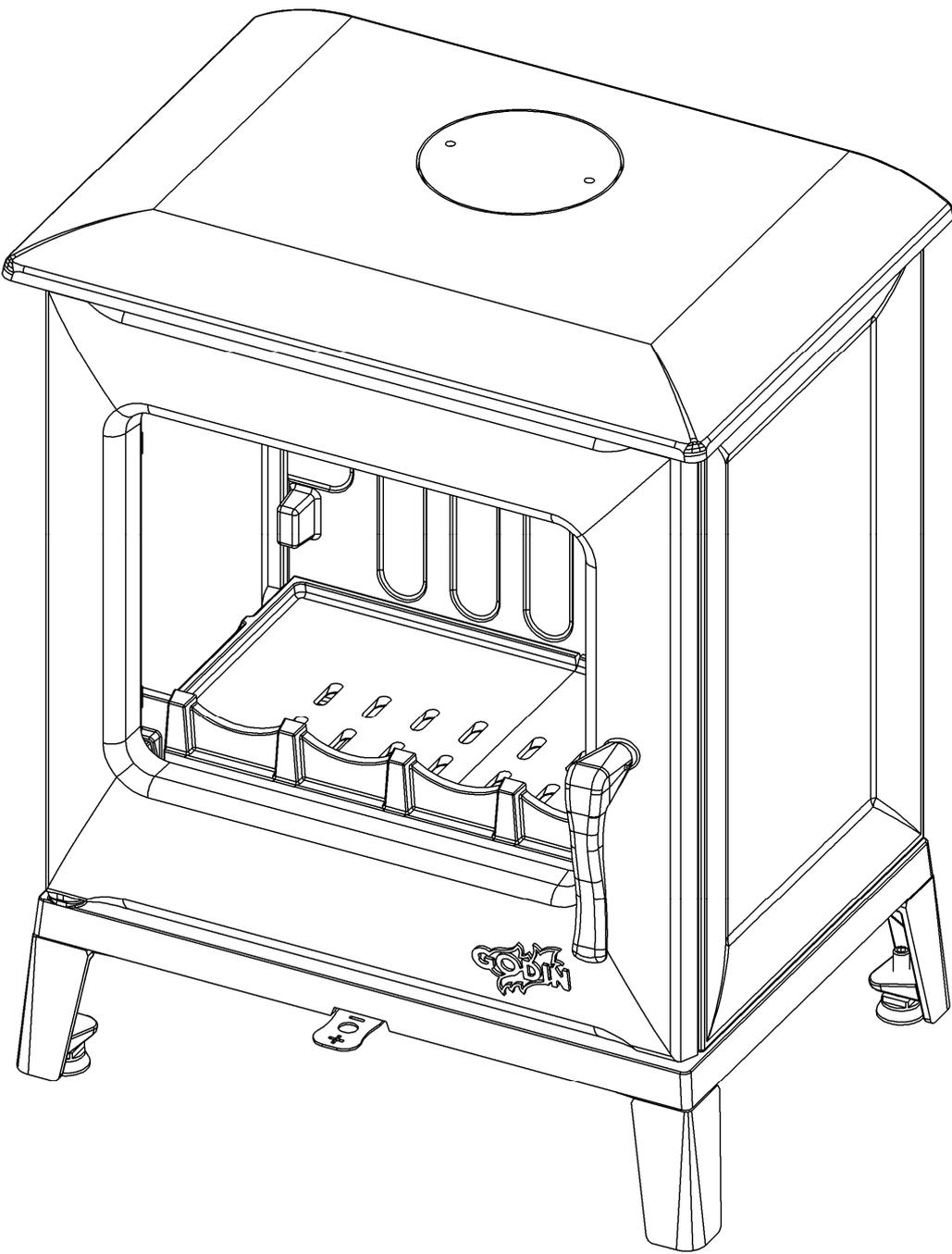


Wood burners
Petit Cube ref. 388134

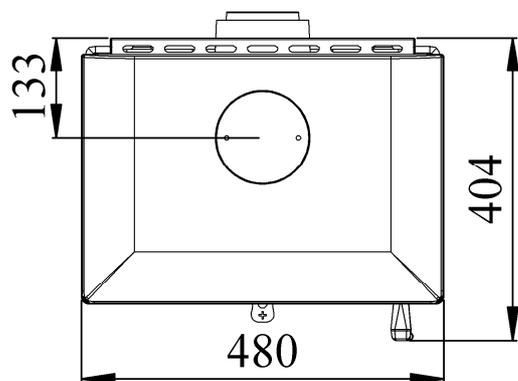
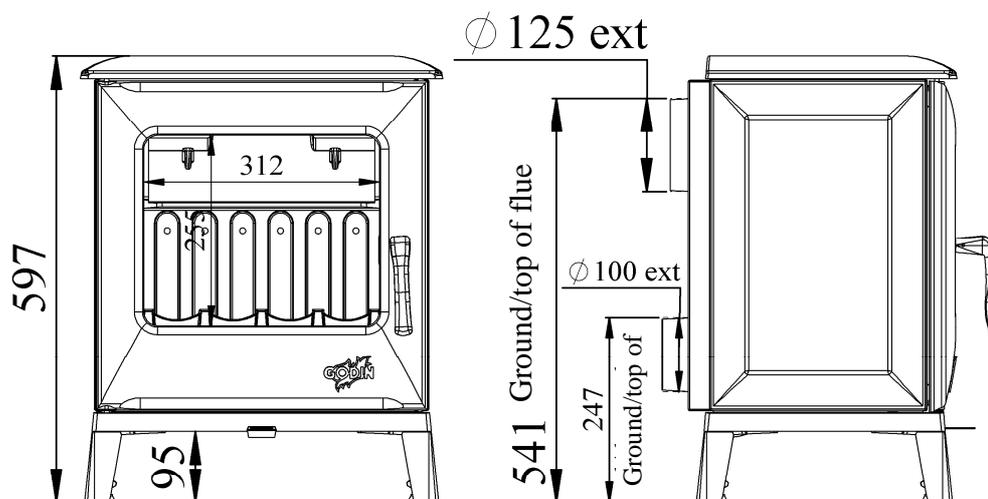


Foreword:

- You have purchased a Petit Cube wood burner and we thank you for your custom.
- This burner has been carefully studied, designed and manufactured in France to provide complete satisfaction.
- It is essential to read this manual carefully before installing your burner.
- We recommend keeping this manual in a safe place, even once your burner has been installed.

These appliances are tested to the criteria of the NF EN 13240 European standard.

TECHNICAL SPECIFICATIONS



Firebox (L x H x D in cm).	40 x 20 x 22
Flue diameter	Ø125 mm exterior
Flue on the top or behind	yes
Recommended fuel	Logs
Front loader, maximum log size (in cm)	33 cm
Wide panoramic window (withstands up to 750°C)	yes
Cast iron firebox	yes
Controls	manual
Weight (kg)	92 kg
Power (kW)	5 kW
Corrected heated volume up to (m ³)	75 to 180 m ³
Fire duration at normal settings*	45 mins.
Smoke mass flow	7.4 g/sec
Output	75.3 %
CO level in smoke at 13% O ₂	0.07 %
CO ₂ level in smoke	8.34 %
Concentration of discharged dust at 13% O ₂	38.3 mg/Nm ³
Consumption at normal setting	2.24 kg/h
Average smoke temperature	292.1 °C
Minimum distance to adjacent flammable materials	45 cm / behind 50 cm / sides 150 cm / front
Appliance for occasional use	yes

* with a load of 1.68 kg of wood at 13.8% moisture content and a calorific power of 14.958 MJ/Kg.

INSTALLER INSTRUCTIONS

- Always comply with the rules applicable in the country of installation. In France the combustion product evacuation system must be built in compliance with DTU 24.1 of February 2006.
- First of all, make sure the chimney flue is of good quality. It plays an essential role. It will have an impact on the final result by supplying the firebox with primary air and extracting the combustion gases.

Most inconveniences you may experience when using the wood burner are linked to the chimney flue. We cannot insist enough on this point... You should not content yourself with the results obtained by a previous appliance of which the air supply requirements might have been very different.

- A good chimney must be built from low heat conductivity materials and should not cool easily.
- The minimum flue diameter for closed-door operation can be 150 mm on condition that the sizing of the smoke flue as per the EN 13384.1 standard authorises this size. Whenever possible, we recommend the use of a flue with an interior diameter of 180 mm.
- Any reduction of this size, even at the exit, should not be tolerated as it could reduce the flow of smoke leading to smoke blowing back into the room when the door is opened.
- The chimney must start in the room the appliance is installed in.
- Back-draft dampers are prohibited.
- The flue must be perfectly sealed.
- The connecting flue and the chimney flue or lining used must have a G rating (meaning they can withstand chimney fires). The appliances must be connected to flues rated at 50°C more than the appliance's declared temperature, however they are connected.
- The height must not be less than 5 metres and it must exit to the open air at least 0.40 m above the roof ridge or any other obstacle located at less than 8 metres from the flue.
- Any eventual bends must be very covered.
- The draft must be between 12 and 15 pascals for normal settings and should drop to about 5 pascals with a reduced air supply. It should never drop below 12 pascals at a normal setting as this would give mediocre performances.

If the pressure difference is too big, plan to install a draft regulator. If there is not enough pressure difference, comply with the flue specifications in this section.

- If the flue cross section is oversized, the volume to heat is too big and the draft does not appear normally. In this case, plan to line the flue using a wood/coal approved product.

All lining must be compliant with DTU 24.1 (in France). Its sizing follows precise calculation rules (EN 13384.1 standard) that only a professional is trained to define.

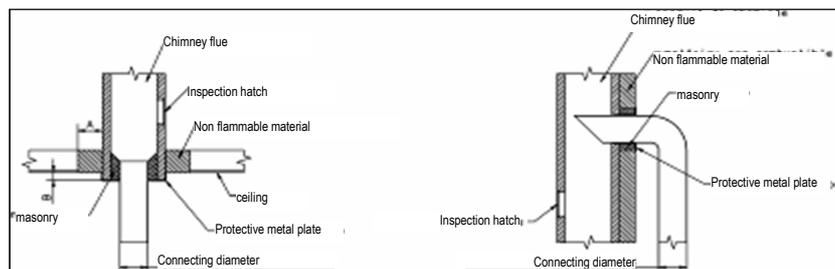
- Remove chimney pots that have an output cross section of less than 2.5 dm².
- It is recommended to have a chimney sweeping hatch located at about 50 cm above the axis of the connecting flue.
- Before considering connecting, make sure the flue is perfectly clean. If necessary, have the chimney swept.
- The appliances must be installed in compliance with the applicable D.T.U. specifications (in France), installation by a qualified professional is recommended. All local and national regulations must be complied with.
- Extractors used in the same room, or in the same space, as the appliance can have a dangerous disrupting effect on its operation.
- The simultaneous use of other appliances in the same space as this appliance may disrupt the stack effect.
- Never obstruct the air intakes in the room. Place them so that they are difficult to block. The appliance uses air it takes from the room, so the air supply must have a sufficient contribution from outside.
- These appliances are not designed to be connected to a multiple flue.
- The nozzle is fitted in the factory and fixed at the back (if back connection is possible). You can connect directly to the flue using a horizontal pipe. You can also connect to the top. In this case switch the nozzle and the stopper.

IMPORTANT:

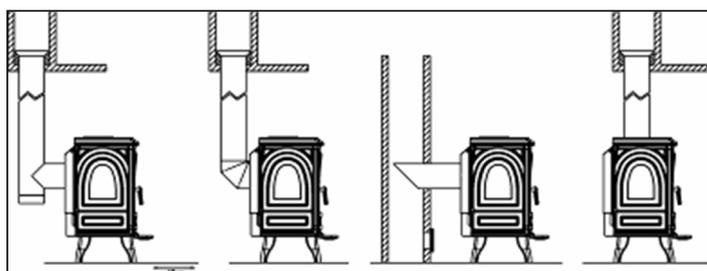
- Check that the floor has a sufficient load bearing capacity. If necessary, place a load distribution plate, or take all other necessary appropriate measures.
- **If the flooring is composed of flammable materials, it must be suitably protected using a fireproof plate that extends beyond the front of the appliance by at least 40 cm.**
- Use pipes of the correct diameter, preferably enamelled, as their resistance to corrosion is remarkable. Their length must be as short as possible so that the heat of the smoke is used to create the draft.
- **The back wall must not have any flammable elements.** If this is not the case, it must be effectively protected (use of Mo or A2-s1-do materials). A safety distance from flammable materials at the back of **45 cm** must be implemented.
- The walls on the left or right of the appliance must be distant from the appliance by at least **50 cm** if composed of flammable materials.
- In the case of a traditional wood burner, the ceiling must be at least 80 cm above the appliance.
- The appliance radiates heat naturally and we recommend moving any flammable material (wooden chairs, sofas, etc.) in front of the appliance to a distance of at least **150 cm**.

CONNECTION TO THE CHIMNEY FLUE

The appliance should be connected in compliance with DTU 24.1 (in France). The safety distances from the outer walls of the connecting flue and the chimney flue from any flammable material (A) must also be compliant with the requirements of this standard. They especially depend on the type of flue, its thermal resistance and its temperature class. There should be no junctions within the thickness of the floor (plan offset B).



Example of a connection to the chimney flue



General connection rules for a pipe on the top or at the back (if possible)

USER INSTRUCTIONS

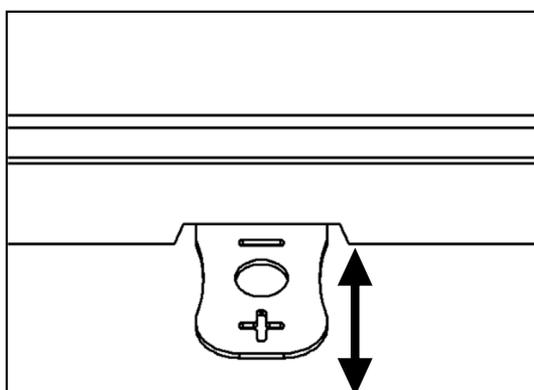
- Before using the appliance, read the instructions and recommendations carefully.
- The appliance must be installed in accordance with applicable national regulations in the country the appliance is installed.
- Installation by a professional is strongly recommended.
- Never obstruct the provided air intakes.
- The appliance must be connected to a chimney flue that is not connected to other appliances. It is not suitable for use on multiple flues.
- Never make any unauthorised alterations to the appliance.
- The appliance is not designed to be used with the door open.
- All the appliance's surfaces are active (hot). It is essential to take all precautions to avoid burns.
- Take all precautions to keep children and the elderly at a sufficient distance to prevent accidents.

AIR SUPPLY

- The appliance takes the air it needs from the room it is in. Therefore always make sure it has a sufficient air supply.
- Part of this air is used as "primary air", while another part is transported to the front to be used as "secondary air" to complete combustion and limit dirt accumulating on the window.
- The quantity of air used for combustion must be compensated for by an external air supply (plan for a ventilation grate).

LIGHTING AND ADJUSTING

- Open the door.
- Put the usual lighting materials inside, light and load moderately while leaving the air intake fully open.
- To encourage the fire to light, the door can be left slightly ajar for a few minutes on condition that it is watched over continuously.
- Once the fire has started burning correctly, load the required quantity and adjust the combustion using the air regulation controls.



NOTE:

- When the appliance is running, move all materials that could be altered by heat away from it, such as furniture, paper, clothing.
- The control has two markings (+ and -). The more the control points towards the +, the higher the air intake capacity. Normal burning can be achieved using a position such as the above.

CAUTION:

- We burning normally, the handle should not be touched with bare hands. Use the glove for the operation. Furthermore, the combustion chamber and the ash-box compartment must remain closed to prevent smoke from blowing back, except when the fire is being lit, or when it is being reloaded or when residue is being cleared out.
- Always keep the door closed when in use.
- Loading is via the door on the front of the appliance.
- At a normal rate, use 6 to 8 six cm diameter logs on a significant bed of embers, and set to positions 2 or 3.
- For heating over an extended period, only use 3 logs, but of a bigger diameter, 13 to 15cm on an average bed of embers.

For slow burning, leave the fire until the bed of embers has fallen correctly, then load 1 or 2 large logs, leave the big logs and set the air controls to the minimum.

NOTE: The duration of the slow burn will depend on the wood used and the chimney's stack effect. Do not load more than a **25 cm** height of fuel.

CONTROLLING THE APPLIANCE

- Always follow the instructions.
- When lighting the fire for the first few times, only load limited amounts to check that the unit is in working order. Gradually increase the wood load over several days.
- Do not use the appliance as an incinerator.
- Only use the recommended fuel.
- Do not light the fire if the window is broken or cracked. Have it replaced before any further use. We recommend you contact your dealer to have the window replaced as a paying service. We insist on the need to replace the door and window seals at the same time, and above all not to tighten too much when reassembling, so that dilation is not hampered.
- After a long period of inactivity, check that the flue is not obstructed, as well as the connecting pipe and the smoke flues inside the appliance.

Loading: VERY IMPORTANT RECOMMENDATION

Only load the fire when it is sufficiently low. Do not open the door if you can see high flames, as these risk to be taken in a back draft when the door is opened.

Always open the door gently to allow the draft to set itself up and thus avoid any back blow from the chimney.

IMPORTANCE OF THE FUEL

This appliance should give full satisfaction. Remember that any appliance can only release the energy contained in the fuel it burns.

If you believe your appliance is not heating enough, one can assume that:

- Either the quantity of fuel being burnt is insufficient.
- Or the burned fuel does not have sufficient available energy.

Only burn dry wood that was felled more than two years before its use (36 months would be even better). We strongly recommend the use of NF label heating firewood.

As a rule, all wood has the same calorific power for the same weight. Hard wood will be interesting because it is denser and often less humid. The moisture contained in the wood varies by 15% for dry wood, to 50% for damp wood. Remember that a lot of energy will be required to evaporate that water.

The energy available for heating would be 4.16 Wh per Kilogram of dry wood. For wood with 50% moisture content, it would only be 1.73 Wh.

Furthermore, the use of damp wood would cause condensation in the chimney, rapidly dirtying it and would risk, in the long term, causing chimney fires.

ASH REMOVAL

- Empty the ash box at least every 2 to 3 days depending on use. Precautions must be taken when doing this. Make sure to use the glove to carry the ash-box and the hook to manipulate it.
- Never let ash accumulate in the ash-box until it is in contact with the grate. This would prevent it from cooling and would cause damage to it very quickly.

CHIMNEY CLEANING

- Have your chimney swept by a professional using a mechanical tool at least twice per year, including once during the heating season. The contractor must issue you with a certificate. The flues can also be maintained using a suitable product. This, however, cannot replace the mechanical sweeping of the chimney.
- Check the appliance and make sure the door seals are in good condition. Replace them if necessary.
- Completely clean the inside of the appliance including the smoke flues.
- Clean the window using GODIN NET window special (ref. 0009).
- If a chimney fire starts, close the air intakes and call the fire brigade.

CARE

Have your appliance checked by a qualified person at least once per year.

CAUTION

- **WHEN FIRST USING THE APPLIANCE, OPERATE IT AT A MODERATE SPEED TO ALLOW THE PARTS TO EXPAND NORMALLY.**
- **THE HANDLES ARE HOT WHEN THE APPLIANCE IS IN USE. USE THE GLOVE (if included).**
- **THE GLOVE SHOULD ONLY BE USED TO OPERATE THE HANDLE. IT IS NOT SUITABLE FOR THE HANDLING OF BURNING OBJECTS. IT IS NOT WATERPROOF. DO NOT USE WHERE THERE IS A CHEMICAL RISK.**
- **AFTER USE, MAKE SURE YOU STORE THE GLOVE IN A LOCATION WHICH IS FREE FROM COMBUSTION RESIDUE (ASH) AND AWAY FROM HEAT.**

When the burner is first used, do not worry if smoke and an unpleasant smell are released the first few times, this comes from the paint on the different parts. These phenomena can last for a few days.

Caring for the cast iron and steel

All steel or cast iron wood burners require minimum care to protect them over time at the end of winter and during the hot season. In fact, when a wood burner is used there is no possibility of the parts composing the appliance oxidising. This can only occur during extended periods without use.

Cast iron parts should be regularly treated using black stove paste (ref.0012). It is applied when the appliance is cold, like shoe polish, and requires buffing with a soft cloth when dry.

High temperature paint (cast iron grey ref.0001) in a spray can can also be used to get a neater finish on the outer parts of the wood burner. Before applying the paint, make sure you remove all traces of oxidation using fine grain sandpaper.

Full cast iron wood burners with an enamel exterior finish require the inside of the firebox to be maintained.

This operation is all the more essential for appliances installed in houses that are only occupied occasionally.

All our care products are listed in our general catalogue (stove paste, paint, window cleaning, chimney sweeping products, etc.). They are available for purchase from our dealers.

Special warning for the door:

The shafts on our doors are fitted with cone-point set screws or brake washers.

CAUTION: If the door is to be removed by your installer (window replacement, etc.), it is important to refit the brake washers (new) on the door and/or the original cone-point screws.

SPARE PARTS

If, after many years, some parts need to be replaced, contact your SUPPLIER, or any other PROFESSIONAL WHO DISTRIBUTES OUR BRAND.

Give them the indications on the IDENTITY PLATE or on the WARRANTY CARD, which should be kept imperatively, even after the warranty has expired.

The professional will have all the parts lists and technical documentation for our products and will be able to quickly supply all spare parts and carry out the repairs.

Never use spare parts that are not supplied by GODIN S.A.

Never make any alterations to the appliance without permission.

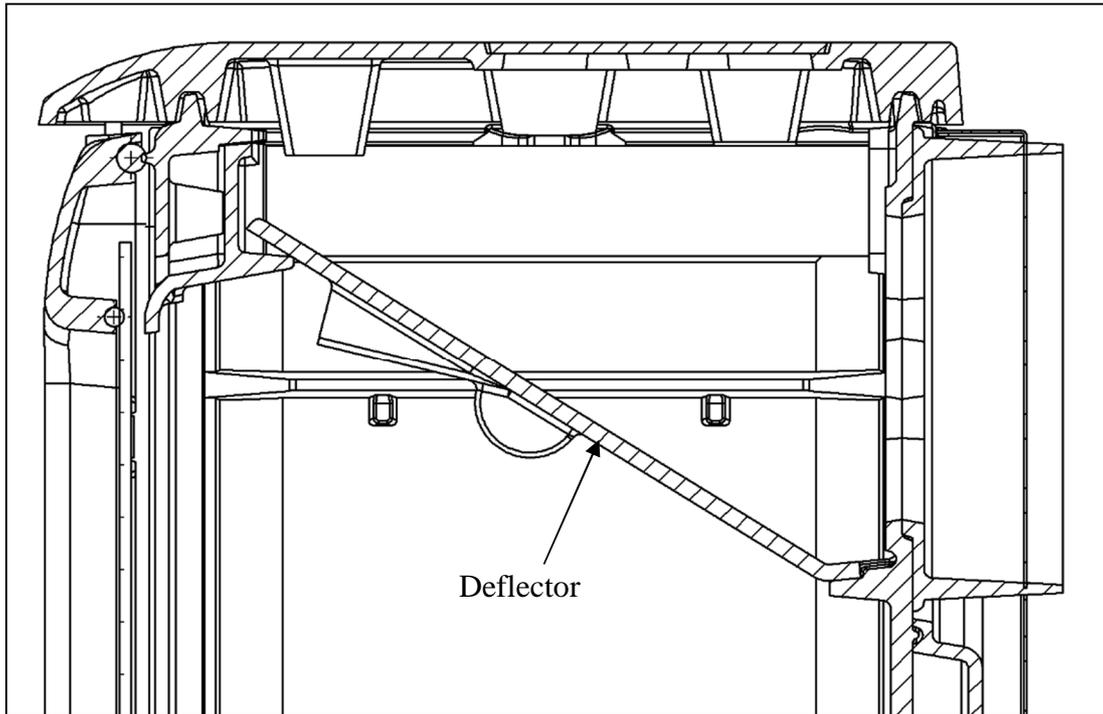
LIABILITY

Remember that the manufacturer's liability is limited to the product as sold. The installer is fully liable for the installation and commissioning according to trade practices and the instructions in the manual.

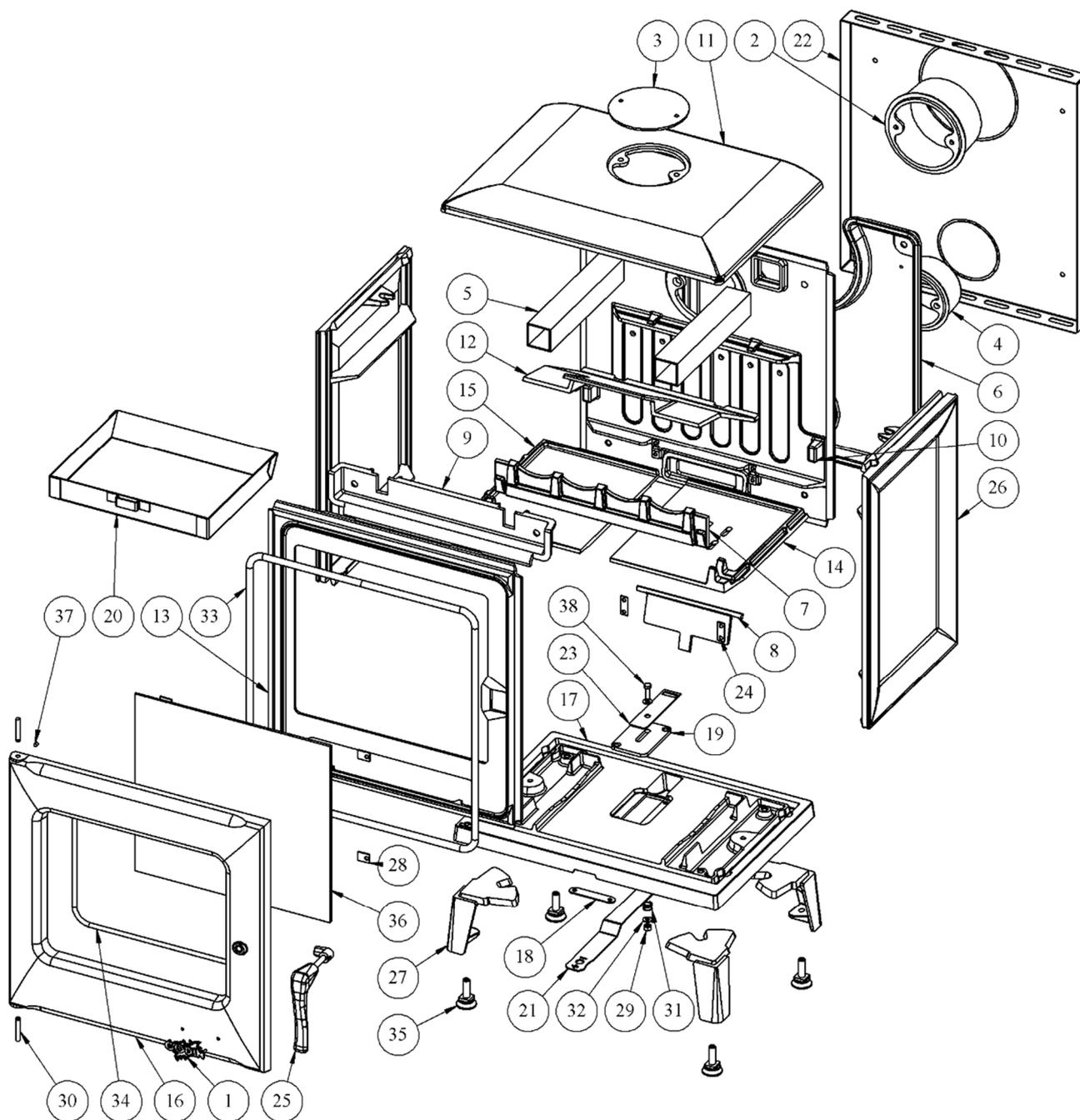
In order to continuously improve its products, GODIN S.A. reserves the right to modify its appliances without notice.

FITTING THE DEFLECTOR

The deflector is fitted at the bottom on the back rib and at the top on the secondary air flue as shown below (cross section view).



○ Exploded view and parts list for wood burner 388134 Petit Cube:



N°	Nb	Description	Coding
1	1	Badge	1 8501 034400 - 021
2	1	Ext. Ø125 nozzle	1 4312 3721 - 53
3	1	Cleaning hatch (125)	1 4230 3721 - 53
4	1	Ext. Ø100 nozzle	1 4312 388103 - 053
5	2	Supply tube	1 3509 388112 - 000
6	1	Air supply box	1 5079 388112 - 053
7	1	Fire-dog	1 0306 388112 - 053
8	1	Damper	1 4166 388112 - 053
9	1	Secondary air flue	1 4112 388112 - 053
10	1	Back	1 2401 388112 - 053
11	1	Top	1 1101 388112 - 053
12	1	Deflector	1 0131 388112 - 053
13	1	Front	1 2101 388112 - 053
14	1	Right side grate	1 0262 388112 - 053
15	1	Left side grate	1 0261 388112 - 053
16	1	Loader door	1 2831 388112 - 053
17	1	Base	1 2215 388112 - 053
18	1	Air regulation control yoke	1 4125 388112 - 000
19	1	Air regulation control face	1 4122 388112 - 000

N°	Nb	Description	Coding
20	1	Ash-box	1 3316 388112 096
21	1	Air shut-off control	1 4196 388112 - 000
22	1	Protective plate	1 2420 388112 - 000
23	1	Air regulation control	1 4120 388112 - 000
24	2	Damper seat	1 4128 388112 - 000
25	1	Handle	1 2878 388112 098
26	2	Side	1 2317 388116 - 053
27	4	Leg	1 2208 388116 - 053
28	4	Window holder	1 2071 660101 - 018
29	1	H M6 nut	00001300265
30	2	6x40 grooved pin	00001305127
31	1	Spring 961	00001301991
32	2	JZC6 14x6x1 washer	00001300900
33	1	Braid diam 10.5 len1700	00001304691
34	1	Self adhesive braid diam 7 len 1250	00001304860
35	4	Screw cylinder d30 M10 len30	00001306750
36	1	EP4 Glass 313x333	00001307902
37	2	HC M5x8 cone-point screw	00001306744
38	1	TH M6x20 screw	00001301240

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GODIN CONTRACTUAL WARRANTY

Our appliances:

- have a 6 year warranty for full cast iron wood burners and wood burner inserts - closed wood burner fireboxes (only the heating body, not the parts in direct contact with high temperatures and subject to wear which are listed below and have a one year warranty).
- 2 years for other appliances.

against all defects starting from their date of sale to the end user, on condition that the installation, use and maintenance conditions indicated in the manual delivered with the appliance have been followed.

Parts in direct contact with high temperatures that may suffer distortion due to wear have a 1 year standard replacement warranty, such as:

- decorative plates, side plates when removable, the firebox grates and floor,
- the deflectors, chicanes, dampers, fire-dogs, ash-box,
- refractory bricks,
- articulated mechanisms (cooker oven door hinges, handles, etc.)
- lifting mechanisms,
- fans, overheating thermostats for our appliances fitted with a blower,
- temperature control components, oven thermostats, heating elements, fan heaters for gas and electric ovens,
- burners, catalysts, burner rings for fuel powered appliances,
- wood-coal central appliance boilers.

Decorative elements have a 2 year warranty.

Our appliances are specially designed for the replacement of these parts as parts of your appliance's maintenance.

Some parts have a longer warranty:

3 years for the cast iron or steel heating elements of our central heating boilers.

Our warranty is limited to the replacement of the part if our Post-sales department acknowledges it is defective. It excludes any indemnity, compensation, labour and transport costs.

If the repair is too expensive compared to the cost of the appliance, the decision to replace or repair the appliance is exclusively made by the GODIN S.A. Post-sales department.

The following are not covered by the warranty: **THE WINDOWS ON OUR APPLIANCES**

Vitro-ceramic glass can withstand thermal shocks in the order of 750°C. As possible breakage can only be caused by a mechanical impact during use, incorrect refitting or handling, these elements cannot be replaced under the warranty.

The same applies to the seals which are considered to be wear parts and are outside the scope of the warranty.

The warranty will not be applicable if:

- The damage has been caused by overheating
- The installation is defective
- The damage is the result of the use of the appliance with fuel other than that recommended in our manuals.
- The damage to parts is caused by external factors (chimney back-draught, storms, damp, non compliant pressure or negative pressure, thermal shock, etc.).
- Anomalies, damage or accidents caused by dropping, impacts, negligence, incorrect supervision or incorrect maintenance by the purchaser.
- Abnormal use of the appliance in conditions other than those for which it was built. For example, the failure to follow our technical manuals (incorrect electric connection, operation of a boiler when empty, etc.)
- All alterations, transformations or work carried out by unqualified staff or contractors, or using spare parts that are not original or not approved by the manufacturer.

The installation, assembly, dismantling costs and the consequences of the appliance not being operational due to work under the warranty are not borne by GODIN S.A.

As a result, GODIN S.A. cannot be held liable for material damage or personal injury resulting from an installation that is not compliant with applicable legislation and regulations, that is not compliant with the recommendations in the appliance manual (for example, failure to connect to the earth, bad chimney stack effect, etc.).

For the purposes of the continuous improvement of our production, we reserve the right to modify our appliances without notice. All the announced sizes and specifications are subject to change due to technical imperatives.

If you make a claim under the warranty, you must be able to provide a copy of the invoice and the warranty card featuring the appliance references, the dealer's stamp, the date the appliance was commissioned. Contact your dealer if you have a complaint.

Boilers - Cookers - Heating appliances - Cast iron objects
GODIN S.A. – 532, rue Sadi Carnot – 02120 GUISE – France

Please note that the Post-Sales service must be provided by the dealer or the installer who are in charge on site as we do not deal directly with private individuals. Any private individuals who contact us directly will be automatically redirected to their dealer, and must contact them for all Post-Sales or sales issues.