



Solo

G20/G25



Instructions for installation (GB / IE)



Please retain this document carefully



UK

English

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Preface

DRU, a manufacturer of gas heating appliances, develops and produces products that comply with the highest quality, performance and safety requirements.

This guarantees that the user will be able to enjoy using his product for many years to come.

This appliance has a CE marking, which means that it complies with the essential requirements of the European gas appliance directive.

As an installer, you must be competent in the field of atmospheric gas heating.

Two manuals are supplied with the appliance: the instructions for installation and the operating instructions.

The instructions for installation will provide you with the information you need to install the appliance in such a way that it will operate properly and safely.

This manual discusses the installation of the appliance and the regulations that apply to the installation. In addition, you will find technical data for the appliance and information on maintenance, any malfunctions that might occur and their possible causes.

Please carefully read and use these instructions for installation.

The following symbols are used in the manual to indicate important information:



Work to be performed



Suggestions and recommendations



You will need these instructions to prevent problems that might occur during installation and/or use.



Caution

You need these instructions to prevent fire, personal injury or other serious damages.

After delivery, you should give the operating instructions and the instructions for installation to the user.

1. Introduction

Solo is a freestanding atmospheric gas heating appliance.

This version of Solo is suitable for natural gas.

Solo is a closed appliance. A closed appliance does not extract the combustion air from the living environment, but from outside. This is done through a combined flue gas discharge system / combustion air supply system. In this concentric system the outer pipe serves as air supply and the inner pipe as flue gas discharge.

This system can be installed through the wall, or through the roof.

The concentric system can be supplied in the colour of the appliance.

The appliance is supplied with a battery powered wireless remote control.

2. CE declaration

The undersigned, representative of :

Manufacturer: DRU Haardkachels B.V.
Postbus 37, NL-6660 AA Elst
Industrieweg Oost 11, NL-6662 NE Elst

hereby declares that the design and construction of DRU' atmospheric gas heating appliance comply with the essential requirements of the Gas Appliance Directive.

Product:	<i>atmospheric gas heating appliance</i>
Type:	<i>Solo</i>
Applicable EEC directives:	<i>90/396/EEC</i>
Applied harmonized standards:	<i>NEN-EN-613</i> <i>NEN-EN-613/A1</i>

Internal measures by the company guarantee that appliances produced in series comply with the essential requirements of the prevailing EEC directives and the standards derived from them.

This declaration will lose its validity if adjustments are made to the appliance, without prior written permission by DRU.

On behalf of DRU Haardkachels B.V.
M.J.M Gelten
General director
Postbus 1021, 6920 BA Duiven
Ratio 8, 6921 RW Duiven

3. SAFETY



Caution

3.1 General

- **Carefully read this chapter on safety, before you start performing installation or maintenance work;**
- Please observe the general regulations and the precautions/safety instructions in this manual.

3.2 Regulations

Please install the appliance in accordance with the applicable national, local and constructional (installation) regulations.

In the Netherlands the "Bouwbesluit" applies, amongst other regulations.

3.3 Precautions / safety instructions during installation

Carefully observe the following precautions/safety regulations:

- ▶ **you should only install and maintain the appliance if you are a competent installer in the field of atmospheric gas heating;**
- ▶ **do not make any changes to the appliance;**
- ▶ **only use the flue gas discharge / combustion air supply system supplied by DRU;**
- ▶ **place the appliance at a distance of at least 50 mm from the back wall;**
- ▶ **do not cover the appliance and the discharge material and/or do not wrap them in an insulation blanket or any other material;**
- ▶ **always place the appliance and/or the discharge pipes at a minimum distance of 500 mm from combustible objects or materials;**
- ▶ **only ever use the supplied wood set;**
- ▶ **place the wood set exactly as described;**
- ▶ **make sure the pilot burner and the space around it are kept free;**

- ▣▣▣▣ avoid dirt in gas pipes and connections;
- ▣▣▣▣ check the connections for gastightness before using the appliance;
- ▣▣▣▣ do not ignite the appliance until it is fully installed;
- ▣▣▣▣ replace torn or broken panes.

4. Instructions

Observe the following items during installation in order to guarantee a proper and safe operation of the appliance:

- ▣▣▣▣ avoid that the ignition cable runs over and/or alongside metal parts, in order to prevent weakening of the spark;
- ▣▣▣▣ avoid damaging the pane during removal/placing;
- ▣▣▣▣ clean the pane before you use the appliance, in order to prevent dirt from burning in the glass.

5. Removing the packaging

Note the following items when removing the packaging:

- ▣▣▣▣ Check the appliance for damages during transport.
- ▣▣▣▣ If necessary, contact your dealer.

After removing the pane, you can take the box containing parts and the wood set from the combustion room.

!Caution Avoid damaging the pane during removal/placing.

- ▣▣▣▣ Remove the pane as described in section 6.10.1;
 - ▣▣▣▣ Remove the box containing parts and the wood set from the combustion room.
- In Appendix 1 / Table 4 you can see which parts you should have after removing the packaging.
- ▣▣▣▣ Contact your dealer if you do not have all the parts after you finished removing the packaging;
 - ▣▣▣▣ Dispose packaging in accordance with local regulations.

6. Installation

Read this manual carefully to ensure a proper and safe operation of the appliance.

!Caution Install the appliance in the order described in this chapter.

6.1 Regulations

- Observe the applicable (installation) regulations.
- Observe the regulations/instructions in this manual.

6.2 Type of gas

The type plate indicates for which type of gas, gas pressure and for which country this appliance is intended. The type plate can be found at the left side on the back wall of the space at the bottom of the appliance.

- ▣▣▣▣ Check whether the appliance is suitable for the type of gas and the gas pressure used on site.

!Caution By default, the appliance is set up for gas type G25. If you connect the appliance to gas type G20, you should change the primary aeration. For more details, see Table 2 and section 6.8.2

6.3 Gas connection

Place a gas tap in the gas connection, close to the appliance.

 **Caution** Avoid dirt in the gas pipe and in the connections.

The following requirements apply to the gas connection:

- use a gas pipe with the correct dimensions, so that no pressure loss can occur;
- the gas tap should have the CE marking;
- you should always be able to reach the gas tap.

6.4 Reconstructing from top connection appliance to back connection appliance

By default, the appliance is supplied with a top connection (see Fig. 1) for the flue gas discharge./ combustion air supply system. The top connection can be reconstructed to a back connection (see Fig. 2).

The back connection is required if the appliance is directly connected to a wall duct. In all other cases, the top connection will be used.

Proceed as follows, when reconstructing to a back connection:

- ▮ Take aluminium bend C from the air inlet stub; see Fig. 1;
- ▮ Unscrew the 8 parkers A from the air inlet stub; see Fig. 1;
- ▮ Turn air inlet stub B 90 degrees, as indicated in Fig. 2;
- ▮ Fix the air inlet stub again by using the 8 parkers;
- ▮ Place back the aluminium bend, as indicated.

!Caution The upper plate will only be placed when the appliance is on its intended location, as described below in section 6.5.

6.5 Placing the appliance

Place the appliance as follows:

- !Caution**
 - Always place the appliance at a minimum distance of 500 mm from combustible objects and/or materials.
 - Do not make any changes to the appliance;
 - Place the appliance at a distance of at least 50 mm from the back wall;
 - Do not cover the appliance and the discharge material and/or do not wrap it in an insulation blanket or any other material.

- ▮ Determine the location of the appliance; the dimensions can be found in Fig. 3.
- ▮ Provide a gas connection at the location. For details, see section 6.3.
- ▮ Make a duct for the flue gas discharge/combustion air supply system with the following diameters. For details, see section 6.6.
 - Ø160 mm for a wall duct through incombustible material;
 - Ø 250 mm for a wall duct through combustible material;
 - Ø160 mm for a roof duct through incombustible material;
 - Ø 250 mm for a roof duct through combustible material.

- ▮ Place the appliance on its intended location.

The top plate of the appliance is supplied separately. The opening should be attached to the back by using the back connection. When using the top connection, the opening will be placed on the top.

- !Tip** Avoid damaging the top plate by immediately placing it in the required position.

- ▮ Place the top plate (see Fig. 1 and 2).

6.6 Flue gas discharge / combustion air supply system

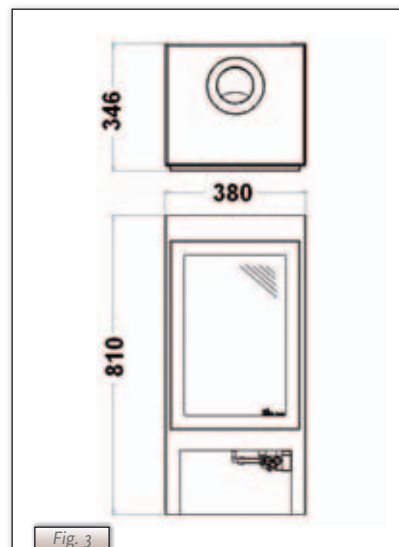
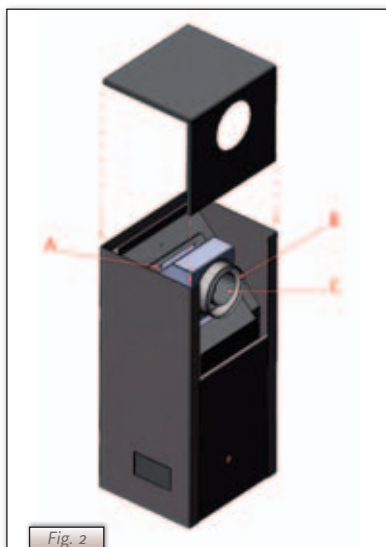
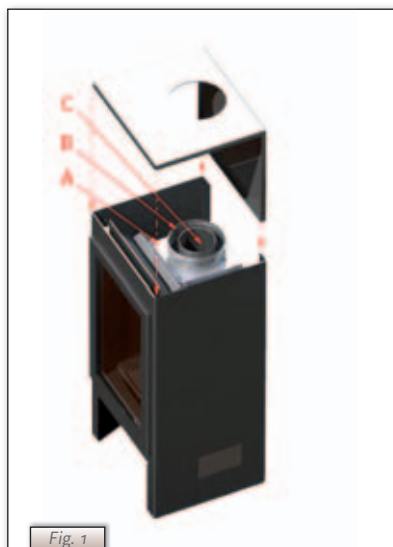
6.6.1 General

The appliance is of the C11/C31 type.

The appliance is connected to a combined flue gas discharge/combustion air supply system, hereafter referred to as the concentric system.

The passage to the outside can be made with a wall duct (see section 6.6.2) or with a roof duct (see section 6.6.3).

If necessary, you can also use an existing discharge channel (see section 6.6.4).



- !Caution**
- Only use the concentric system supplied by DRU (Ø100 / Ø150 mm). This system was tested in combination with the appliance.
 - DRU cannot guarantee a good and safe operation of other systems and cannot accept liability for them;
 - For connecting to an existing chimney flue you should only use the installation set supplied by DRU;
 - Always place the concentric system at a minimum distance of 500 mm from combustible objects and/or materials;
 - Maintain a distance of at least 50 mm between the concentric system and combustible objects and/or materials.

The concentric system is constructed from (the discharge stump of) the appliance.
If structural circumstances require that the concentric system is placed first, the appliance can later be connected with a telescopic pipe piece.

- !Tip** DRU does not recommend placing the telescopic piece, because this visible pipe piece cannot be supplied in colour and does not really combine well with the appliance.

6.6.2 Application with wall duct

There are 2 methods of connecting the appliance to the wall duct:

1. directly onto the wall duct; see *Fig. 4a*. In this situation the appliance should be reconstructed to a back connection (see section 6.4);
2. indirectly onto the wall duct; see *Fig. 4b*. Under these circumstances, the top connection of the appliance is used.

When placing the wall duct, you must take the following aspects into account:

- !Caution**
- Use heat-resistant isolation material when passing through combustible material;
 - The rosette (mounting inner plate) of the wall duct is too small to seal the Ø 250 mm opening when passing through combustible material. That is why you should first apply a sufficiently large heat-resistant intermediate plate to the wall. Then, the rosette is mounted on the intermediate plate.

- !Caution** Some heat-resistant isolation materials contain volatile components that will spread an unpleasant smell for a prolonged time; these are not suitable.

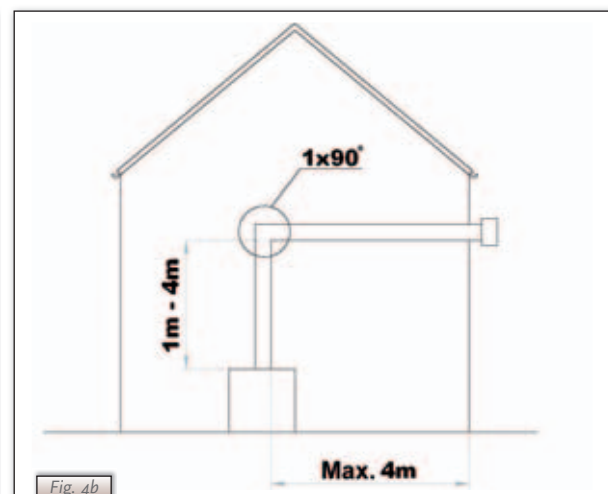
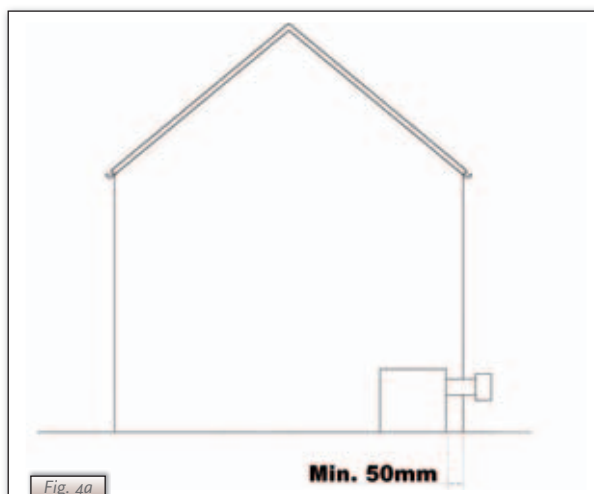
Below you will find the conditions for constructing and placing in more detail.

6.6.2.1 Direct connection to the wall duct

If the appliance is directly connected to the duct wall (see *Fig. 4a*), it will be necessary to change the primary aeration of the burner. Table 2 contains the conditions for adjusting, and section 6.8, Adjusting the appliance, describes how the primary aeration can be adjusted. The baffle will not be placed.

Proceed as follows, when placing the wall duct:

- !Caution** The top plate of the appliance is placed with the opening to the back.
- ▶ Determine the length of the duct;
 - ▶ Make sure the wall duct has the right dimensions.
- !Caution**
- Make sure that the right insertion length is maintained;
 - Place the wall duct with the groove/folded seam at the top;
- ▶ Mount the rosette (mounting inner plate); if necessary, on a heat resistant intermediate plate when passing through combustible material;
 - ▶ Attach the wall duct from the outside with four screws in their respective holes.



6.6.2.2 Indirect connection to the wall duct

The concentric system has to comply with the following conditions (see Fig. 4b):

- First, a concentric pipe of at least 1 meter should be connected vertically to the appliance;
- The total vertical pipe length can have a maximum of 4 meters;
- After the vertical part a bend of 90° is connected;
- The total horizontal pipe length can have a maximum of 4 meters (wall duct excluded).

Under these conditions, the restriction will not be placed.

!Caution The top plate of the appliance is placed with the opening on the top.

- ▣▣▣▣ **Build the system up from (the connection stump of) the appliance;**
- ▣▣▣▣ **Connect the (lacquered) concentric pipe pieces and the (lacquered) bend;**
- ▣▣▣▣ **On each connection, apply a (lacquered) clip binding with silicon sealing ring;**
- ▣▣▣▣ **Use a parker to fix the clip binding to the pipe on locations that are unreachable after installation;**
- ▣▣▣▣ **Apply sufficient clamps, so that the weight of the pipes does not only rest on the appliance;**
- ▣▣▣▣ **Determine the remaining length of the wall duct;**
- ▣▣▣▣ **Make sure the wall duct has the right dimensions.**

!Caution - For G20, the primary aeration burner must be adjusted.

- Make sure that the right insertion length is maintained;
- Place the wall duct with the groove/folded seam at the top;
- Make sure the horizontal concentric pipe pieces are sloping towards the wall duct, in order to prevent rain water from entering.

▣▣▣▣ **Mount the rosette (mounting inner plate); if necessary, on a heat resistant intermediate plate when passing through combustible material**

▣▣▣▣ **Attach the wall duct from the outside with four screws in their respective holes.**

6.6.3 Application with roof duct

6.6.3.1 Construction of concentric system with roof duct

The concentric system with roof duct has to comply with the following conditions:

- The construction of the chosen system has to be allowed. (See the procedure described below);
- First, a concentric pipe of at least 1 meter should be connected vertically to the appliance.

Depending on the construction, the appliance will be adjusted by means of the baffle.

In the following procedure you can see how the allowability of a concentric system can be determined and which settings are needed.

▣▣▣▣ **Determine the following data:**

- 1) The number of bends required (no distinction is made between 45° and 90° bends);
- 2) The total number of meters of horizontal pipe length;
- 3) The total number of meters of vertical and/or sloping pipe length.

With these data and Table 1 you will be able to determine whether the concentric system is allowed. In Table 2 you can see which setting the appliance needs.

Proceed as follows:

▣▣▣▣ **In the first 2 columns of Table 1 look for the number of bends required and the total horizontal pipe length;**

▣▣▣▣ **In the 3rd column of Table 1 look for the total vertical and/or sloping pipe length.**

If you end up in a box with the letter A, B, C, D or E, the concentric system chosen by you is allowed.

▣▣▣▣ **Use Table 2 to determine which conditions apply for the baffle (for adjusting, see section 6.8).**

Examples

To clarify, we will give 2 examples to determine the allowability of a concentric system and the conditions for setting the appliance.

In Table 1 the route to be followed is indicated by arrows. The result is indicated with a circle.

Example 1

- 1) 2 bends
- 2) 3 meters horizontal
- 3) 8 meters vertical/sloping
- Construction of this concentric system is allowed.
- Situation C applies for setting the appliance

Example 2

- 1) 3 bends
- 2) 4 meters horizontal
- 3) 9 meters vertical/sloping
- Construction of this concentric system is not allowed.

Table 1: Conditions for setting appliance with roof duct

G20/25	Total number of meters horizontal pipe length	Total number of meters vertical and/or sloping pipe length											
		1	2	3	4	5	6	7	↓8	↓9	10	11	12
no bends	0	B	B	C	C	D	D	E	E	E	E	E	E
2 bends	0	A	A	B	B	C	C	D	D	E	E	E	E
	1		A	A	B	B	C	C	D	D	E	E	
	2			A	A	B	C	C	C	D	D		
	→	3				A	A	B	B	C	C		
	4						A	A	B	B			
	5												
3 bends	0	A	A	A	B	B	C	C	D	D	E	E	E
	1		A	A	A	B	B	C	C	D	D	E	
	2			A	A	A	B	B	C	C	D		
	3				A	A	A	B	B	C			
	→	4					A	A	A	B			
	5												
4 bends	0	A	A	A	A	B	B	C	C	D	D	E	E
	1		A	A	A	A	B	B	C	C	D	D	
	2			A	A	A	A	B	B	C	C		
	3				A	A	A	A	B	B			
	4					A	A	A	A				
	5												
5 bends	-												

■ = construction is not allowed

Table 2: Conditions for setting the appliance

Wall duct	Primary hole throttle ring		Baffle	Distance restriction (mm)
Situation	G25	G20		
Only wall duct (direct connection)	Ø6	Ø9	NO	OPEN
1 - 4 m vertical + bend 90° + 0 - 4 m horizontal + wall duct (indirect connection)	Ø5	Ø7	NO	OPEN
Roof duct	Primary hole throttle ring		Baffle	Distance restriction (mm)
Situation	G25	G20		
A	Ø5	Ø7	NO	OPEN
B	Ø5	Ø7	YES	35
C	Ø5	Ø7	YES	31
D	Ø5	Ø7	YES	29
E	Ø5	Ø7	YES	22

6.6.3.2 Placing concentric system with roof duct

The roof duct can end in a sloping and a flat roof.

The roof duct can be supplied with an adhesive plate for a flat roof or with a universally adjustable tile for a sloping roof.

Place the concentric system as follows:

- ➔ **Build the system up from (the connection stump of) the appliance.**



- !Caution** - Maintain a distance of at least 50 mm between the outside of the concentric system and the walls and/or the ceiling;
- Use heat-resistant isolation material when passing through combustible material.

!Caution Some heat-resistant isolation materials contain volatile components that will spread an unpleasant smell for a prolonged time; these are not suitable.

- ➔ Connect the (lacquered) concentric pipe pieces and, if required, the (lacquered) bends;
- ➔ On each connection, apply a (lacquered) clip binding with silicon sealing ring;
- ➔ Use a parker to fix the clip binding to the pipe on locations that are unreachable after installation;
- ➔ Apply sufficient clamps, so that the weight of the pipes does not only rest on the appliance;
- ➔ Determine the remaining length of the roof duct;
- ➔ Make sure the roof duct has the right dimensions.

!Caution Make sure that the right insertion length is maintained.

- ➔ Connect the roof duct to the concentric pipes.

- !Caution** - Make sure that the universal tile fits well with the surrounding tiles;
- Make sure that the adhesive plate fits well onto the flat roof.

6.6.4 Connection of existing chimney flue

It is possible to connect the appliance to an existing channel.

A flexible SS pipe is placed in the chimney for discharging flue gases. The surrounding space is used to supply combustion air.

The following requirements apply when connecting to an existing chimney flue:

- only allowed when used in combination with the special DRU chimney installation set.

The installation regulation is also supplied;

- the dimensions should be at least 150 x 150 mm;
- the vertical length has a maximum of 12 meters;
- the horizontal length has a maximum of 3 meters;
- the existing chimney flue has to be clean;
- the existing chimney flue has to be closed.

For setting the appliance, the same conditions/instructions apply as for the concentric system.

6.7 Connecting gas

Use the following procedure when connecting the gas, see section 6.3, Gas Connection:

- ▣▣▣▣ **If necessary, blow through the gas pipe;**
- ▣▣▣▣ **Connect the gas pipe with gas tap to the gas control block.**
- !Caution - **The gas control block is located in the space at the bottom of the appliance;**
- **Do not turn the gas tap when connecting the gas pipe.**
- ▣▣▣▣ **Bleed the gas pipe.**

6.8 Adjusting the appliance

The appliance has to be set in such a way that it works correctly in combination with the discharge system.

For that purpose the baffle is placed and/or the primary aeration is changed; for conditions see section 6.6.2, for application with wall duct and section 6.6.3 for application with roof duct.

6.8.1 Baffle

The baffle is supplied separately.

Proceed as follows when placing the baffle (see Fig. 5):

- ▣▣▣▣ **If necessary, remove the pane as described in section 6.10.1;**
- ▣▣▣▣ **Remove the baffle plate by unscrewing the socket cap screw;**
- ▣▣▣▣ **Place the baffle (R);**
- ▣▣▣▣ **Use the template supplied to set the distance of the baffle (see Fig. 6) as follows:**
 - **A distance of 22 mm means that the baffle is closed to a maximum level;**
 - **A distance of 29, 31 and 35 mm is set by using a template.**
- ▣▣▣▣ **Fix the baffle by using the socket cap screw (S);**
- ▣▣▣▣ **Place back the baffle plate.**

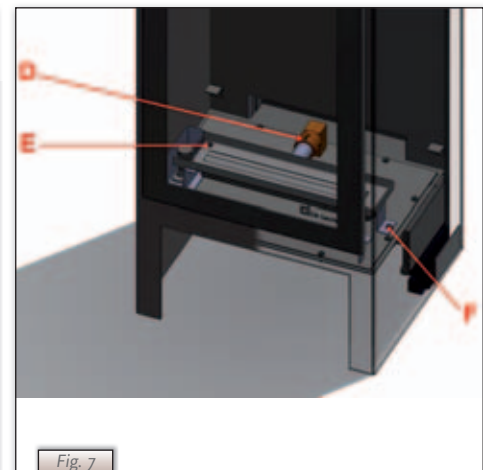
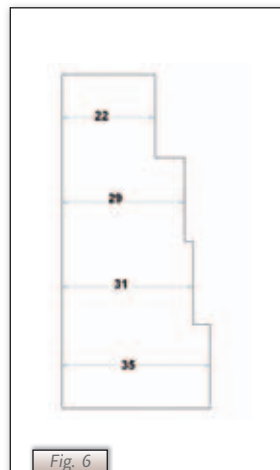
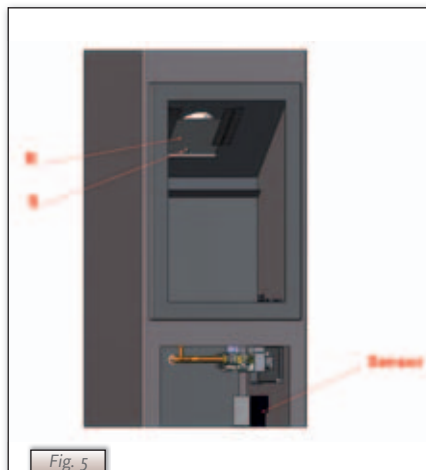
6.8.2 Primary aeration of the burner

When the tray surrounding the burner is removed, you can see the throttle ring that is attached to the pipe fixed to the burner (see Fig. 7).

The primary aeration of the burner can be adjusted by rotating the throttle ring.

Below you will find the steps you must follow:

- ▣▣▣▣ **If necessary, remove the pane (see section 6.10.1);**
- ▣▣▣▣ **Remove the tray surrounding the burner;**
- ▣▣▣▣ **Unscrew the two parkers fixing the burner (see Fig. 7, E and F);**
- ▣▣▣▣ **Remove the burner;**
- ▣▣▣▣ **Unscrew the cap screw fixing the throttle ring (see Fig. 7, D);**
- ▣▣▣▣ **Rotate the throttle ring until the hole with the correct diameter (5, 6, 7 or 9 mm) is right in front of the 15 mm hole in the pipe fixed to the burner.**
- !Tip - **The hole with the 15 mm diameter is at the bottom of the pipe to the burner.**
- ▣▣▣▣ **Fix the throttle ring again by using the cap screw;**
- ▣▣▣▣ **Fix the burner by using screws E and F;**
- ▣▣▣▣ **Place back the tray surrounding the burner.**





6.9 Placing wood set

The appliance is supplied with a wood set.

! Caution Strictly observe the following instructions to prevent unsafe situations:

- only ever use the supplied wood set;
- place the wood set exactly as described;
- make sure the pilot burner and the space around it are kept free from objects (see Fig. 8);
- make sure that the slot between the burner tray and the tray surrounding the burner is kept free from objects.

6.9.1 Wood set

The wood set consists of lava rocks (see Fig. 9), chips (see Fig. 10) and a number of blocks.

- ▶▶▶▶▶ Fill the burner tray with lava rocks; equally spread the lava rocks (see Fig. 11);
 - ▶▶▶▶▶ Fill the tray surrounding the burner with chips; equally spread the chips on the tray surrounding the burner, making sure the slots are kept as free as possible;
 - ▶▶▶▶▶ Identify blocks A up to F by using Fig. 12.
- ! Caution** No chips on the burner.
- ! Tip** Use the burn stains on the blocks for identification.
- ▶▶▶▶▶ First place blocks A and B (see Fig. 13);
 - ▶▶▶▶▶ Then place blocks C and D; see Fig. 14);
 - ▶▶▶▶▶ Finally place block E; (see Fig. 15).

6.10 Pane

After placing the wood set you can place the pane as described below.

! Caution Avoid/remove fingerprints on the pane, as they will burn into the glass.



Fig. 12

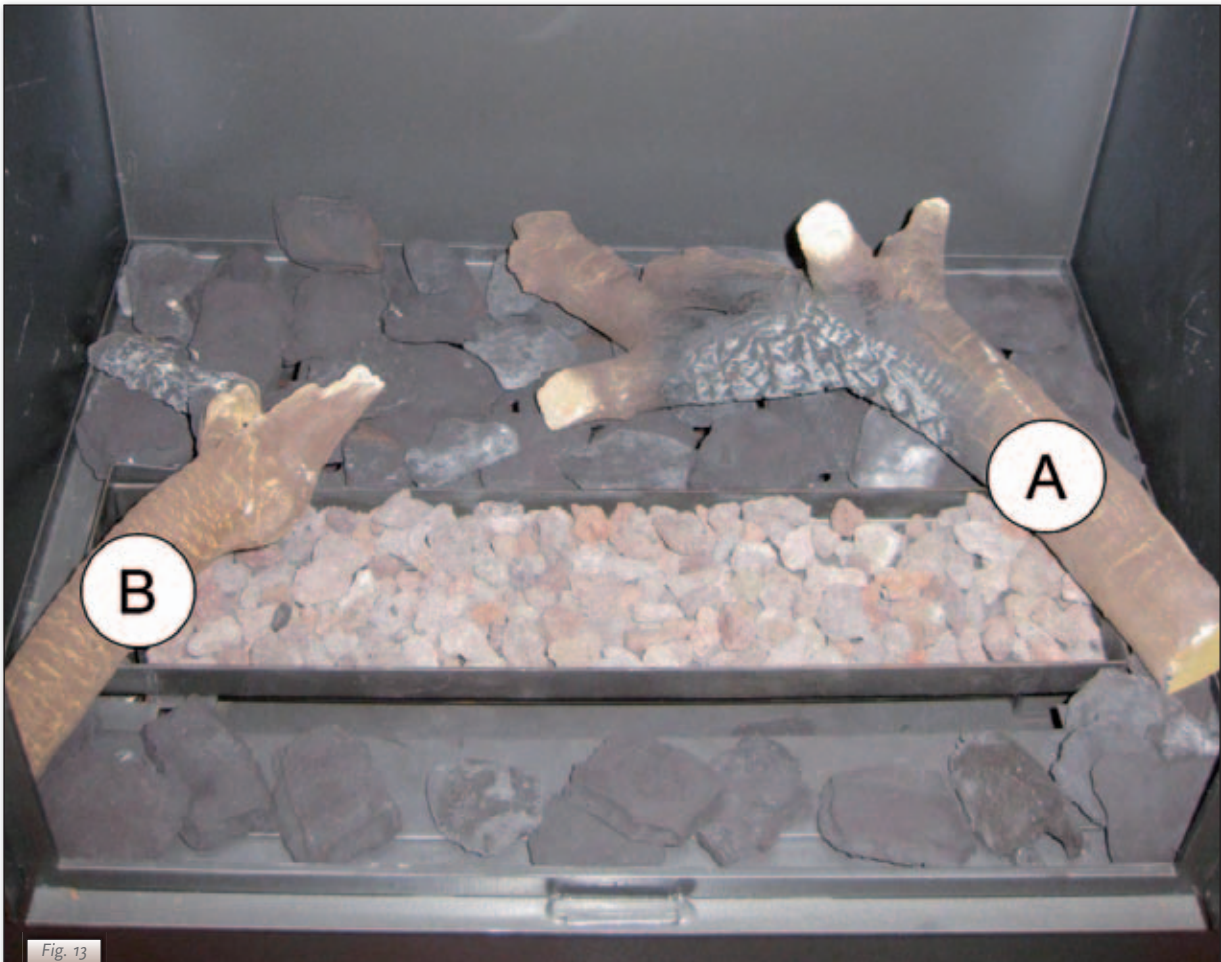
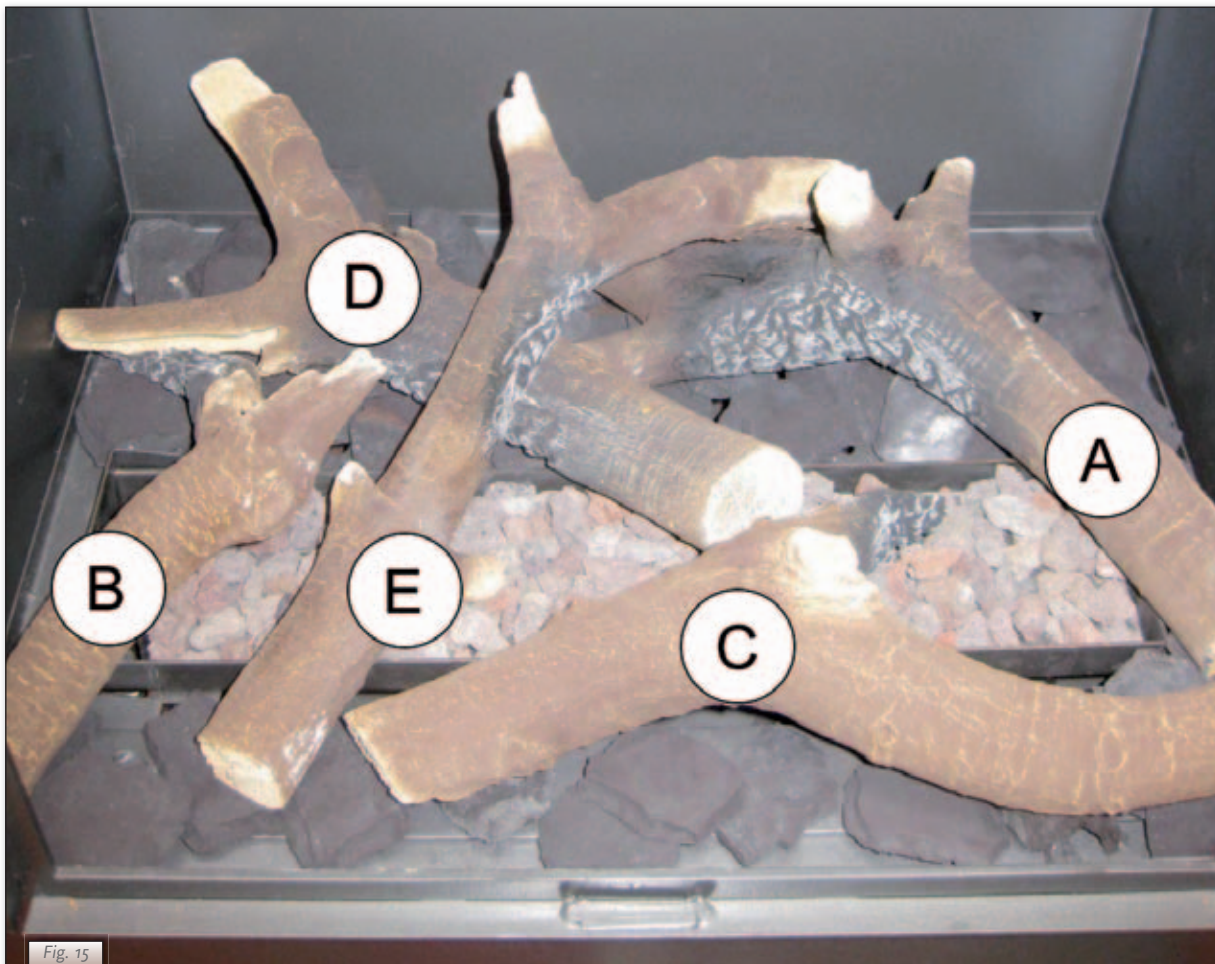
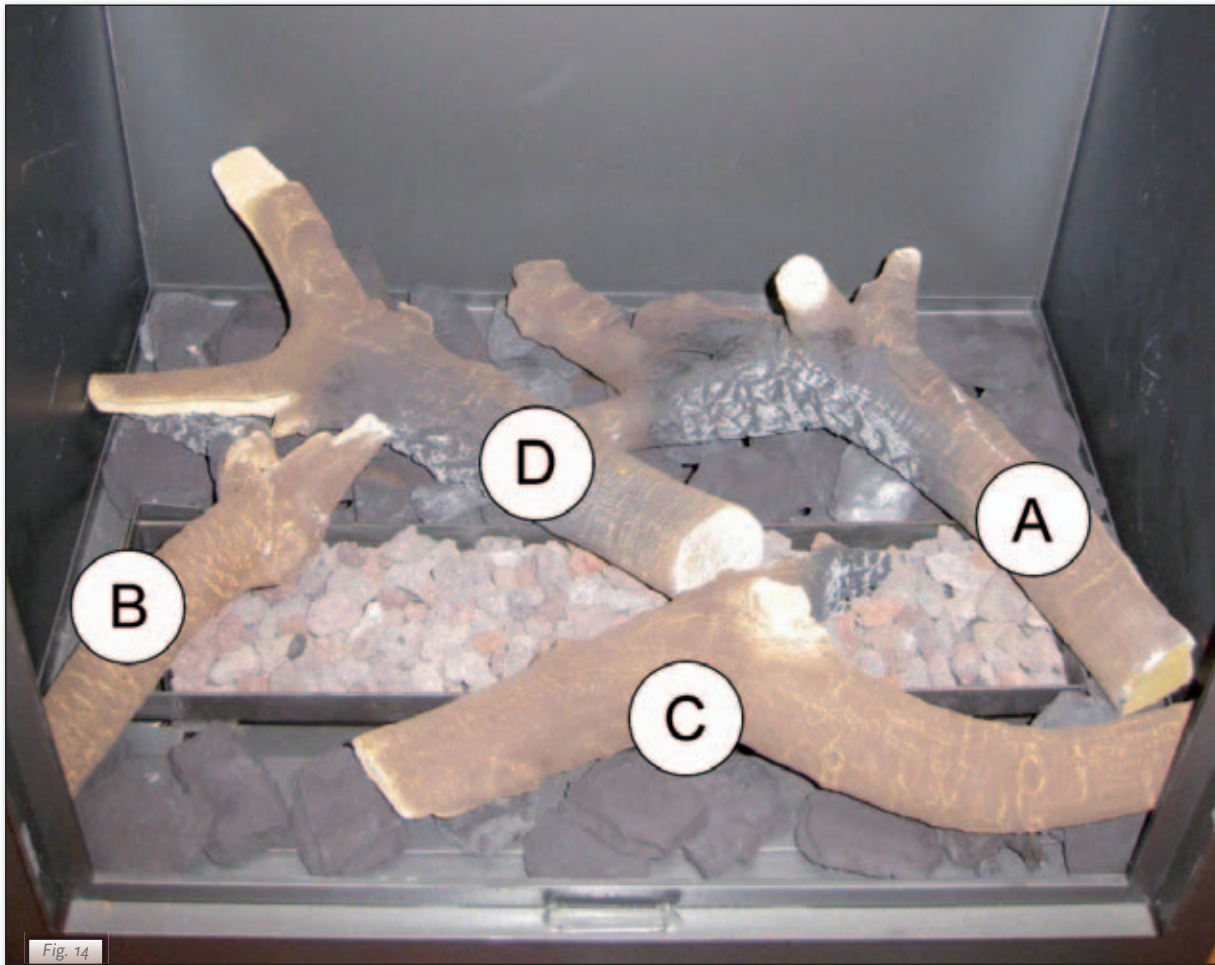


Fig. 13



6.10.1 Removing the pane

Proceed as follows, to remove the pane:

- ▣▣▣▣▣ **Push the frame up at the bottom;**
- ▣▣▣▣▣ **Tip the top side to the front;**
- ▣▣▣▣▣ **Remove the frame;**
- ▣▣▣▣▣ **Remove the 4 pane strips from the pane using a screwdriver (see Fig. 16 and 17);**
- ▣▣▣▣▣ **Remove the pane.**

6.10.2 Mounting the pane

Mounting the pane will take place in reverse order of the removal procedure described above.

- !Tip** First apply the bottom strip, then place the pane, and then apply the other strips.

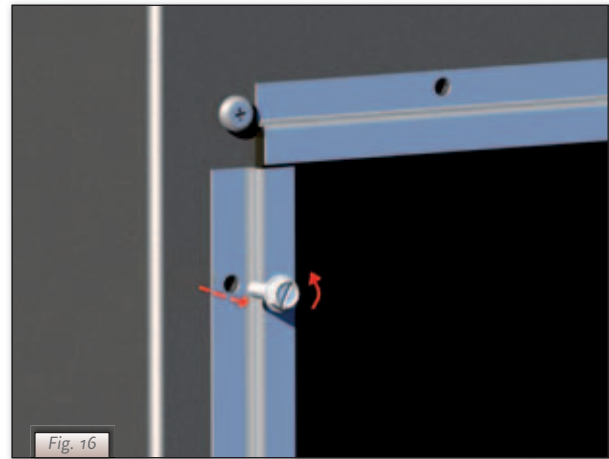


Fig. 16

7. Operation

See the operating instructions, chapter 4, Operation, for the operation of the appliance.

7.1 Wireless remote control

The wireless remote control consists of a remote control and a receiver.

Below you can read how you should connect the receiver; the operation of the wireless remote control will be discussed in the operating instructions, chapter 4, Operation.

7.1.1 Connecting the receiver

The receiver is placed in the space at the bottom of the appliance.

The gas control block is also placed in this space.

The receiver should be connected to the appliance, before the batteries are installed.

Proceed as follows:

- ▣▣▣▣▣ **Connect the connecting cable of the receiver to the gas control block (see Fig. 17).**
- !Tip** The plugs have different sizes that correspond with the connectors.
- ▣▣▣▣▣ **Place the batteries as described below in section 7.1.2;**
- ▣▣▣▣▣ **Place the receiver in its holder, with the sensor to the front, see Fig. 5.**

!Caution Do not place the ignition cable over and/or along metal parts: this will weaken the spark.

7.1.2 Placing / replacing the batteries

Follow the procedure below when placing / replacing the batteries:

- ▣▣▣▣▣ **Pick up the receiver;**
- ▣▣▣▣▣ **Slide the cover off;**
- ▣▣▣▣▣ **Place or remove the 4 penlite (AA type) batteries.**

!Caution

- Avoid a short circuit between the batteries and metal objects/parts;
- Observe the "+" and "-" poles of the batteries and the holder;
- Use alkaline batteries.

- ▣▣▣▣▣ **Slide back the cover.**
- ▣▣▣▣▣ **Place the receiver in the holder with the sensor to the front.**

!Caution Batteries are regarded as "small chemical waste" and may therefore not be disposed with the household rubbish.

8. Final check

In order to check whether the appliance is working properly and safely, you must perform the following checks before the appliance is used.



Caution
!Caution

8.1 Gastightness

All connections must be gastight.

The gas control block can be subjected to a maximum pressure of 50 mbar.

Check the connections for gastightness.

8.2 Gas pressure / pre-pressure

The burner pressure is set at the factory; see type plate. It is not necessary to check the burner pressure.

The pre-pressure in house installations, however, should be checked, as they can vary.

Check the pre-pressure; see *Fig. 18* for the measuring nipple on the gas control block;

Contact the gas company if the pre-pressure is not correct.

8.3 Ignition pilot and main burner

For igniting the pilot and main burner, see the operating instructions, chapter 4, Operation.



Caution

Always wait 5 minutes after the pilot flame has gone out, before you re-ignite the appliance.

8.3.1 Pilot flame

Check the ignition of the pilot flame.

- the pilot flame burner should start at the first attempt.

If the pilot flame does not burn:

Check if the ignition sparks:

a) If not, the ignition cable is probably not lying free from metal parts;

b) If it does, there is probably still air in the pipe.

Bleed the pipe and/or;

Lay the ignition cable free from metal parts.

8.3.2 Main burner

The main burner is ignited with button B on the gas control block. Button B can be operated by the remote control and by hand, see the operating instructions, chapter 4, Operation.




Caution

The burner should ignite smoothly and should not pop as a result of delayed ignition.

Check the function of the main burner from the pilot flame position:

- after opening the gas valve, the main burner should burn within a few seconds.

If the main burner does not burn:

Check if button A on the gas control block is in the position ;

Check if the space surrounding the pilot flame is free from objects;

Check the placement of the wood set;

If necessary, correct the abovementioned failures;

Test the main burner 5x for a good operation.

8.4 Flame image

The flame image can only really be assessed when the appliance has been burning for several hours. Volatile components from paint, materials, etc., which evaporate in the first hours, will affect the flame image.

Check the flame image.

If the flame image is not acceptable, this can be due to:

- the evaporation of volatile substances;

- incorrect placement of the wood set.

If necessary, improve the placement of the wood set.

9. Maintenance

Once a year the appliance should be checked, cleaned and, if necessary, repaired by a competent installer in the field of atmospheric gas heating.

Check at least whether the appliance is working properly and safely.



- Caution**
- Close the gas tap when performing maintenance work;
 - Check the gastightness after repair;
 - After replacing the thermocouple, you should first tighten the swivel of the gas control block by hand and then give it another quarter turn with a suitable spanner.

▣▣▣▣ If required, clean the following components:

- the pilot flame burner;
- the combustion room;
- the pane.

- !Caution**
- Remove/place the pane as described in section 6.10;
 - Remove the deposit on the inside of the pane with a damp cloth or a non-abrasive detergent such as copper polish;
 - Avoid/remove fingerprints on the pane, as they will burn into the glass;
 - Replace a torn or broken pane as described in chapter 6.10.



- Caution**
- If necessary, place back the wood set correctly; see section 6.9.
- ▣▣▣▣ Inspect the flue gas discharge / combustion air supply system
- ▣▣▣▣ Perform a check as described in chapter 8

10. Delivery

You must explain to the user how he should operate the appliance. You should instruct her/him for instance on using the appliance for the first time, the operation of the remote control, annual maintenance.



- Caution**
- Tell the user to close the gas tap immediately in case of malfunctions/bad performance and contact the installer in order to prevent dangerous situations;
 - Indicate the location of the gas tap.

▣▣▣▣ Instruct the user about the appliance and the remote control;





▣▣▣▣ When the appliance is started for the first time, point out that:

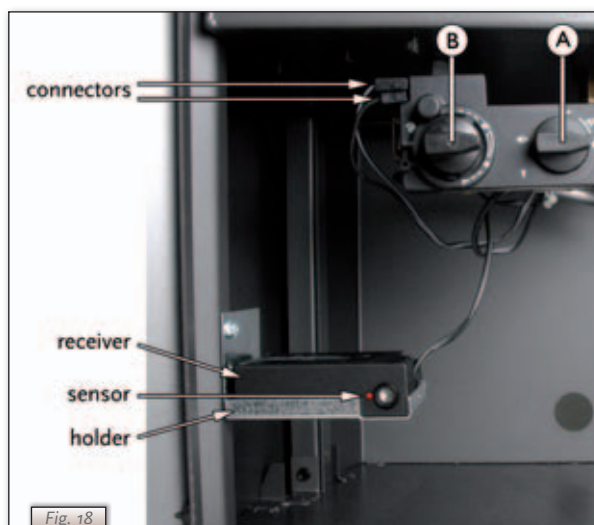
- when the appliance is stoked up for the first time, volatile components evaporate from paint, materials, etc.;
- when evaporating the appliance should preferably be set at its highest level;
- the room should be well ventilated.

▣▣▣▣ Give the operating instructions and instructions for installation to the user (the instructions for installation should be kept near the appliance).

11. Malfunctions

In the following table you will find an overview of malfunctions that might occur, the possible causes and the remedies

Table 3: Diagnosis of malfunctions		
Problem	Possible cause	Remedy
A. No transmission (motor will not run)	<ol style="list-style-type: none"> 1. Empty batteries. 2. Receiver is damaged. 3. Remote control is damaged. 4. Motor cable at gas control block is broken. 	<ol style="list-style-type: none"> 1. Replace batteries. !Caution Avoid short circuit between the batteries and metal parts of the appliances. 2. Replace the receiver. 3. Replace the remote control. 4. Replace the motor cable.
B. No ignition (spark)	<ol style="list-style-type: none"> 1. Ignition cable runs over and/or alongside metal parts. 2. Ignition pen corroded. 	<ol style="list-style-type: none"> 1. Do not place the ignition cable over and/or along metal parts. This will weaken the spark. If necessary, replace the ignition cable. 2. Replace the ignition pen.
C. No pilot flame	<ol style="list-style-type: none"> 1. Air in the pilot flame pipe. 2. No spark at the pilot flame burner. 3. Injector is blocked up 	<ol style="list-style-type: none"> 1. Flush the pipe or start the ignition process several times. 2. Check if the ignition cable is lying free from metal parts. - If necessary, move it away from the metal parts. - If necessary, replace the ignition cable - If necessary, replace the ignition pen 3.1 Clean the injector 3.2 If necessary, replace the injector
D. Pilot flame is burning, but there is no gas flow to the main burner	<ol style="list-style-type: none"> 1. Button A on the gas control block is in position . 2. Button B on the gas control block is on pilot flame position ; see Fig. 18). 3. Pre-pressure of the gas is too low. 4. Damaged magnet valve. 	<ol style="list-style-type: none"> 1. Turn button A to the position  see Fig. 18 2. Increase flame height by turning button B counter-clockwise or by pressing on button  of the remote control. 3. Check the pre-pressure. If necessary, activate energy mode. 4. Replace the gas control block.



Appendix 1 Parts included with the delivery

In the following table you can find the parts that are supplied with the appliance.

Table 4: Parts included with the delivery		
Part	Quantity	Order number
Wood set	1x	806709
Instructions for installation	1x	95900605
Operating instructions	1x	95800402
Setting template for baffle	1x	38714508
Top plate appliance	1x	38724402
Remote control with receiver	1x	806760
9V block battery	1x	923001
Penlite battery (AA type)	4x	923100
Squeeze coupling 15 mm x G3/8"	1x	805481
Baffle	1x	38741444
Socket spanner	1x	790811

Appendix 2 Technical data

In the following table you can find the technical data.

Table 5: Technical Data			
Type		C11/C31	
Type of gas		G25	G20
Burner pressure	mbar	24,2	19,3
Nom. load (Hs)	kW	4,5	4,9
Nom. load (Hi)	kW	4,1	4,4
Nom. output	kW	3,2	4
Consumption	L/h	490	460
Burner injector	mm	Ø 1,6	Ø 1,6
Consumption on low output	L/h	201	184
Low setting injector	mm	Ø 1,1	Ø 1,1
Pilot flame injector	Code	51	51
Efficiency class		2	2

Appendix 3 Parts

Parts can be ordered through your dealer

Notes

A series of horizontal dotted lines for taking notes.

