

Wall-hung Gas boiler

Combi boiler for Heating and DHW

MODEL WITH PROGRAMMER



GBA 24G01 SN 21
GBA 28G01 SN 21

MODEL WITHOUT PROGRAMMER



GBA 24M01 SN 21
GBA 28M01 SN 21



SERVICE DOCUMENTATION



GENERAL REQUIREMENTS

HYDRAULIC GROUP

GAS GROUP

ELECTRONIC CONTROL "MIER"

FLUE PIPE EXHAUST SYSTEM

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TESY
the **comfort** generation

GENERAL REQUIREMENTS OF INSTALLATION

BOILER LOCATION

When specifying the location of the combined boiler You MUST keep the following restrictions:

« The room selected for installation MUST be inside the building and provide sufficient space for the installation, technical maintenance and operation of the boiler. The boiler is not designed for external installation.

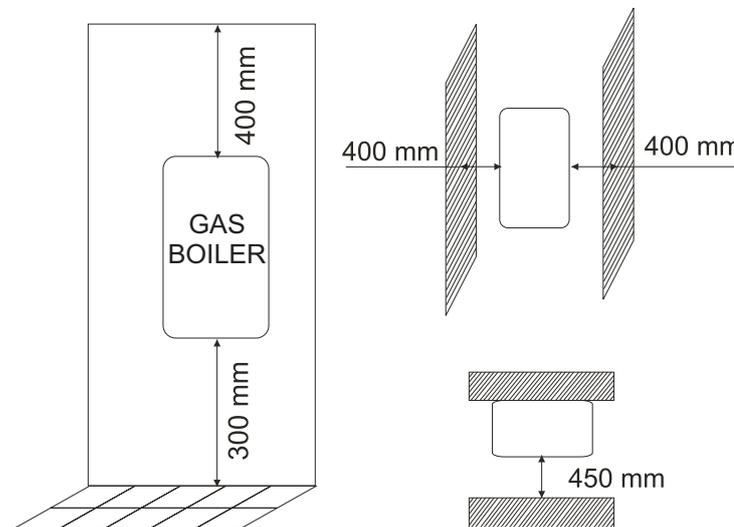
« The room should also allow proper connection of the exhaust pipe. The boiler must be installed on a level vertical wall that could support its weight, as well as the weight of auxiliary equipment for the boiler.

« If the boiler is installed in a building with wooden structure, it must be installed according to the fire safety norms applicable to wooden constructions.

« The boiler can be installed in any premise or inner space, but in compliance with the requirements of the currently valid standards in relation to installation of boilers in rooms or inner spaces containing a shower or a bathtub.

« When the installation is executed in an unusual place, special procedures and requirements will apply.

MINIMUM DISTANCES FOR BOILER INSTALLATION ON WALL

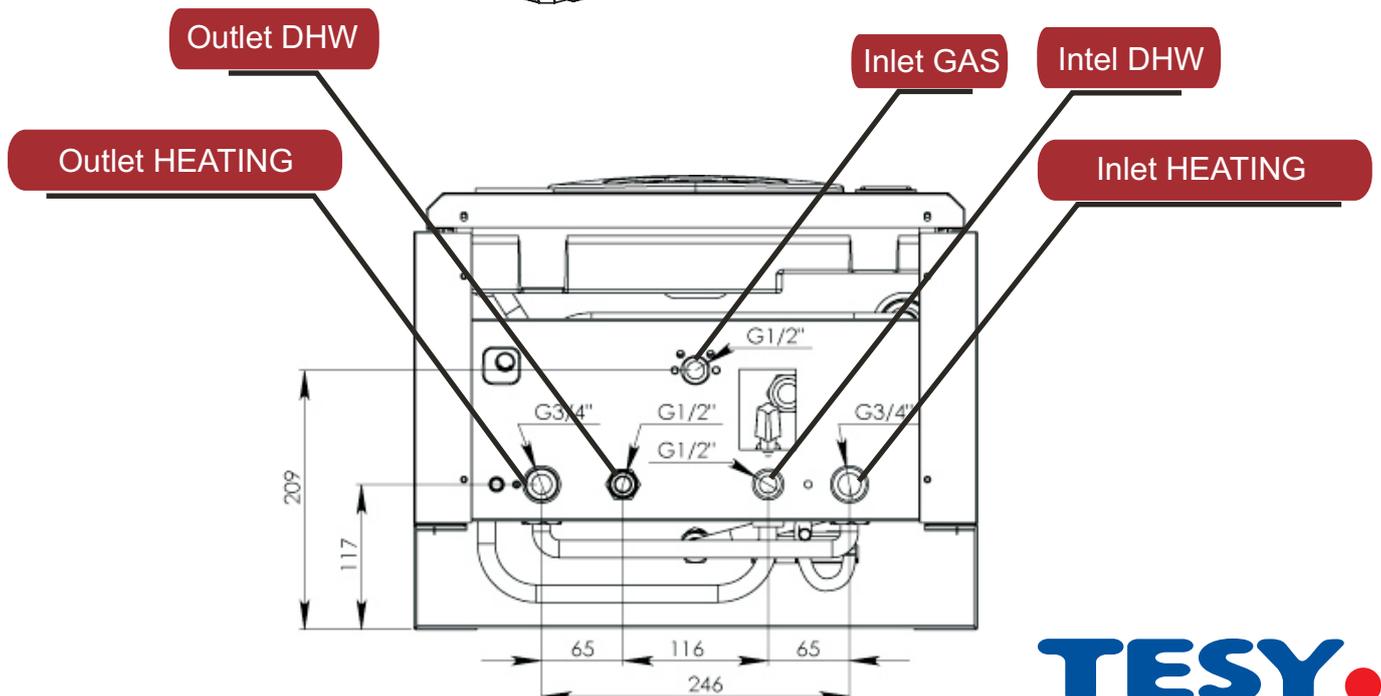
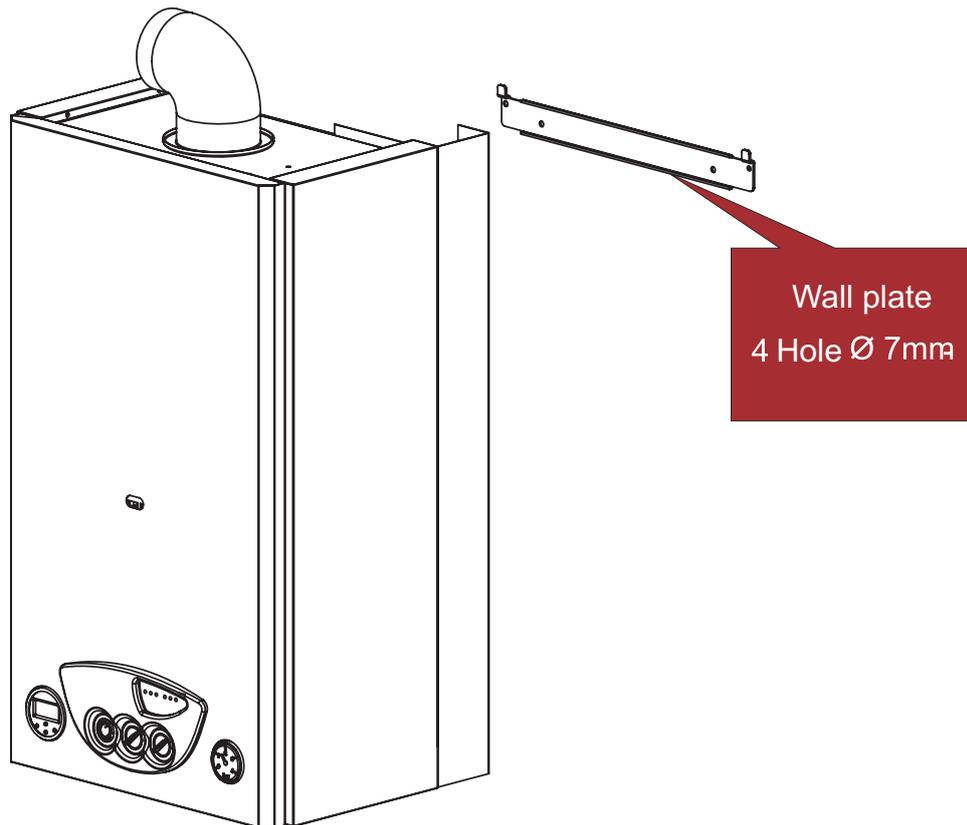


To ensure access to the boiler for servicing operations, it is necessary to keep the below requirements for minimum distances /fig. To up/

To facilitate the installation, the boiler has a pattern, to allow preliminary fixing of the position of connections.

INSTALLATION INSTRUCTIONS

1. Using a level meter, draw a line on the wall, which will be used for the boiler installation
2. The Device can be purchased along with a kit of wall-mounting hooks or wall mounting plate included in the retail package. Position the pattern on the drawn line, by using the level meter mark the points to fix, then bore.
3. Use an anchors bolts, determined by the type of the wall.
4. Position the boiler by hanging it on the anchors or on the hanging plate / according to elements included in the retail package/.
5. Connect the boiler with the pipes for cold and hot water, to the gas pipe and the heating system.



CHIMNEY POSITIONS

The boiler MUST be installed in such a way that the end connecting element /adapter is in open air. It is very important that the adapter position allows the free flow of air through it all the time.

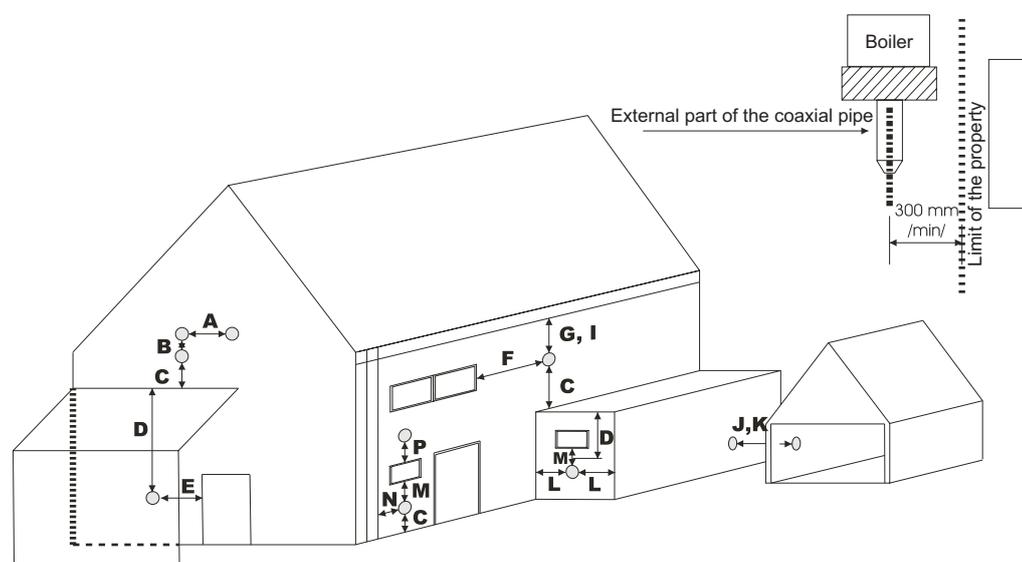
In certain climatic conditions the adapter could release steam. These conditions must be avoided as they could lead to damages.

IMPORTANT REQUIREMENT: There should be correct proportions between the sizes of the end connecting element and each obstacle, opening window or a fan, as displayed on the Figure. It is very important that the practically released by the end connecting element burning products cannot enter again the building or another neighbor building through ventilation openings, windows, doors other air ventilation sources or HVAC systems positive pressure.

If the lowest end of the adapter is installed at a distance less than 2m over a balcony, the ground level or a residential roof accessible to people, this element must be protected by a specially designed for the purpose protector that does not interfere with the device operation.

If the adapter is installed at a distance of 850mm from a plastic or painted rain gutter, or 450mm from a painted cover, an aluminum shield must be mounted on the lower part of the painted section of the gutter, of at least 1000mm length.

The air inlet/smoke flue and the end connecting element of the boiler MUST NOT be installed at a distance smaller 25mm of inflammable materials.



LEGEND:

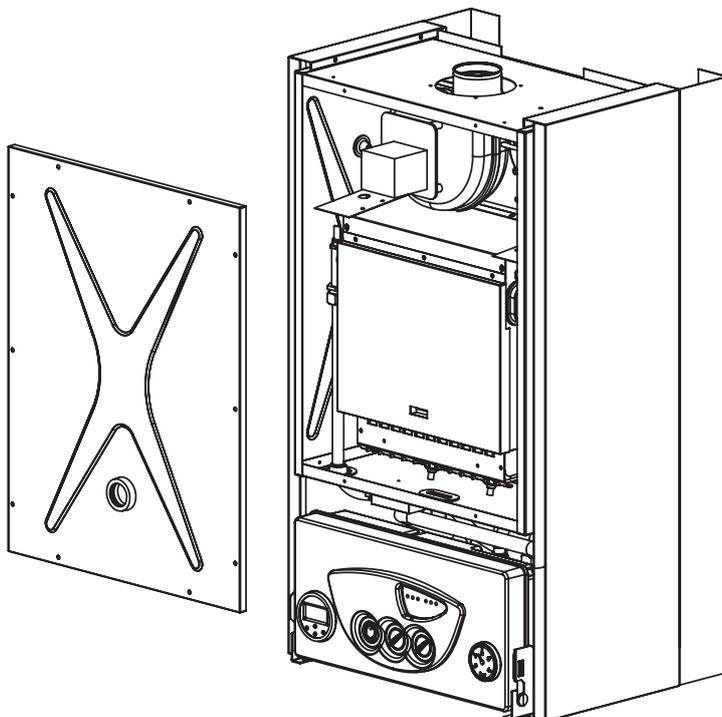
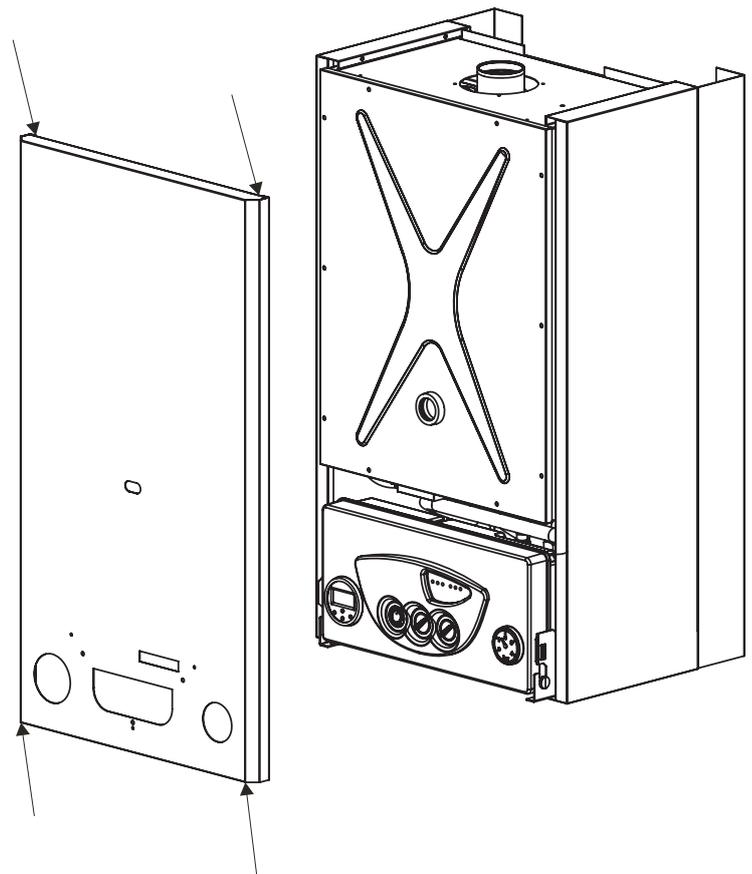
- « "A" Horizontally from an adapter of a chimney on the same wall.....300mm
- « "B" Vertically from on adapter of a chimney on the same wall..... 1500mm
- « "C" Above the ground level, on a roof or balcony.....300mm
- « "D" Under a balcony or car shelter.....25mm
- « "E" From an opening (door, window) of the car shelter to the residence....1200mm
- « "F" Horizontally to an opening, hollow bricks, opening window, ect.....300mm
- « "G" Under a rain gutter, discharge pipes or draining pipes.....25mm
- « "I" Under roof ends.....25mm
- « "J" From a surface in front of the adapter of a chimney.....600mm
- « "K" Facing the adapters.....1200mm
- « "L" From inner or outlet corners.....25mm
- « "M" Directly under an opening window, air discharge duct or any
Other ventilation opening.....300mm
- « "N" From vertical discharge or drainage pipes.....25mm

FRONT PANEL DISASSEMBLING

The front panel is assembled to the boiler, by 4 screw /2 from above and 2 from below/. After unscrewing pull the panel forward.

When the panel is down, we have access to box of electronic board and to hydraulic group.

To remove left or right panel it is necessary to loose the screws holding it / for the left panel there are 4 and for the right panel also/.



DISASSEMBLING FRONT PANEL CONSISTENT BOX

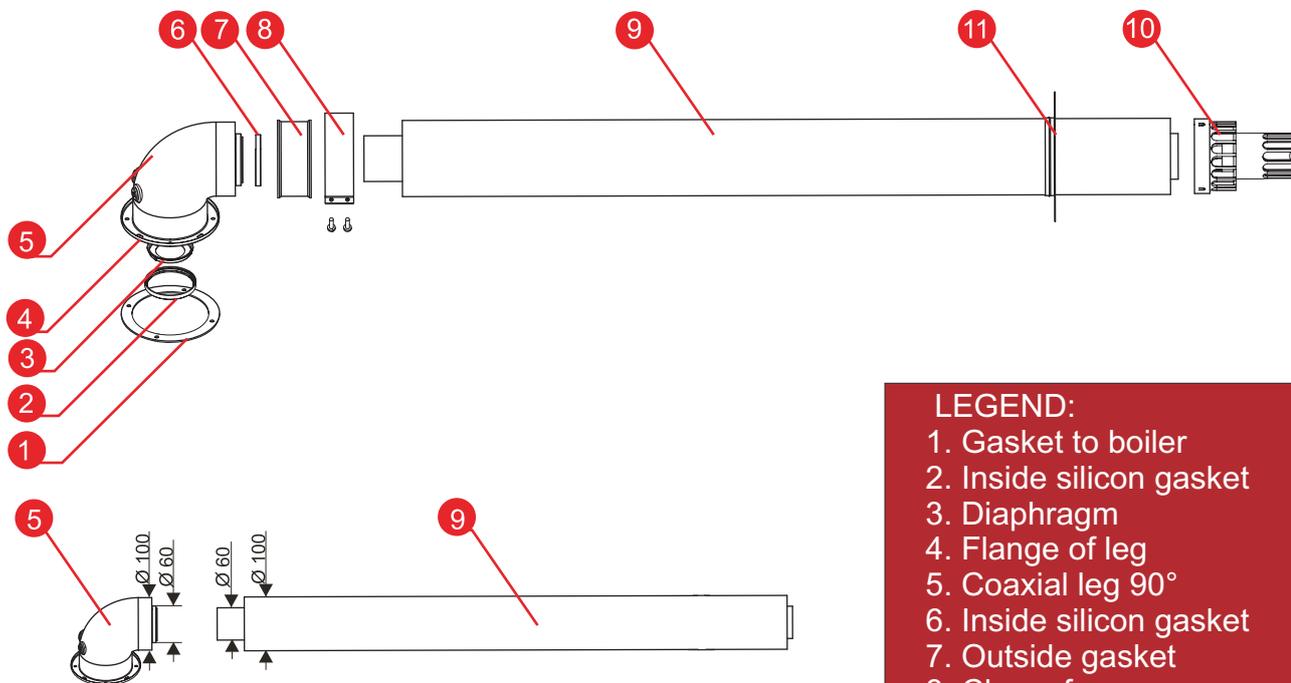
The front panel of consistence box is assembled, by screws. Unscrew and then pull forward.

When the panel is down, we have access to combustion chamber and all of the components in the consistence box / fan, NTC, air pressure switch/.

Wall-hung Gas boiler

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COAXIAL AIR - FLUE UNIT Ø 60/100
FOR WALL-HUNG GAS BOILER "TESY"



LEGEND:

1. Gasket to boiler
2. Inside silicon gasket
3. Diaphragm
4. Flange of leg
5. Coaxial leg 90°
6. Inside silicon gasket
7. Outside gasket
8. Clamp for press
9. Coaxial pipe 1m
10. Horizontal adapter
11. Silicon gasket for wall

Coaxial horizontal system exhausting gases Ø 60/100 with possibility for turning from 1 to 360°. It allows installation of smoke exhaust pipe and air inlet directly on external wall.

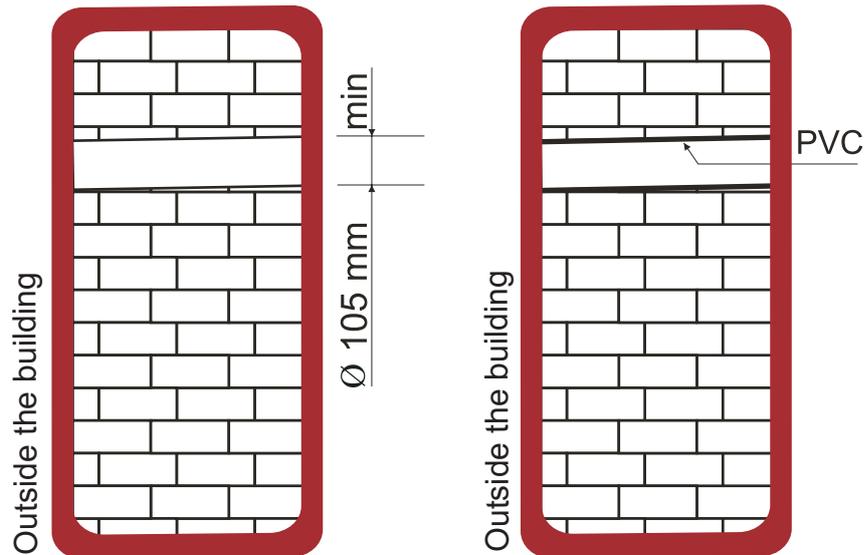
WARNING

Requirements for air-flue units:

- ❏ The elements must be connected;
- ❏ They are for one boiler only;
- ❏ The adapter must be out of the room.

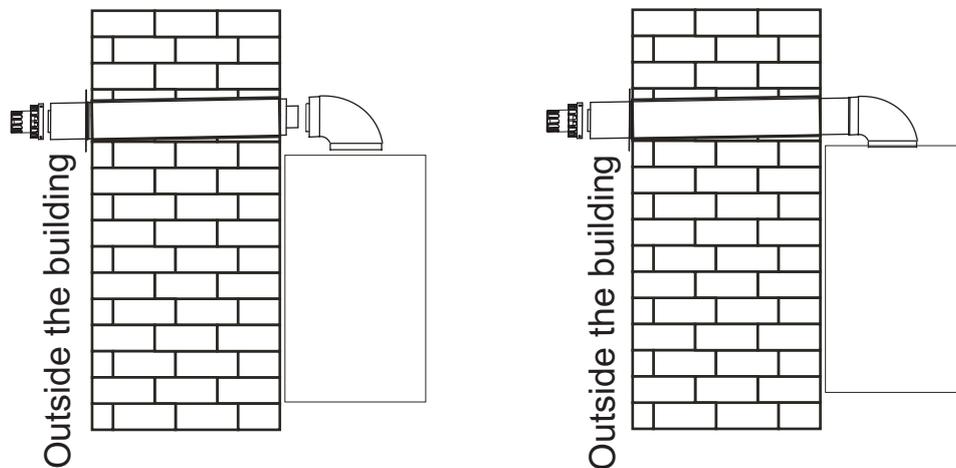
NOTICE: Use only original and approved chimney units, as well as accessories for chimneys of TESY Ltd. Use only TESY diaphragms for adjustment.

CONNECTING OF AIR-FLUE UNIT TO THE BOILER



Recommendations for installation of the coaxial exhaust system:

- Drill a hole in the wall, minimum $\varnothing 105 \text{ mm}$;
- Keep the inclination of the wall opening "In-outside" against the wall with about 1-3 degrees;
- Install a PVC pipe with diameter corresponding to the wall opening (before the installation of the coaxial exhaust pipe).



Use diaphragms according to TABLE 1 and TABLE 2. Put the silicone sealing in inside opening of the leg / $\varnothing 60$ /. Put the coaxial leg in necessary direction and put the sealing between the leg and the boiler. Before the assembling of the coaxial pipe, put the other inside silicone sealing. Put the outside gasket, that must embrace part of the leg and part of the pipe. Next put the pressing clamp along with it's screw.

The final operation is to put the silicone sealing for outside and inside part of the wall. Do not forget: the horizontal adapter must be out of the room.

EXTENDING THE COAXIAL KIT

The length of the coaxial air- flue unit (AFU) included in the device package is 1m. If necessary, the length can be extended up to 3m, by following these operations:

1. Purchase additional 1 or 2 coaxial smoke flue extenders with diameter (inner/outer) Ø 60/100, with length 1m each, which are installed on the existing coaxial chimney.
2. Replace the movable diaphragm that is part of the assembly and put new diaphragm (see TABLE 1 and TABLE 2) at the outlet of the boiler fan, for suitable length of the chimney.
3. Install the so assembled smoke flue on the boiler.

TABLE 1

Length Model	Coaxial exhaust - 1m	Coaxial exhaust - 2m	Coaxial exhaust - 3m
GBA 24G01 SN 21 GBA 24M01 SN 21	Ø 43	Ø 46	Ø 47

TABLE 2

Length Model	Coaxial exhaust - 1m	Coaxial exhaust - 2m	Coaxial exhaust - 3m
GBA 28G01 SN 21 GBA 28M01 SN 21	Ø 45	Ø 48	No diaphragm