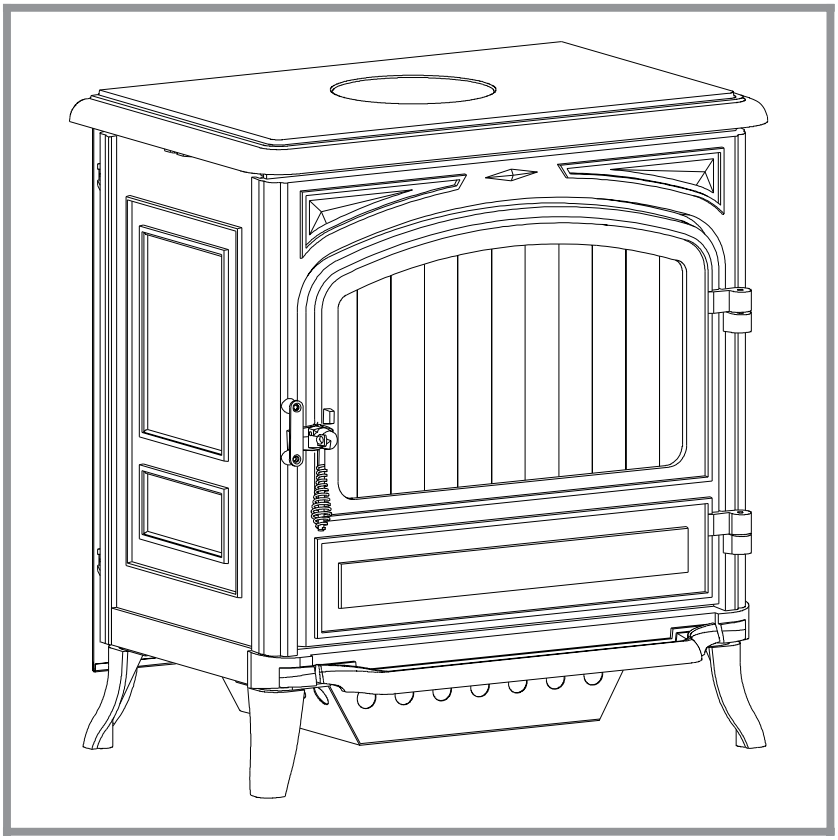
Burgundy

Oil Fired Room Heater

Ref. 174 10 38

Fuel oil (28 seconds)



Description of the appliance

Installation instructions

Operating instructions

Spare parts

Warranty certificate

Document n° 918-3 ~ 15/04/1999

Technical manual

to be saved

by the user

for future reference

FRANCO BELGE

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RC Hazebrouck 445750565B
Subject to modifications

CONTENTS

1. Description of the unit

1.1. Package

- 1 package : Stove complete.
- Optional : visioflame (72561).

1.2. Specifications

Nominal Heat Output (NF D 35-385)		
	kW	10
	Btu/hr	34130
Oil consumption at :		
- maximum speed	litre/h	1,25
	gal/hr	0,275
- minimum speed	litre/h	0,25
	gal/hr	0,055
Chimney draft required at :		
- maximum speed	Pa	20
	in.w.g.	0,080
- minimum speed	Pa	6
	in.w.g.	0,024
Weight	kg	130
	lbs	260
Flue outlet diameter (O/D)	mm	120/125
	in	5

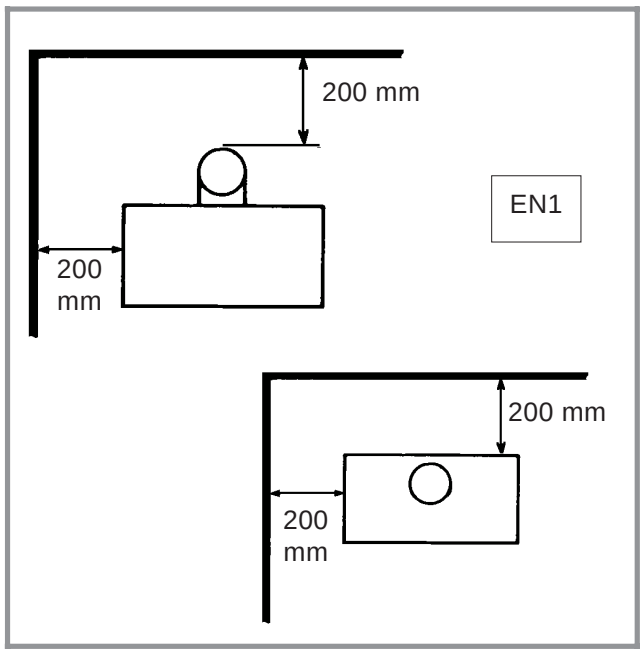


Figure 1 - Minimum clearances to combustible surfaces

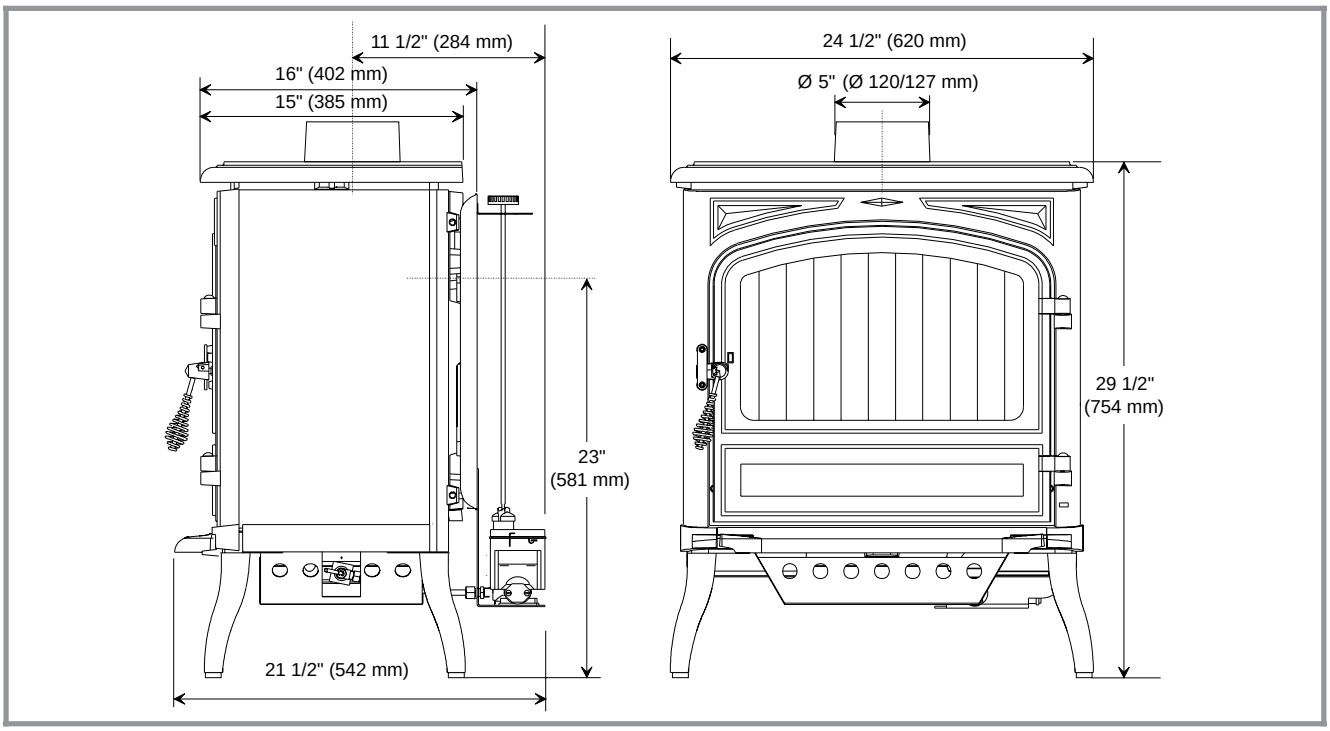


Figure 2 - Dimensions in mm

SAFETY NOTICE : Read carefully all instructions before starting the installation. If the stove is not properly installed, a house fire may result. For your safety, follow the installation directions. Contact local building or fire officials about restrictions and installation inspection in your area.

2. Installation instructions

2.1. Position of the unit

- The position of the appliance must be chosen very carefully in order to obtain the best possible results for heat distribution.
- Position the unit to comply with the minimum clearances to combustible material. Minimum clearances are shown from the vertical portion of the chimney connector. Check that no overhead cross members in the ceiling will be cut. Reposition unit if necessary, being careful not to move closer than the minimum clearances.

2.2. Chimney

- Ensure that the flue has sufficient draught (refer to technical details).
- Minimum flue diameter, 10 cm (4" I.D).
- The chimney must be at least 4.5 m (15 ft high).
- The flue must not be shared with any other appliance.
- Downdraughts caused by obstacles close to the chimney top may sometimes be prevented by fitting an anti-downdraught cap to the top of the chimney.
- The chimney must have a constant cross section. Too large a flue could affect the chimney draught.
- The chimney must be soundly constructed, in order to prevent cold air infiltration.
- The flue must be well insulated, water and air tight. A chimney with a cold internal surface can prevent a good chimney draught and condensation will occur.
-The flue must be swept at least once a year.

2.3. Chimney connector

- The appliance must be as close as possible to the chimney. Avoid horizontal flue connection pipes which can dangerously restrain functioning of the appliance.
- The connector pipe must be either 24 ga. black painted or blued steel or 316 grade 20 ga. stainless steel or 1 mm vitreous enamelled steel, with a maximum diameter of 125 mm (5" O.D.). Single wall pipe may be utilized being careful to maintain clearances to any combustible surface.

Once the stove has been properly installed the chimney draught must be checked with a draught meter.
If the chimney draught is excessive or irregular, a draught stabilizer (barometric damper) must be installed to the connector pipe.

2.4. Top flue connection

The stove is supplied with a rear flue connection (ill. 4), for the top flue connection (fig. 3) :

• Remove the internal baffles (see ill. 12, ill. 13 and ill. 14) and the rear heat shield.

• Fix the sealing rope in the groove on the top and fit the flue spigot, ensuring there is a good seal.

• Fix the sealing rope in the groove on the rear and fit the two blanking plates, ensuring there is a good seal.

• Replace the internal baffles.

• Fix the blanking plate on the rear heat shield (# 14, fig. 3) with 4 screws supplied.

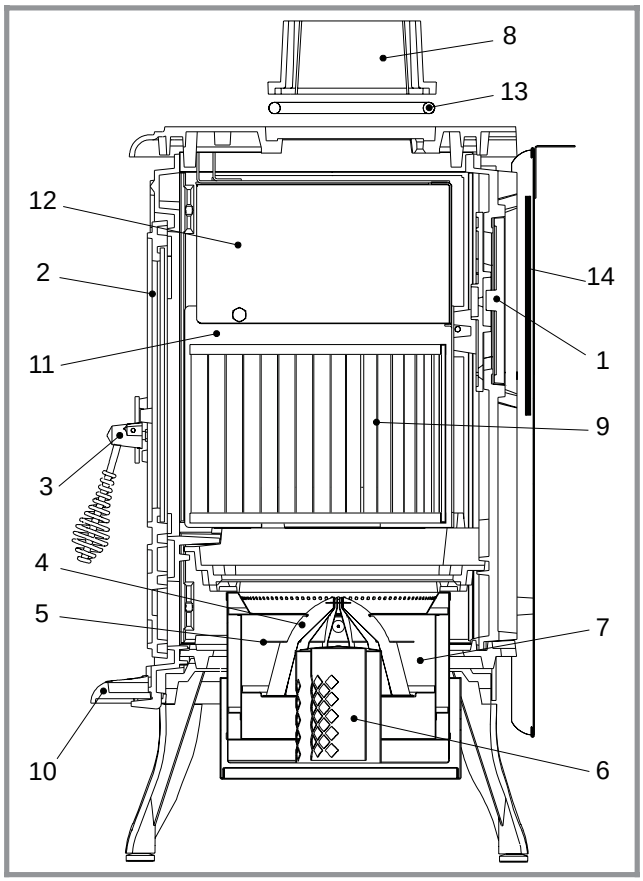


Figure 3 - Top flue outlet

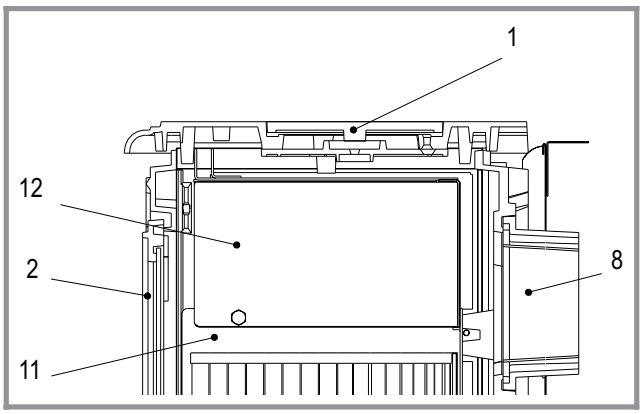


Figure 4 - rear flue outlet

Fig. 3 - Top flue outlet, fig. 4 - rear flue outlet

1 - Blanking Plate	7 - Burner
2 - Main Door	8 - Flue Collar
3 - Door Handle	9 - Reflector
4 - Catalyser Top	10 - Tray
5 - Upper Ring	11 - Baffle support
6 - Catalyser	12 - Baffle

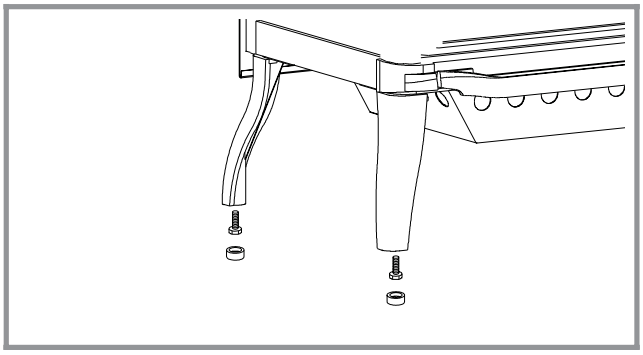


Figure 5 - Adjustment screws

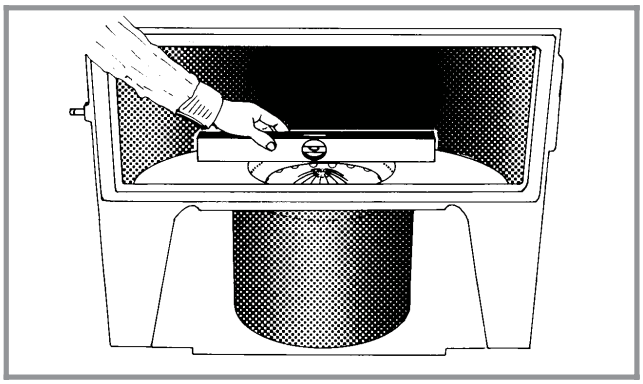


Figure 6 - Burner level check

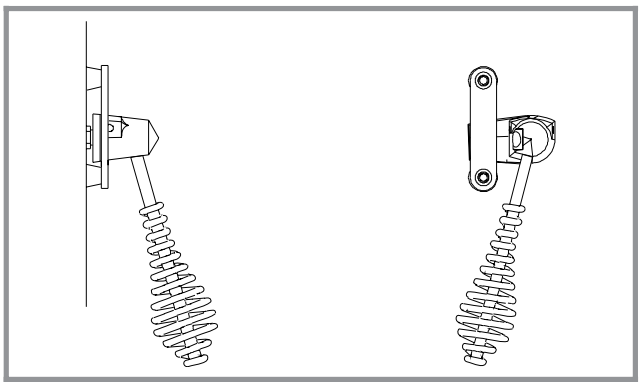


Figure 7 - Fitting of the handle

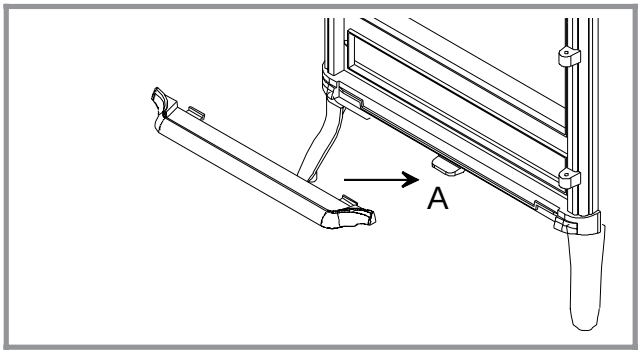


Figure 8 - Fitting the tray

2.5. Pre-utilisation check

- Check, that the seals are in good condition, that the door closes correctly, that the glasses are not damaged, that all removable parts (baffle, reflector, catalyser) are correctly installed (ill. 3 & ill. 4).

2.6. Levelling

It is essential that the appliance sits level on the hearth. Fit the 4 screws and the 4 caps supplied (on the burner) on each leg of the stove (ill. n° 5). Use a spirit level to check. (ill. n° 6).

Place the spirit-level across the burner and adjust the bolts until the burner has reached a level position.

2.7. Mounting the tray

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

- Fixed the tray, of the appliance (ill. 8). Center on tab “A” and lower into place.

2.8. Fitting of the handle

In order to avoid the damaging of the threading, first put the handle in operating position then screw it into the taping of the lock (see ill. 7).

2.9. Oil supply

A barometric fuel tank will not be used where it will be in the direct rays of the sun or adjacent to a source of intense heat.

If the tank is more than 8 ft (2,5 m) higher than the stove a pressure reducer must be used (see ill. # 9).

If the tank is lower than the stove a lift pump will have to be utilized (see ill. # 9).

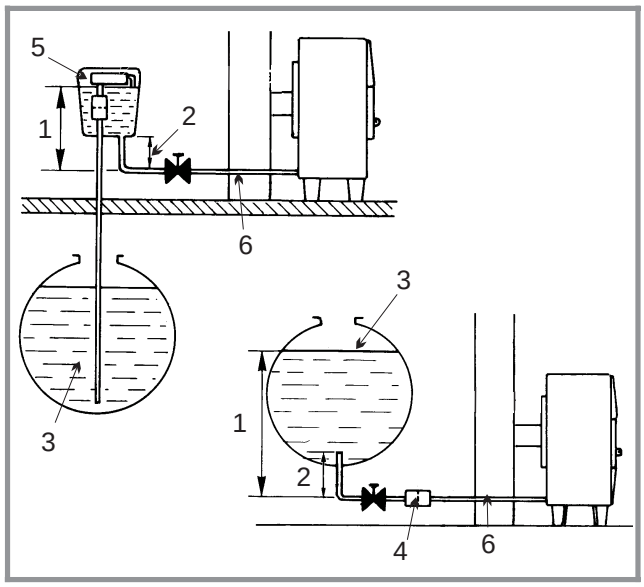


Figure 9 - Gravity or pumped oil supply

13 - Sealing rope	2 - At least 0,8 ft
14 - Blanking plate	3 - Oil Tank
1 - 8 ft maxi	4 - Filter

2.10. Oil flow adjustment

The float regulator has been adjusted at the factory and should not need further adjustment.
If the burner does not work correctly, check possible causes before readjusting the settings :
- Chimney draught - Fresh air inlet - Oil supply.

Low setting (# 2, ill. 10) :
- Set the regulating knob on “1" and let the burner run for a few minutes. The flame must completely cover the bottom of the burner and the catalyser body must be glowing red hot.
- If the flame is too small, the stove will soot up quickly ; increase the flame by turning the setting screw # 6 clock-wise.
- If the flame is too high ; reduce the flame by turning the setting screw # 6 counter clock-wise

High setting (# 3, ill. 10) :
- Set the regulating knob on “6" and let the burner run for a few minutes. The flame must be shaped like a cone and reach the upper part of the window.
- If the flame is too low ; increase the flame by turning the setting screw counter clock-wise.
- If the flame is too high ; reduce the flame by turning the setting screw clock-wise.

Please note - Very important : The adjustments of the float regulator are very sensitive. The hight and the low setting screws must never be turned more than a 1/4 of a turn at a time in any direction from their initial setting. When making any adjustments, allow 3 to 5 minutes between adjustments to allow burner to stabilize to previous adjustment before proceeding, if necessary.

2.11. Chimney draught

Once the stove has been properly installed, the chimney draught must be checked.

The adjustment of the draught will be made with the barometric damper located at the back of the stove # 1 of ill. n° 10.

The reading of the draught must be done once the unit is hot (minimum 30 minutes of use).

Refer to the specifications p. 3 for minimum draught requirement on mini setting and on maxi setting.

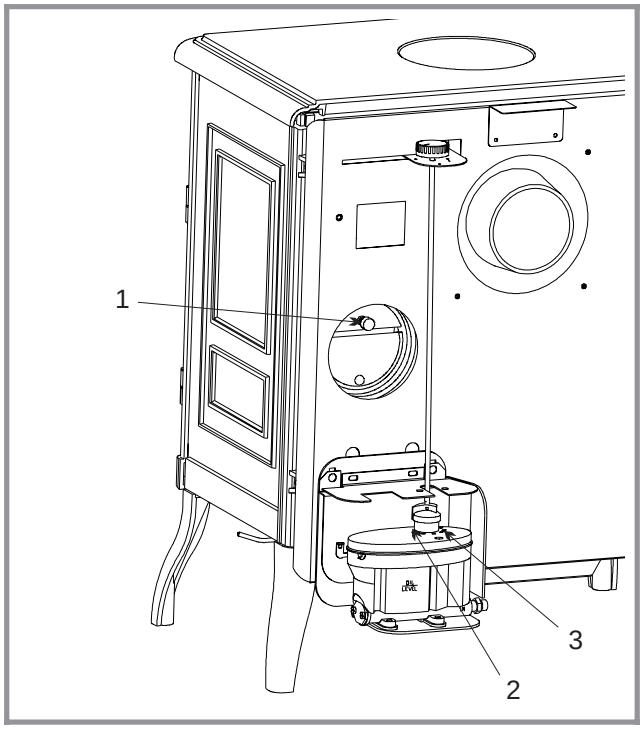


Figure 10 - Operating devices

5 - Suction pump with reserve and filter
6 - Pipe Ø 1/4 in.
1 - Adjustment of the draught regulator

2.12. Maintenance of the Chimney

Chimney and chimney connector should be inspected at least once every three months during the heating season to determine if a soot build up has occurred. If soot has accumulated, it should be removed to reduce the risk of a chimney fire.

Once or twice a year : Remove the flue baffle (ill. 12, 13, 14, and 15 page 8). First remove the top plate (2 screws, one on each side of the stove).

3. Operating instructions

3.1. Fuel

Warning : Your stove is fitted with a specific float regulator for a specific oil. The fuel oil must be free from any dirt and water which could disturb the stove in operation.
Use only kerosene (28 seconds)

3.2. Lighting procedure

- Remove Catalyser from burner through front door (# 4, 5 and 6 of ill. 3, p. 4) . Make sure the inside of pot is cleaned thoroughly.

Be sure the control knob is to “0".

- Turn on oil supply,
- Push down gently on the safety lever (# 3 of ill. 11). This will allow the oil to flow into the regulator.
- Open the front door, and remove the catalyser from burner. Make sure the inside of the pot is clean thoroughly, and there is no oil accumulation.
- Place 2 tablespoons of methylated spirit or gelled alcohol in the bottom of the pot. Light the starter gel or methylated spirit with a fireplace match or long butane lighter. Place the catalyser back into the burner, being sure it is centered in the burner. Shut the main door.
- Allow the catalyser to heat approximately 30 to 45 sec.. Turn DAIL to “1" position.
- Allow 10 to 15 minutes for oil fire and draught to stabilize. The catalyser should glow red before adjusting the control knob to a higher setting,

3.3. Operating procedure

• Allow 10 to 15 minutes after lighting to adjust the control knob to a higher setting, usually between a “2" and ”4" setting.

When adjusting the heat output, move the control knob only 1 number in either direction, allowing 5 minutes between moves for the flame to re-adjust to new setting.

• If the burner stops during operating, immediatly turn off the control knob (position “0") and wait until the burner is completely cool before repeating the lighting procedure.

3.4. Shutting down

- Set dial to the"0" position,
- Raise the safety lever of the regulator.
- Allow the flame to burn out completely before opening the door

3.5. Recommendation

- The adjustment of your unit has been carried out by your installer. Do not attempt to further adjust. Any anomaly of operation must be reported at once to your installer.
- The appliance body does reach high temperatures and it is recommended that a fire guard be used to protect small children and elderly people from the risks of burns and accidents.

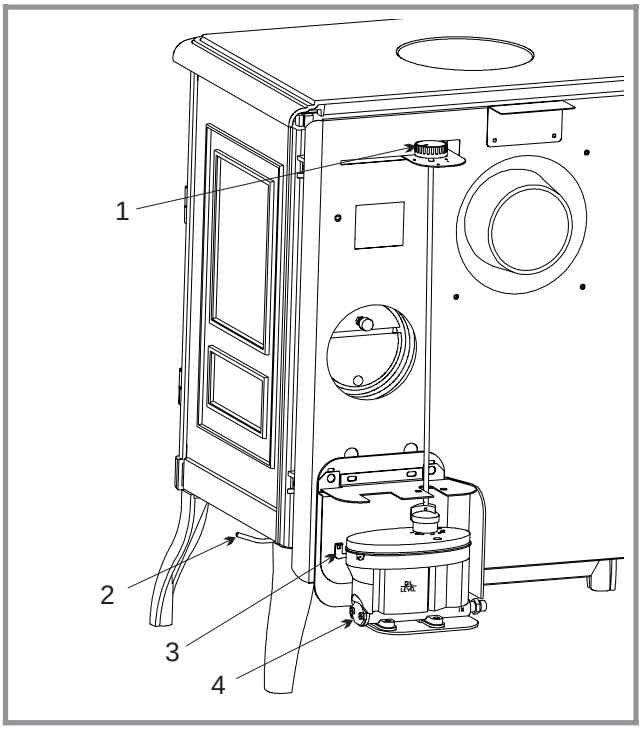


Figure 11 - Operating devices

2 - Adjustment screw for mini setting
3 - Adjustment screw for maxi setting
1 - Regulation knob
2 - De-scaling lever

- Do not overfire. If the unit or chimney connector starts to glow you are overfiring.

Racing : Very important flame generating vibrations : cause by too much oil in the pot due to the height of dial setting and/or lack of draught.
- turn off oil supply until fire has decreased to a steady burn rate.

3.6. Maintenance of the stove

Every week : operate the de scaling lever (# 2 of ill. 11) :
- Pull the rod then push the rod in rotating completely two or three times (Caution : the rod is hot).

Every 3 or 4 months : clean the burner completely.
- Remove all the internal parts (# 4, 5 & 6, ill. 3, p. 4) and clean the burner pot.

At least once a year : clean the filters of the oil supply.

To clean the filter of the regulator :
- set the regulation knob in position “0",
- turn off the tank valve or the valve of the oil supply,
- raise the safety lever of the regulator,
- place a small container under the aperture of the filter in order to collect the oil contained in the regulator,
- remove the plug of the filter located under the regulator (# 4, ill. 11) with a screwdriver,
- take out the filter and clean it with oil using a soft brush, never use a wire-brush,
- replace the filter and replace the plug.

Clean all the enamelled panels of the casing with a dry or slightly damp soft cloth. This must be done only when the stove is not working.

Use a soft cloth to clean the front glass when the unit is running at a low burning rate.

3.7. Removing the flue baffles

Figure 12

① - Withdraw the reflector.

② - Remove the two screws.

Figure 13

• To desengaged the flue baffle you must, while holding it, push on the back of the support.

Figure 14

• Remove the baffle from the firebox.

Figure 15

• To remove the baffle support you must press the two sides toward the inside and rotate the part to remove it side wise.

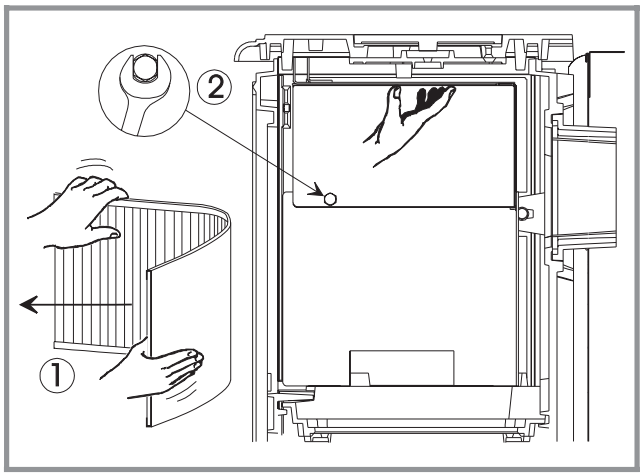


Figure 12

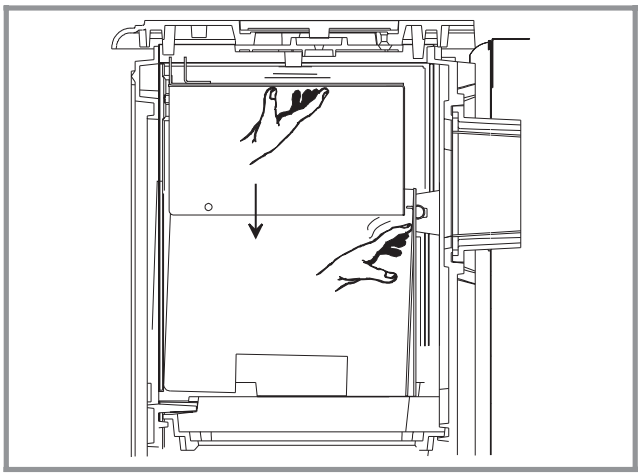


Figure 13

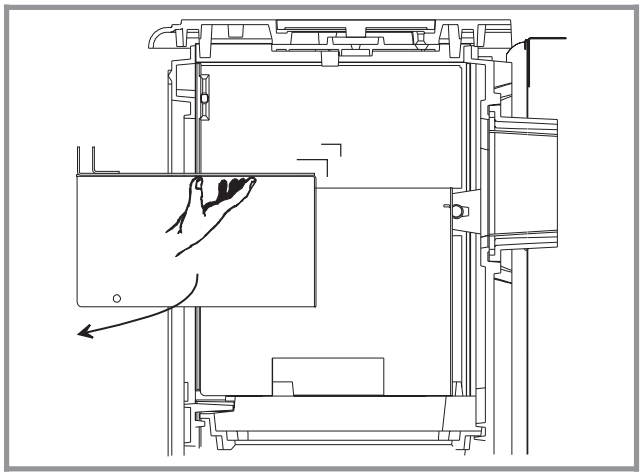


Figure 14

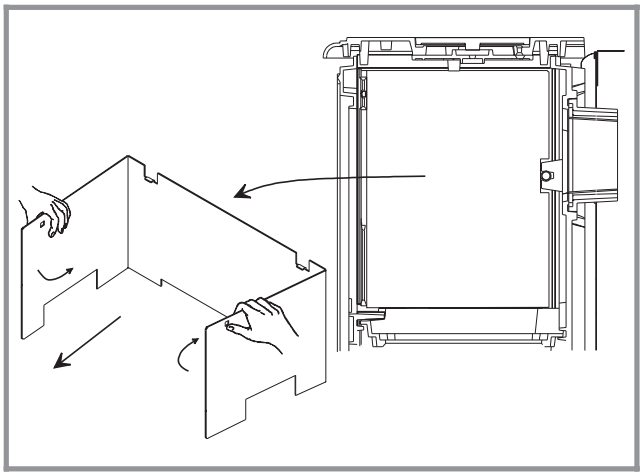


Figure 15

3.8. Trouble shooting

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

Situation	**Cause**	Action
Flames extinguish during lighting.	¤ **Very cold chimney. No draft established.**	- Leave door ajar until fire has caught. - Check air supply in the room.
Fire extinguishes once firestarter has burnt off.	¤ **Fuel tank is empty.**	- Fill tank.
	¤ **Fuel valve is closed.**	- Open valve.
	¤ **Main regulator float not engaging.**	- De-press the safety lever.
	¤ **Control knob is set on "0"**	- Adjust control knob to "1".

Fire extinguishes during use.	¤ **Fuel tank is empty.**		- Fill tank.
	¤ **Insufficiant draft.**	☑	- Call your installer.
Flame is excessely large, smokey and sooty.	¤ **Fuel adjustment made too quickly.**		- Return control knob to “1"; wait for normal combustion. (catalyser should glow red) Wait 5 to 15 minutes between each adjustment.
Stove burns noisily, extinguishes and relights itself.	¤ **Burner contains excess fuel.**	☑	- Adjust to lower setting. If problem persists call your installer.
	¤ **Insufficient fuel.**		- Check that the de-scaler, the regulator filter and burner pot are cleaned.
Fire smokes.Soot build up noticed. Flame imbalance	¤ **Insufficient air supply.**		- Increase fresh air supply (open door, window; add make up air supply).
	¤ **Downdraft or blockage in chimney.**	☑	- Check Chimney for Soot build up. clean if necessary. - Ensure chimney height is sufficient and cap is not affected by any nearby obstructions. - Room is in negative pressure. Increase fresh air supply. Check draft with draft meter and adjust if not to requirements. See page 3.
	¤ **Oil flow is too low on 1 setting.**	☑	- Adjust low flow rate while control is set on “1", call your installer.
	¤ **Stove is not level. Flame imbalance.**		- Check level. Adjust if necessary.
	¤ **Catalyser not centered. Uneven fuel distribution resulting in secondary air shortage.**		- Center catalyser assembly
	¤ **Insufficient fuel.**		- Check that the de-scaler, the regulator filter and burner pot are cleaned.
	¤ **The draft regulator is blocked in open position**		- Unlock the draft regulator. - Check the regulator adjustment (p. 6) and refit, if necessary.
Coke build up noticed.	¤ **Excessive air supply.**		- Adjust draft.

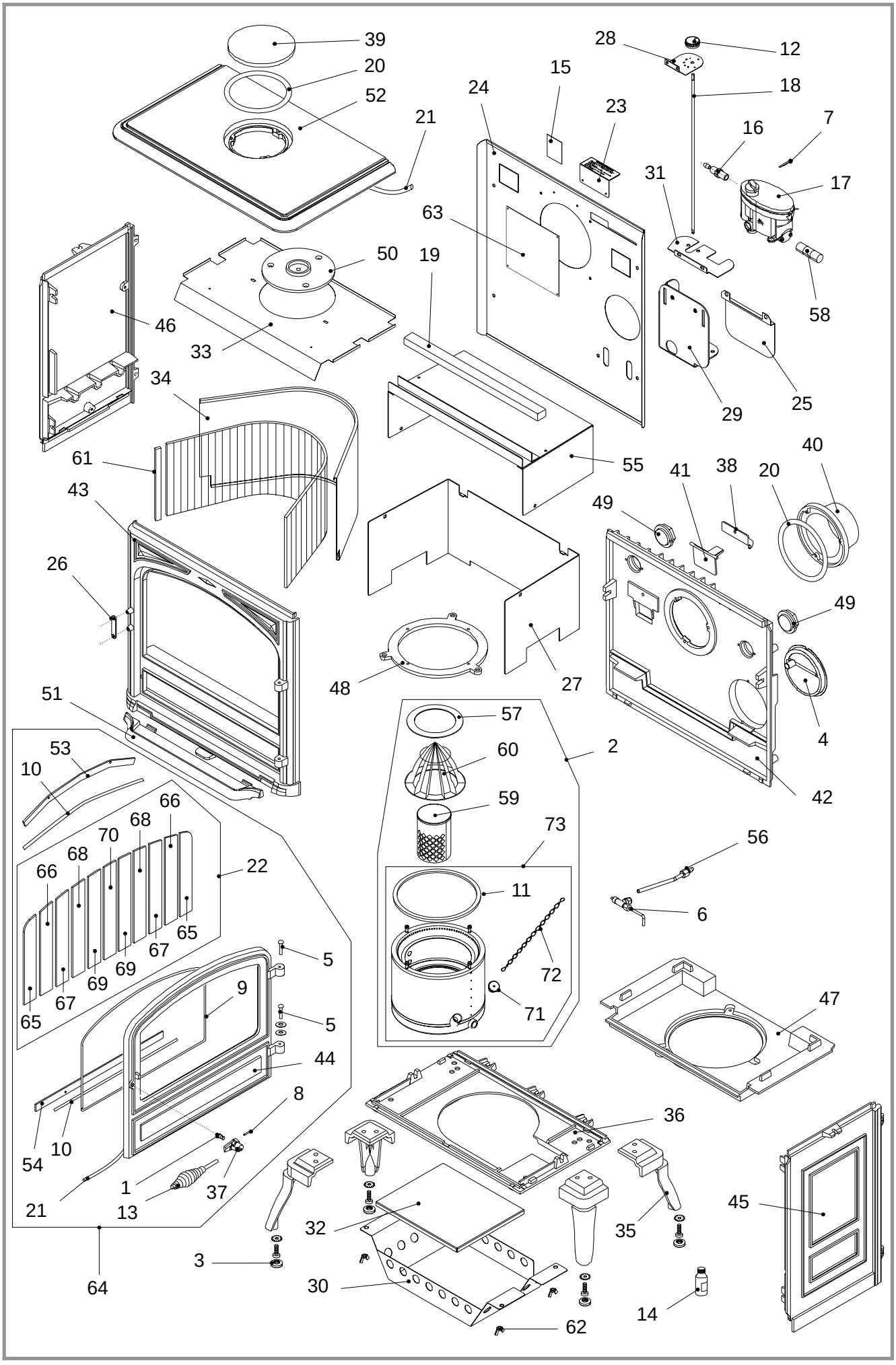
4. Spare parts

For any order of spare parts, please indicate : model number, code of the colour, description of the part, code number and colour index of the part.

Example : Burgundy 174 10 38 L, top plate 352124-77.

A = 174 10 38 **Y** **B** = 174 10 38 **L** **C** = 174 10 38 **K**

N°	Code	Description	Type	A	B	C	Qty
1	100956	Axle		A	B	C	01
2	905324	Complete burner	C5	A	B	C	01
3	109552	Cap		A	B	C	04
4	110105	Barometric damper		A	B	C	01
5	110405	Hinge pin	6x35	A	B	C	02
6	119213	Descaler		A	B	C	01
7	134601	Pin	2X20	A	B	C	02
8	134749	Pin	4x20	A	B	C	01
9	142301	Adhesive rope		A	B	C	1,32 m
10	142316	Gasket	7x3	A	B	C	0,86 m
11	142412	Gasket		A	B	C	01
12	149868	Knob		A	B	C	01
13	158541	Handle		A	B	C	01
14	161025	Touch-up paint	(L)		B		01
14	161026	Touch-up paint	(K)			C	01
15	162449	Descriptive plate		A	B	C	01
16	164205	Oil-tight nut		A	B	C	02
17	165139	Float regulator		A	B	C	01
18	179605	Regulator shaft		A	B	C	01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19	181600		Ceramic rope	32x14	A	B	C	0,47 m
20	181604		Ceramic rope	10x4	A	B	C	1,00 m
21	181615		Ceramic rope	Ø 12	A	B	C	3,16 m
22	188791		Refractory glass	11 PART.	A	B	C	01
23	202801		Support		A	B	C	01
24	205386		Back panel		A	B	C	01
25	209913		Protector		A	B	C	01
26	221200	66	Striking plate		A	B	C	01
27	222549		Flue baffle		A	B	C	01
28	236708	94	Bracket		A	B	C	01
29	239714	60	Carburettor support		A	B	C	01
30	260580	60	Heat shield		A	B	C	01
31	261811	60	Heat shield		A	B	C	01
32	262216		Shield		A	B	C	01
33	262307		Heat shield		A	B	C	01
34	276219		Reflector		A	B	C	01
35	300122		Leg		A			04
35	300122	76	Leg				C	04
35	300122	77	Leg			B		04
36	300472		Base		A	B	C	01
37	301515	66	Door lock		A	B	C	01
38	303301		Bearing		A	B	C	01
39	303718		Blanking plate		A			01
39	303718	76	Blanking plate				C	01
39	303718	77	Blanking plate			B		01
40	303828	59	Flue collar	Ø 120/127	A			01
40	303828	76	Flue collar	Ø 120/127			C	01
40	303828	77	Flue collar	Ø 120/127		B		01
41	909400		Sliding door		A	B	C	01
42	306273		Back wall		A	B	C	01
43	309857		Front plate		A			01
43	309857	76	Front plate				C	01
43	309857	77	Front plate			B		01
44	309975		Main door		A			01
44	309975	76	Main door				C	01
44	309975	77	Main door			B		01
45	310723		R. side panel		A			01
45	310723	76	R. side panel				C	01
45	310723	77	R. side panel			B		01
46	310821		L. side panel		A			01
46	310821	76	L. side panel				C	01
46	310821	77	L. side panel			B		01
47	312625		Burner support		A	B	C	01
48	321903		Rim		A	B	C	01
49	325304		Reducing plate		A	B	C	02
50	327801		Clamp		A	B	C	01
51	327901		Ash-tray		A			01
51	327901	76	Ash-tray				C	01
51	327901	77	Ash-tray			B		01
52	352124		Top plate		A			01
52	352124	76	Top plate				C	01
52	352124	77	Top plate			B		01
53	276607	60	Glass retainer		A	B	C	01
54	407204	60	Glass retainer		A	B	C	01
55	622600		Suppl. flue baffle		A	B	C	01
56	982608		Feed line regulator-burner		A	B	C	01
57	198205		Catalyser ring		A	B	C	01
58	199204		Regulator filter		A	B	C	01
59	194402		Catalyser body		A	B	C	01
60	194401		Catalyser cover		A	B	C	01
61	72561		Mirror glass	34x(260x20)	A	B	C	01
61	199309		Mirror glass	1x(260x20)	A	B	C	34
62	122204		Winged nut		A	B	C	04
63	236129		Blanking plate		A	B	C	01
64	988847		Complete door		A			01
64	988848		Complete door			B		01
64	988849		Complete door				C	01
65	199310		Refractory glass		A	B	C	02
66	199311		Refractory glass		A	B	C	02
67	199312		Refractory glass		A	B	C	02
68	199313		Refractory glass		A	B	C	02
69	199314		Refractory glass		A	B	C	02
70	199315		Refractory glass		A	B	C	01
71	104708		Plug		A	B	C	01
72	109718		Chain		A	B	C	01
73	905321		Basic burner		A	B	C	01

FRANCO BELGE

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, 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 indicted voltage (230 V).

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

✉ Installer :

_ _

_ _

Name and address

☎ Telephone :

✉ Customer :

_ _

_ _

Name and address

Date of installation :

Model of the appliance : ❑ **174 10 38**

color : ❑ **K** ❑ **L** ❑ **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.

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