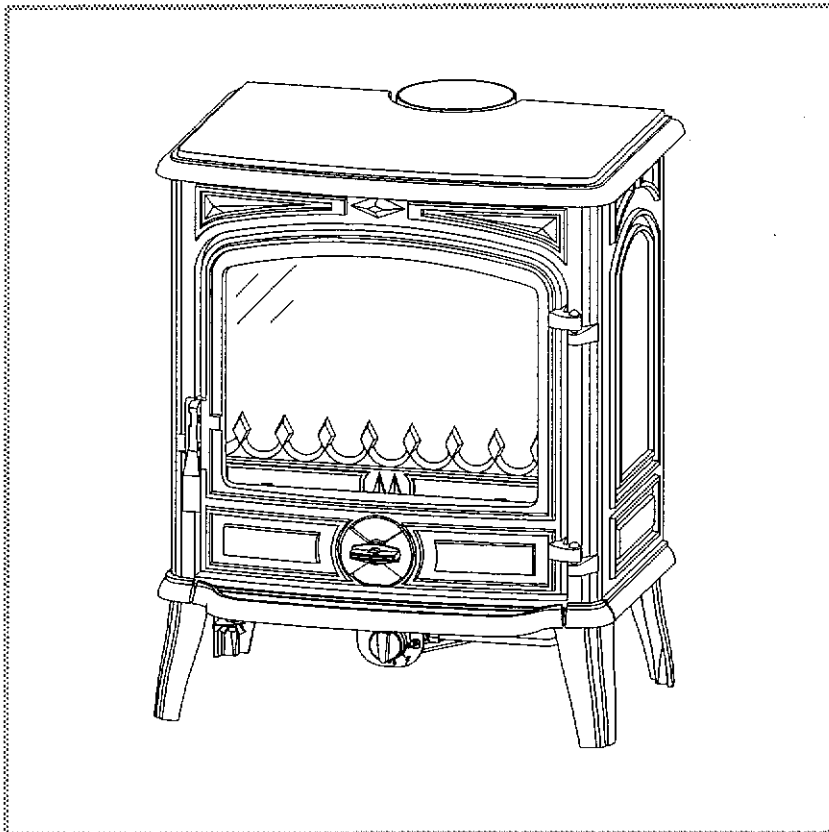


Savoy

Gas stove,
EN 613.

Model : 154 07 04

Natural gas (type G 20 - G 25)
Category I2H



Description of the appliance

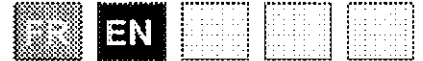
Installation instructions

Operating instructions

Spare parts

Warranty certificate

Document n° 1089-1 - 02/05/2002

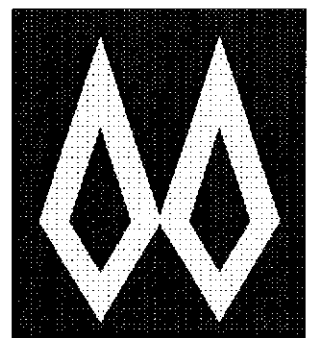


Technical manual

to be saved

by the user

for future reference



FRANCO BELGE

Les Fonderies Franco-Belges

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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 make full use of its functions, both for your comfort and safety.

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This appliance is a gas stove.

WARNING

An incorrectly installed gas stove can cause serious accidents.
The appliance should only be installed by a professional engineer, in the strict application of normal practices and all safety precautions.

1. Description of the unit

1.1. Package

1 package : Stove

1.2. Specifications

Model	154 07 04
Efficiency classification	1
Category	I _{2H}
Gross calorific value (heat input) . kW	6,9
Nominal Heat Output kW	5,25
Inlet gas pressure	
Natural gas H (G20) mbar	20
Natural gas L (G25) mbar	25
Burner pressure at maximum speed	
Natural gas H (G20) mbar	6,8
Natural gas L (G25) mbar	8,3
Gas rate	
Natural gas H (G20) m ³ /h	0,653
Natural gas L (G25) m ³ /h	0,727
Weight kg	82,5

1.3. Description

Gas stove - EN 613.

- Radiant type appliance, cast iron
- Detachable flue spigot for rear or top chimney connection.
- Elements in ceramic fibres reproducing coal aspect.

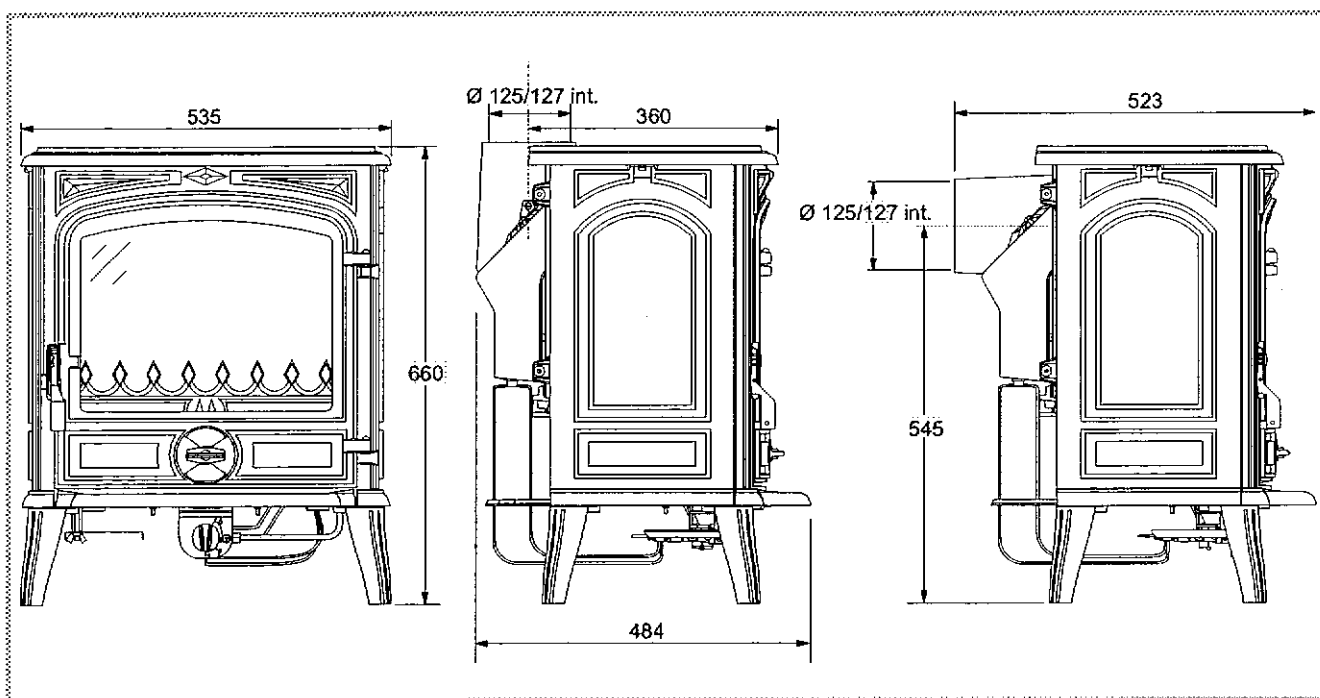


Figure 1 - Dimensions in mm

1.4. Operating principle

The stove is designed to run only off natural gas.

The appliance is designed for operating only with the door closed.

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

The appliance is fitted with a 'Flame Supervision Device' (FSD). If the burner should become accidentally extinguished, the FSD will automatically cut off the gas supply.

The appliance is fitted with a thermostatic switch (TTB) which senses any excess temperature due to a flue blockage.

The TTB cuts the thermocouple circuits and blocks the gas valve safety device when detecting an important flue blockage.

The system is not adjustable, and should not be rendered inoperative.

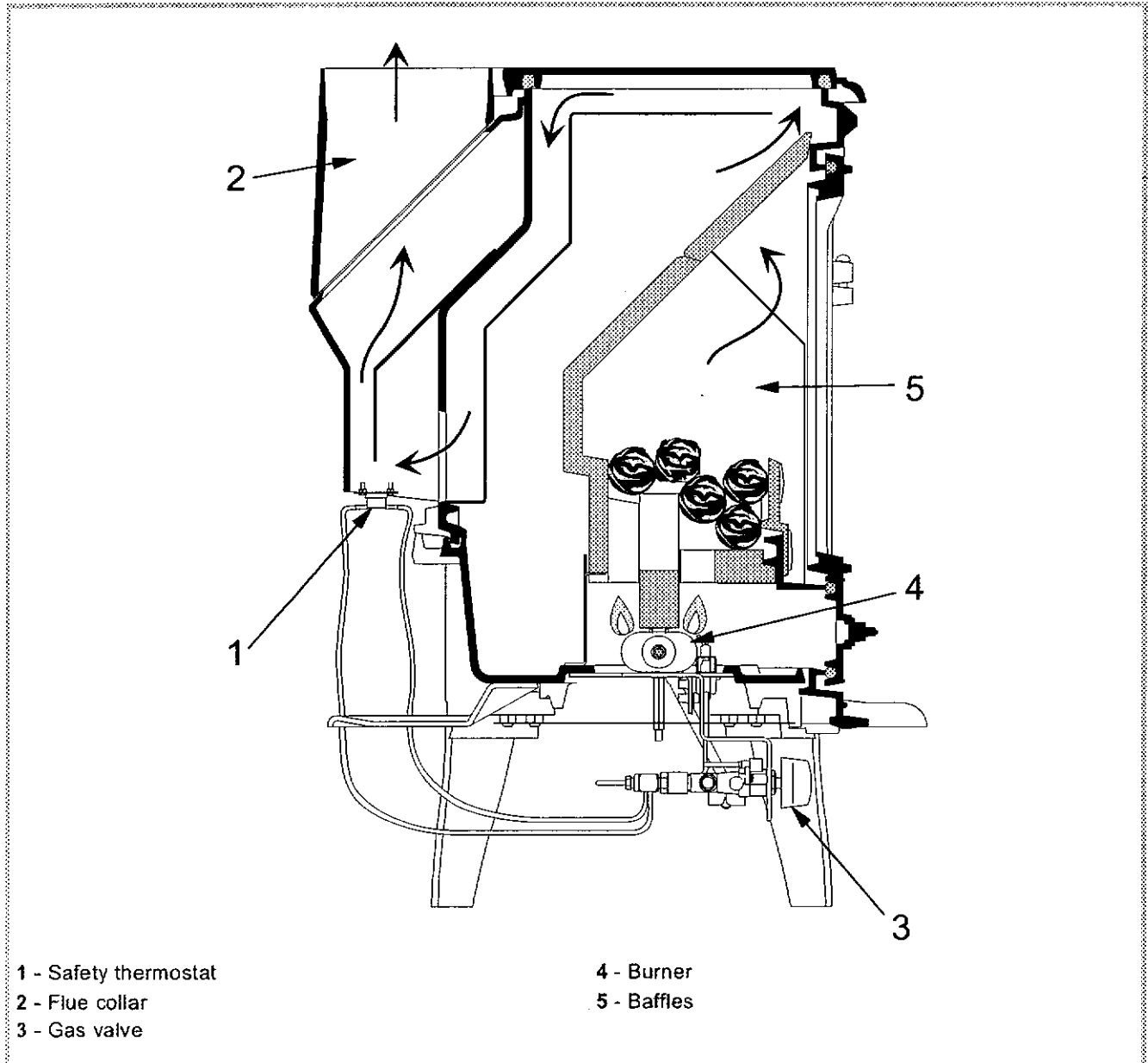


Figure 2 - Cross-section of the appliance

2. Installation instructions

2.1. Warning to the user

An incorrectly installed heating appliance can cause serious accidents (chimney fires, burning of plastic insulation materials, in partition walls, etc.).

The insulation of both the appliance and the exhaust gas pipe has to be reinforced and built as well as possible according to Standards and Building regulations to make sure of the equipment operational reliability.

The installation must comply with Current Building Regulations. If in doubt, consult your Dealer or local Building Inspector.

Failure to respect the mounting instructions leads to engage the responsibility of the one doing the installation.

The manufacturer's responsibility shall be limited to the supply of the equipment.

2.2. Location of the unit

The premises should be in accordance with the Building Regulations

Ventilation :

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

In houses equipped with mechanical ventilation, an outside air intake of minimum 50 cm^2 must be installed.

The ventilation rate should be of at least $(P \times 2) \text{ m}^3/\text{h}$

Position of the unit :

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

The appliance must be located in a way to provide enough space on the top and the rear to guarantee a correct operation for the draught diverter.

Floor and walls :

Make sure there are not combustible or covered with combustible material (as per the Building regulations). Otherwise it must be necessary to install a non-combustible protection.

Position the unit to comply with the minimum clearances to combustible material.

Clearance requirements :

If the appliance has to be located in an opening, there must be a clearance of at least 50 mm from any non-combustible materials as shown in (fig. 3). Which must be extended as per (fig. 4) from any combustible materials.

A combustible shelf may be fitted over the appliance, provided that in the case of a 150 mm or less deep shelf, there is at least 250 mm clearance above the top of the stove.

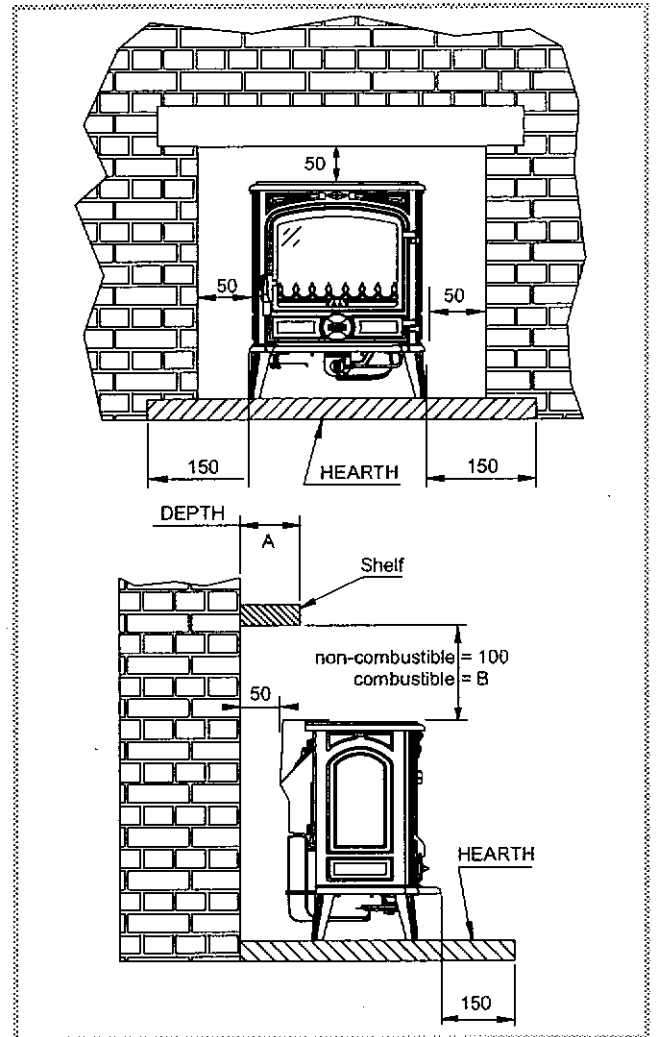


Figure 3 - Minimum clearances to non-combustible materials, hearth and shelf (in mm)

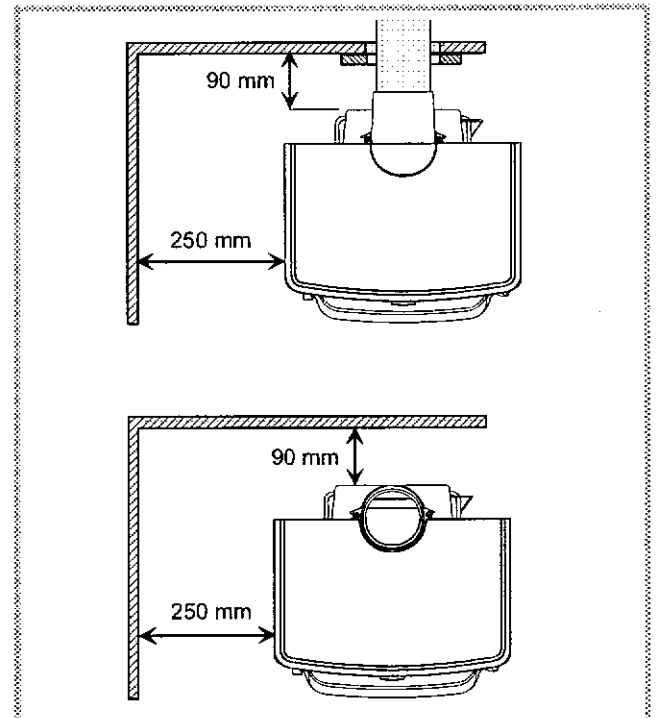


Figure 4 - Minimum clearances to combustible materials (in mm)

The shelf depth may increase at the same rate as the increase in clearance ; i.e. a shelf depth of 200 mm would require a clearance of 300 mm (fig. 3).

A	B
100	250
150	250
200	300
250	350
300	400

Hearth :

The stove must stand on a fire proof hearth. To comply with the Building Regulations issued by the Department of the Environment, the following points should be noted when choosing a hearth :

The hearth must be made of non combustible material of thickness 12 mm minimum.

The hearth must protrude at least 150 mm in front of the stove and 150 mm each side.

The hearth must not be capable of inadvertent covering by a carpet or rug. This should be achieved by either :

- the hearth being 50 mm above the level of the room floor.
- a fender or kerb around the edge of the hearth to a height of at least 50 mm above the floor.

2.3. Chimney

The chimney must comply with Current Building Regulations. If in doubt, consult your Dealer or local Building Inspector.

Existing flue :

The flue must be suitable for the installation of fuel burning appliances ; otherwise it must be necessary to install a tubing.

The flue must be in good condition and must provide sufficient draught. (refer to technical details page 3).

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 draught is impossible causing condensation problems (tar formation etc) to occur.

The flue must be watertight.

The chimney must have a constant cross section.

When the cross-section of the chimney cross-section is too large, it has difficulties in obtaining a good draught.

The flue must not be shared with any other appliance.

The chimney must be at least 4.5 m (15 ft) high and be at 40 cm above the ridge of the roof and 8 meters away from any construction.

In case of a flat roof or when the roof gradient is lower than 15°, the stack must be 1,2 m (4 feet) high at least.

The capping must not restrain the draught.

If the chimney has any down-draught tendency, due to its position in relation to nearby obstacles, an anti-down-draught cowl must be installed on the chimney or the chimney height must be increased.

Flue non-existent :

The appliance must not support the weight of the flue.

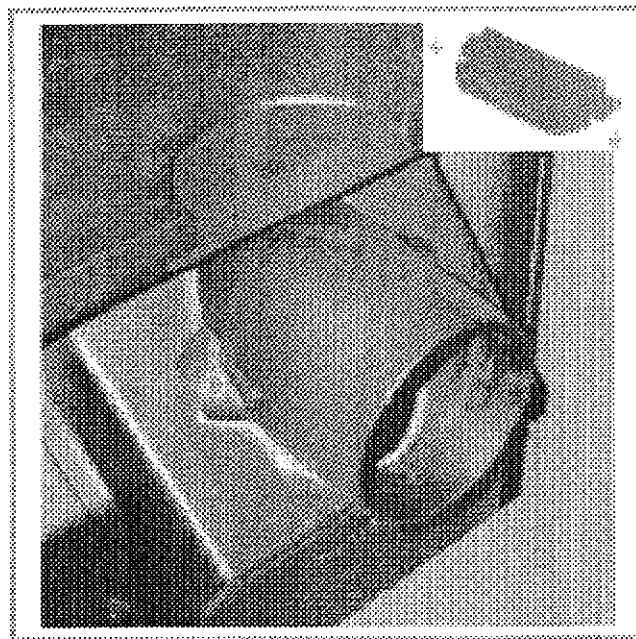


Figure 5 - Smoke exit at rear

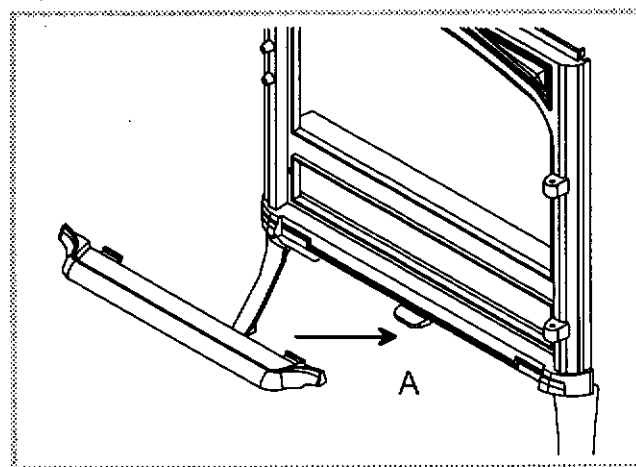


Figure 6 - Mounting the tray

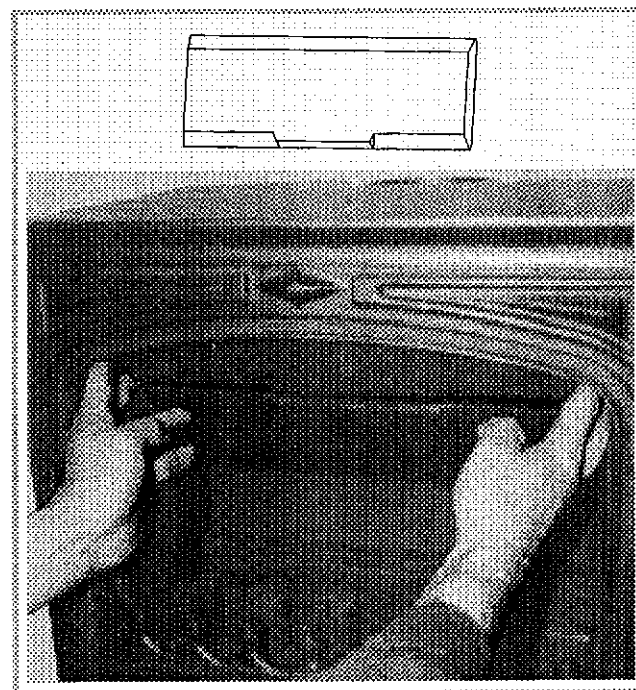


Figure 7 - Positioning of the refractory elements



Figure 8 - Coals layout

Consult a chimney specialist for advice on suitable flue systems for solid fuel appliances.

It must be distant from any combustible material (walls, cross members)

It must permit an easy sweeping.

2.4. Smoke exit

The flue collar is reversible so that the smoke exit can be done at rear (fig. 5) or on the top.

2.5. Chimney connector

The connection to flue must be carried out according to local building regulations.

- The appliance must be installed as close as possible to the chimney.
- The connector pipe must be approved for installation with combustion products (either 24 ga. Black painted or blued steel or 316 grade 20 ga. Stainless steel or 1 mm vitreous enamelled steel).
- Pipe diameter must not be less than the appliance spigot diameter.
- Otherwise the reducing must be 1 diameter lower than the flue spigot and be situated as distant as possible from the flue connection of the appliance.
- 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 has to be done from inside the appliance spigot.
- The connection pipe must have access for cleaning.

2.6. Mounting the tray

- Centre the tray on tab "A" and lower into place (fig. 6).

2.7. Positioning of the refractory elements

- Put into position the top element (fig. 7).

2.8. Coals layout

- Put into position the 8 first coals. Leave a space between the two coals from the right side to allow a flame sight.

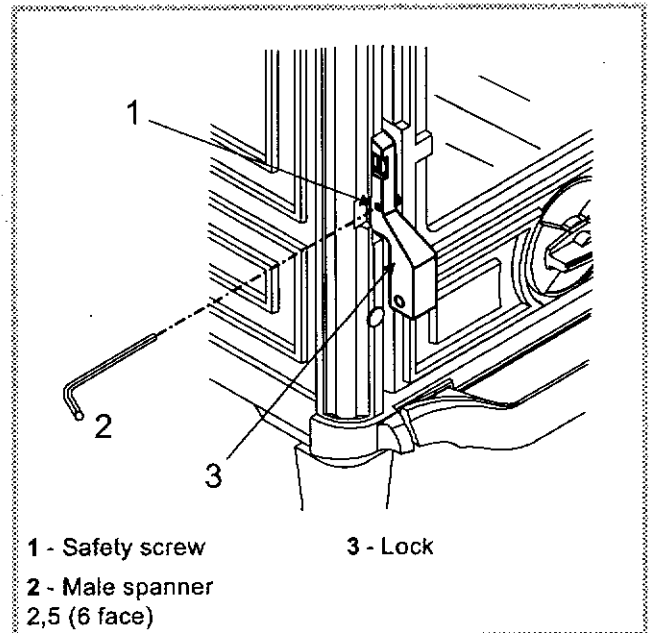


Figure 9 - Blockage of the door

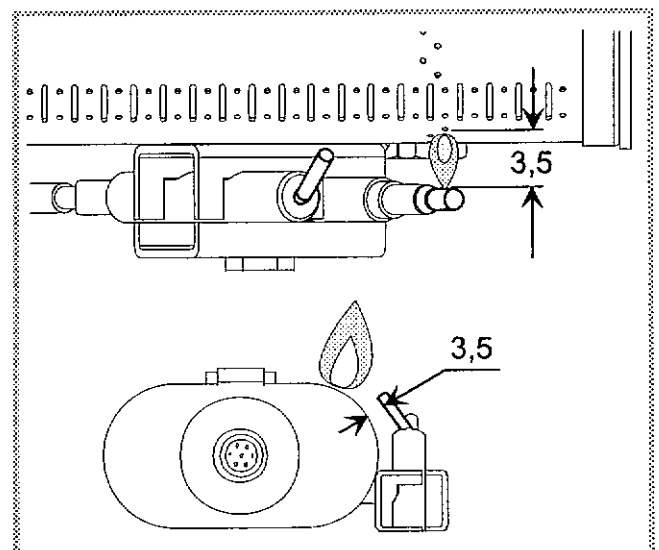


Figure 10 - Positioning of the electrode and the thermocouple

- Distribute the other coals across the hearth to obtain a natural and compact aspect.

2.9. Connecting the gas supply

The appliance connection onto the gas supply line has to be done as per the Building regulations.

- The 8 mm diameter semi rigid gas inlet pipe should be connected to the inlet of the gas valve using the nut and 8 mm olive supplied.
- The gas supply to the fire should be terminated near the fireplace with a safety type service tap.

2.10. Pre-utilisation check

Gas line :

- Check that all connections are tight.
- Open the gas, vent and check the gasline for leaks.
- Check gas pressure

Type of gas	Inlet gas pressure (mbar)	Supply pressure (mbar)
Natural gas (G20)	20	6,8
Natural gas (G25)	25	8,3

The gas pressure to the stove must be measured at the burner test nipple.

Various :

- Check that the glass is not damaged.
- Check that the smoke passages are not obstructed by packaging or removable parts.

- Check that the seals of the smoke-line are in good condition.
- Check that the door is blocked in closed position (fig. 9).
- Check that all removable parts are correctly installed. (Flue baffle, grate, etc.)

2.11. Maintenance

The maintenance has to be done on a periodic basis to allow a safe operation condition.

2.11.1. Cleaning of the hearth

Prior to any work starting ; make sure that the gas are turned off and the appliance is cold.

- Open the door by releasing the door latch (fig. 9).
- Remove the coals and baffles (fig. 8 and fig. 11).
- Should however any coals become broken during the cleaning process it is essential that replacements are purchased, as there is an optimum number of coals for a satisfactory functioning of the stove and the flame picture.
- Clean any deposition of lint off the burner. This can be done with a vacuum cleaner.
- Clean the inside of the glass and check that it is not broken or damaged.
- Put back correctly into position all the components (fig. 12).
- Close the door and block the latch with the cam pin (fig. 9). The door has to be blocked into position before using the appliance.

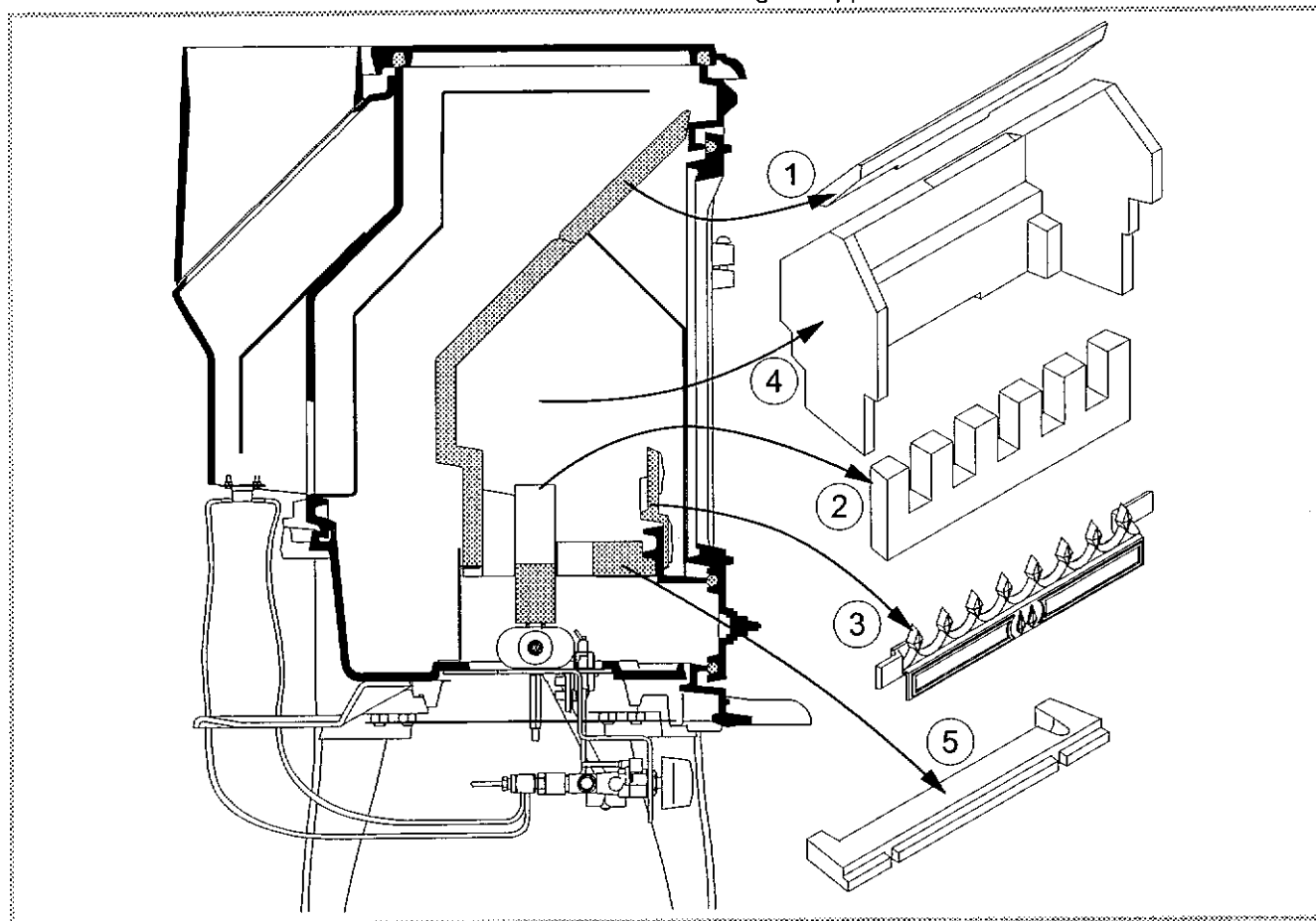


Figure 11 - Removal of the refractory elements

2.11.2. Put back into position the refractory elements

- Put into position the front element (rep. 3, fig. 11).
- Put temporarily the main element in the back on the hearth (1).
- Put back into position the retainer grate.
- Put the main element onto its support (4). Check that the main element sits close to the support stops.

- Put the central element onto the burner (5).
- Put into position the top element (6).
- Put into position the coals (see page 7).

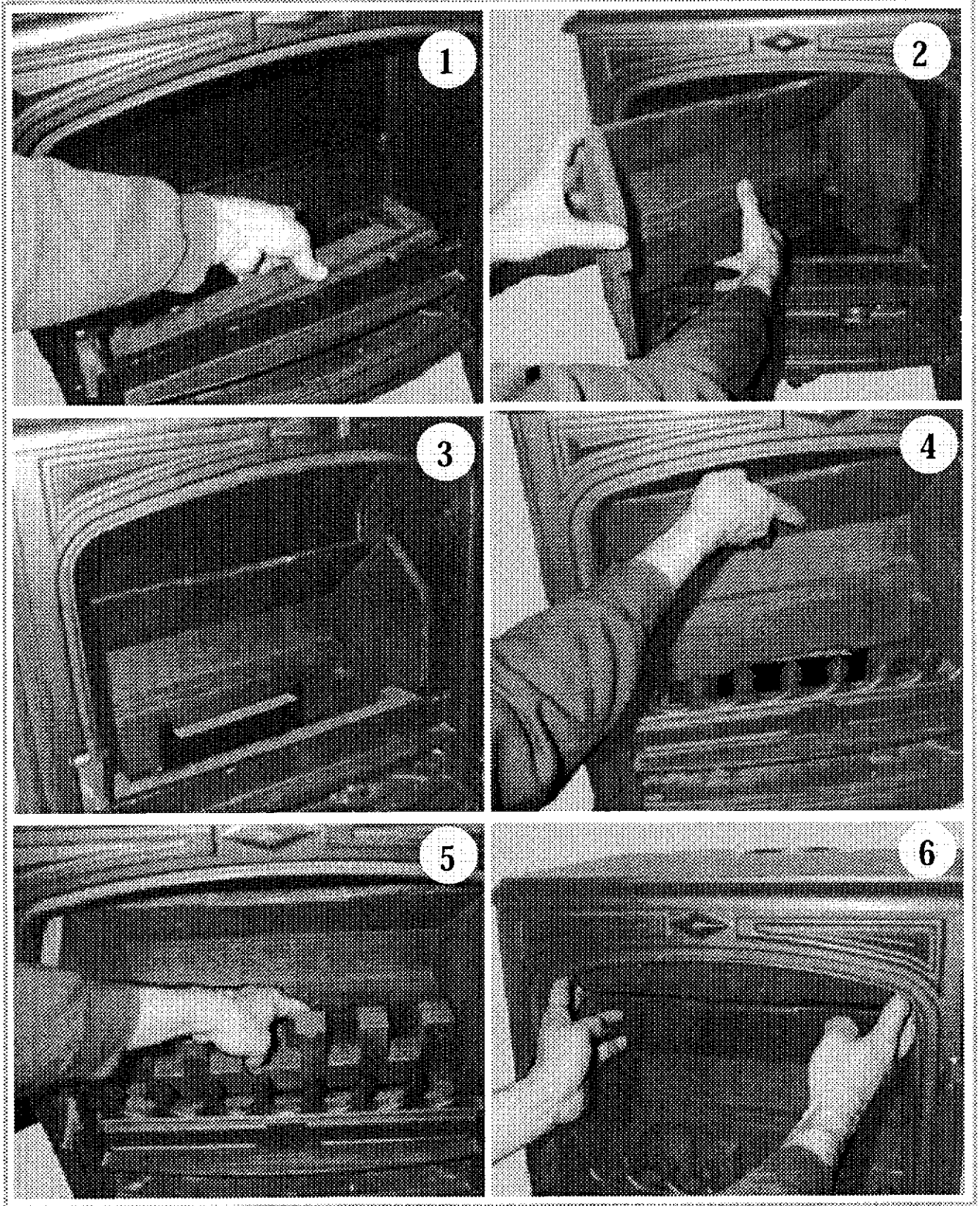


Figure 12 - Put back into position the refractory elements

2.12. Door closing pressure

The closing latch rotates around a pressure screw positioned cam (fig. 13).

- Remove gently the ceramics rope.
- Loosen pressure screw (1).
- Turn cam (2) to desired position.
- Tighten pressure screw (1).

2.13. Maintenance of the Chimney

Chimney condition should be checked at least once per year by a professional engineer.

Sweep the flue and the connecting pipe.

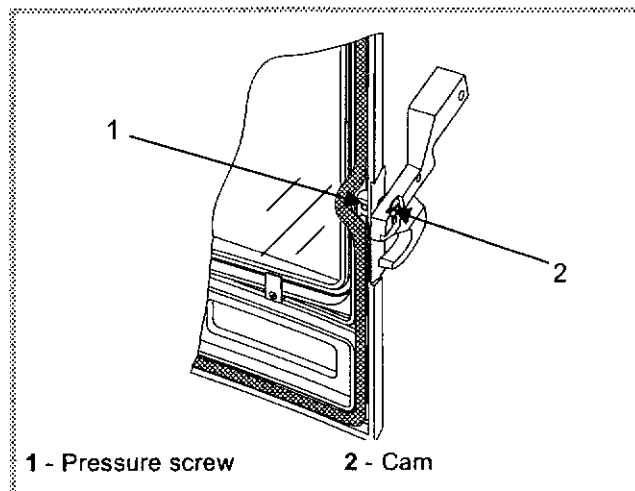


Figure 13 - Door closing pressure

2.14. Trouble shooting

Situation	Probable causes	Corrective action
The lighting electrode is not sparking.	Anomaly in the lighting circuit.	<ul style="list-style-type: none"> - Check the spacing and position of the electrode (fig. 10, page 7). - Check that the insulation of the spark plug is not cracked, and replace the spark plug if necessary.
The electrode produces sparks, but the burner does not ignite.	The gas valve is closed.	- Open the gas valve.
	The supply gas pressure is too low.	- Check supply gas pressure ; purge.
When the unit is started up, the flame goes out when the knob is released.	The thermocouple does not reach its operating temperature.	<ul style="list-style-type: none"> - When the flame is lit, KEEP KNOB DEPRESSED AT THIS POINT FOR 15 - 20 SECONDS. - Check the thermocouple position. It should be in contact with the flame.
	Fault in the thermocouple circuit.	<ul style="list-style-type: none"> - Remove the possible carbon deposits on the top of the thermocouple with an emery cloth. - Check the thermocouple connection to the valve.

3. Instructions for user

3.1. Important Notes

The appliance is set by your engineer to operate with the type of gas supply.

In the event of a modification of the gas supply, it is required to modify the settings and some components. These modifications can be done only by a certified engineer.

Any modification on a sealed component is forbidden. Consult your Installer prior to making any changes or modifications to the premises where the appliance is installed.

Please follow the instructions contained in this manual and avoid any carelessness.

The manufacturer does not engage its responsibility for any damage resulting from an improper use of the appliance, or any appliance or installation modifications.

3.2. Appliance start up.

The installation and 1st start up of the appliance must be done by a qualified installer. That person will also give you instructions on starting and running the appliance.

The data label is located under the base of the appliance (fig. 14).

The knob for ignition and power control is located under the base plate.

3.3. Lighting

Figure15

- Depress control knob fully. Whilst depressed, turn knob sharply 90 degrees anticlockwise from "0" setting to "low setting". This will allow the electrode to produce sparks.
- Repeat until flame light is visibly lit.
- Keep knob depressed at this point for 15 - 20 seconds.
- Upon releasing the knob, the flame light will be lit, if not repeat the operations.
- Turn the knob on the required setting.

Experience will show you which settings are best for your situation.

At the first lighting, the fire must be progressively increased to allow the various parts to expand normally and to dry up.

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

3.4. Extinguishing the burner

- From any heat setting, depress control knob fully and turn clockwise to "0" position and release.

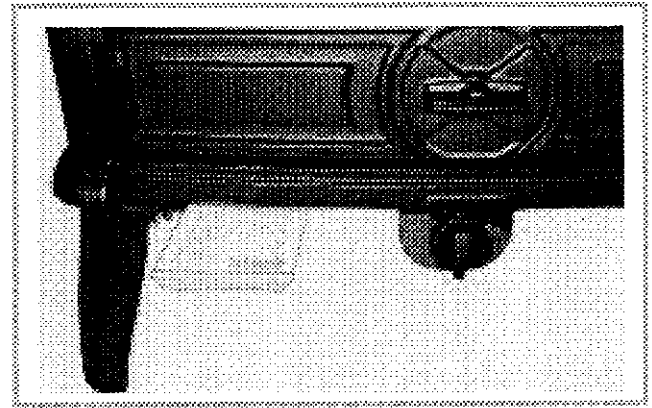


Figure 14

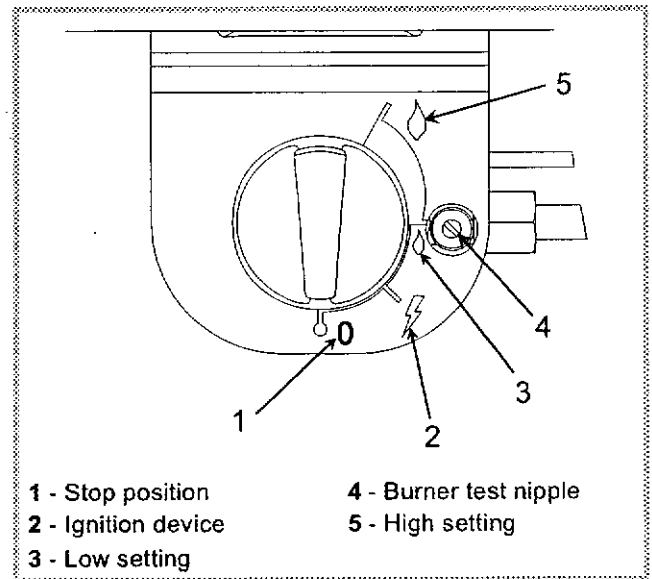


Figure15 - Control knob and burner test nipple

3.5. Safety devices

Burner safety : If there are faults in the gas supply or in lighting, the safety device (thermocouple) will shut down the gas tap automatically.

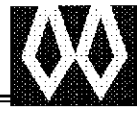
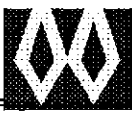
- It is advised for safety reasons to wait 5 minutes before lighting again the appliance.

If the problem occurs again :

- check that the gas valve is open
- check the gas supply.

Thermostatic switch (ttb) : In the event of a partial or total blockage the burner and the gas supply will be automatically cut.

- After cooling down, the thermostatic switch will be automatically reset
- Wait for around 10 min and re-light the appliance in accordance with section 'Lighting'.
- In case of repeated burner cut off, it is required to check the complete flue system (flue and connecting pipe and air inlet).
- Call your installer.



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 fall 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 indicted 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 : 154 07 04

Color : I 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.

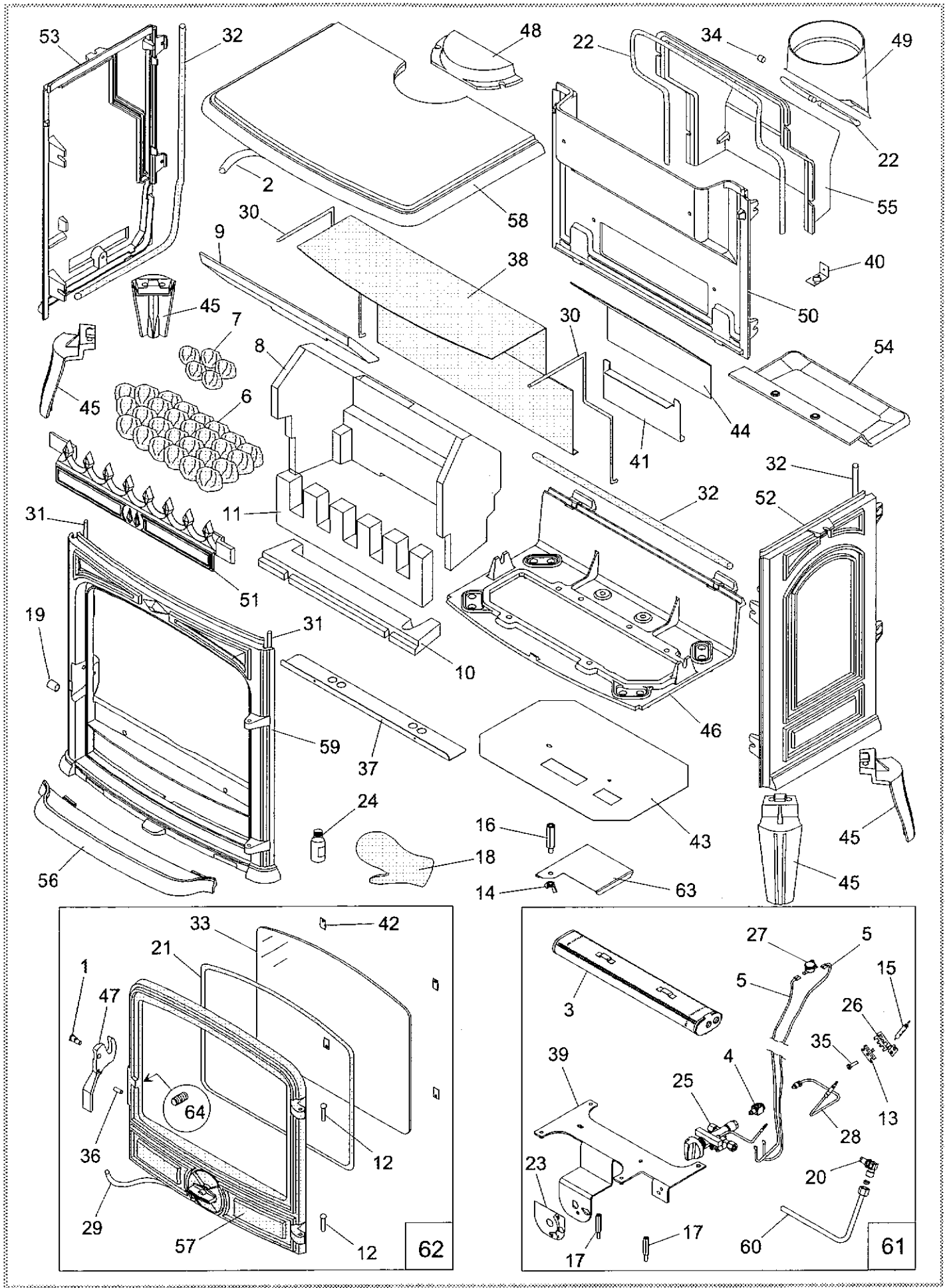


Figure 16 - Spare parts view

3.6. Recommendations

- If you smell gas : Do not smoke ! Avoid naked flames ; do not use electric devices. Open windows and doors, close the gas tap and call your installer way from the scene.
- Avoid making important dust in the proximity of the appliance specially when it is running.
- ☞ **This room heater is an appliance producing heat and may cause severe burns if touched. - keep children away.**
The stove may still be hot even when fire has burnt out.
- Close the safety tap when the stove is not used.
- Under no circumstances should the appliance be operated with the door open or the door glass damaged.

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.

N°	Codes	Description	Type . . .	A . . .	B . . .	Qty
1	100917	Cam pin	12x20 M7 . .	A . . .	B . . .	01
2	105006	Ceramic rope	Ø 15	A . . .	B . . .	1,60 m
3	105479	Burner NG		A . . .	B . . .	01
4	106038	Switch		A . . .	B . . .	01
5	109244	Cable	2,5 mm2 . . .	A . . .	B . . .	0,96 m
6	109722	Ceramic coal	(LF 23)	A . . .	B . . .	27
7	109723	Ceramic coal	(LF 5)	A . . .	B . . .	05
8	109872	Flue baffle		A . . .	B . . .	01
9	109873	Flue baffle		A . . .	B . . .	01
10	109874	Flue baffle		A . . .	B . . .	01
11	109875	Flue baffle		A . . .	B . . .	01
12	110404	Hinge pin	6x30	A . . .	B . . .	02
13	112452	Supplementary support		A . . .	B . . .	01
14	122204	Winged nut	diam. 8	A . . .	B . . .	01
15	124371	Electrode		A . . .	B . . .	01
16	124412	Strut		A . . .	B . . .	01
17	124454	Strut		A . . .	B . . .	02
18	134107	Glove		A . . .	B . . .	01
19	134258	Bushing		A . . .	B . . .	01
20	139602	Injector NG	82/800	A . . .	B . . .	01
21	142301	Adhesive rope		A . . .	B . . .	1,70 m
22	142316	Gasket	7x3	A . . .	B . . .	1,50 m
23	158280	Control plate		A . . .	B . . .	01
24	161048	Touch-up paint	(t)	A . . .	B . . .	01
25	166744	Gas valve + piezo		A . . .	B . . .	01
26	174655	Support		A . . .	B . . .	01
27	179046	Thermostat		A . . .	B . . .	01
28	179224	Thermocouple		A . . .	B . . .	01
29	181607	Ceramic rope	Ø 9,5	A . . .	B . . .	1,60 m
30	181617	Ceramic rope	15x2	A . . .	B . . .	1,04 m
31	181625	Ceramic rope	Ø 7	A . . .	B . . .	1,04 m
32	181631	Gasket	Diam 10	A . . .	B . . .	2,12 m
33	188820	Ceramic glass	379X293X4 . .	A . . .	B . . .	01
34	189118	Brass screw	d. 10	A . . .	B . . .	01
35	189982	Screw		A . . .	B . . .	01
36	189849	Screw	M6x16	A . . .	B . . .	01
37	202814	Support		A . . .	B . . .	01
38	222564	Flue baffle		A . . .	B . . .	01
39	236512 60	Burner support		A . . .	B . . .	01
40	237204	Support		A . . .	B . . .	01
41	238001	Support		A . . .	B . . .	01

3.7. Maintenance of the stove

Appliance servicing must be done once a year during summer time by a qualified engineer to avoid any problem or fault during winter-time. This person will also check safety devices.

Cleaning of the glass door can be done with a soft cloth dampened with water and vinegar or potassium ; this must be done when the appliance is cold ; then rinse with clear water. Do not use abrasive cleaners.

Should the glass break due to miss use, it must be replaced by the manufacturer's own product.

All the casing parts can be cleaned using a soft cloth either dry, or slightly damp. In case of condensation or water splashes clean the parts before they dry out.

Example : gas stove "Savoy", model : 154 07 04 Y, leg 300128 EF

A = 154 07 04 I B = 154 07 04 Y

N°	Codes	Description	Type . . .	A . . .	B . . .	Qty
42	259015	Fixing plate		A . . .	B . . .	04
43	260590	Heat shield		A . . .	B . . .	01
44	269427	Deflector		A . . .	B . . .	01
45	300128 EF	Leg			B . . .	02
45	300128 MP	Leg		A . . .		02
46	300487	Base		A . . .	B . . .	01
47	301541 EF	Door lock			B . . .	01
47	301541 MP	Door lock		A . . .		01
48	303625 EF	Top plate			B . . .	01
48	303625 MP	Top plate		A . . .		01
49	303872 EF	Flue collar		A . . .	B . . .	01
50	306280 EF	Back wall		A . . .	B . . .	01
51	307438 EF	Fuel retainer		A . . .	B . . .	01
52	310731 EF	R. side panel			B . . .	01
52	310731 MP	R. side panel		A . . .		01
53	310828 EF	L. side panel			B . . .	01
53	310828 MP	L. side panel		A . . .		01
54	314711 EF	Exchanger base		A . . .	B . . .	01
55	321804 EF	Draught diverter		A . . .	B . . .	01
56	327903 EF	Tray			B . . .	01
56	327903 MP	Tray		A . . .		01
57	331110 EF	Main door			B . . .	01
57	331110 MP	Main door		A . . .		01
58	352159 EF	Top plate			B . . .	01
58	352159 MP	Top plate		A . . .		01
59	359800 EF	Front plate			B . . .	01
59	359800 MP	Front plate		A . . .		01
60	982642	Feed line regulator-burner		A . . .	B . . .	01
61	905924	Complete burner NG		A . . .	B . . .	01
62	988875	Complete door			B . . .	01
62	988876	Complete door		A . . .		01
63	276007	Descriptive plate		A . . .	B . . .	01
64	189825	Screw	M5x6	A . . .	B . . .	01