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INSTALLATION MANUAL

CO series black

Concentric PP / black coated steel, for outdoor use on the wall

Ø60/100 · Ø80/125

Air intake at the bottom

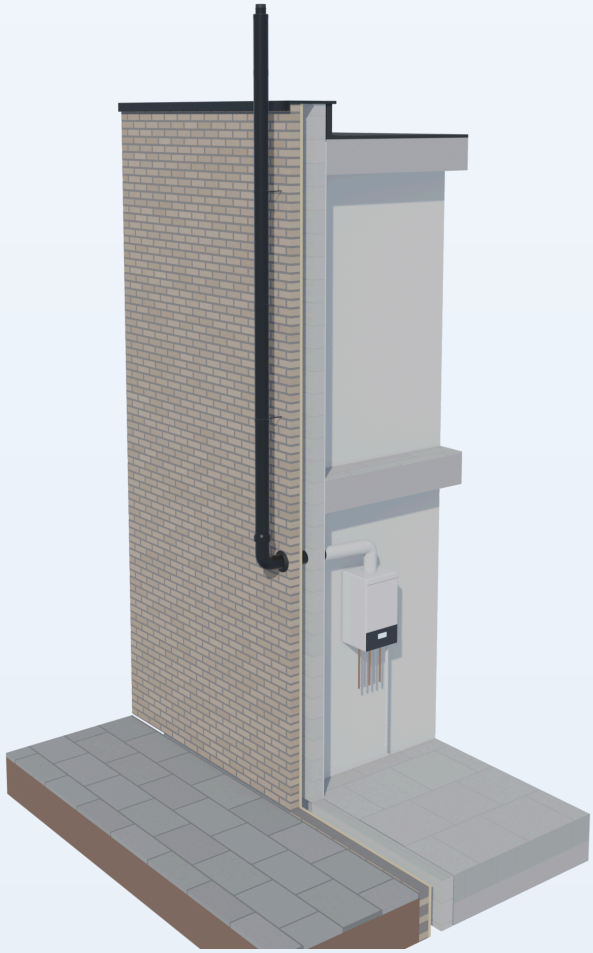
Straight after the first elbow outside, never at the top.

Push-fit, no clamps

The seals are already in the socket. Push in with Super Glidex until it stops.

EN 14471

T120-H1-W-2-O00-LE-E-U0, for gas or oil condensing boilers up to 120 °C.



Version 10/2026

1. The system

The black CO series is a concentric flue system for outdoor use, on the outside wall. Inside, the boiler is connected with the white CF series. At the wall, the adapter changes over to the black CO series.

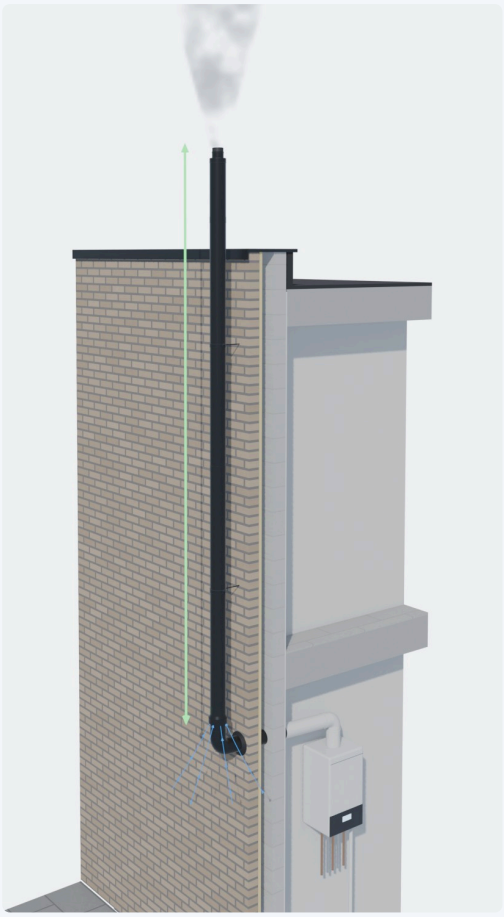
The flue gases rise through the PP inner pipe. Combustion air enters at the bottom through the air intake and flows down to the boiler through the gap between the inner and outer pipe. Above the air intake the air in the gap does not move and keeps the inner pipe warm. At the top, the terminal closes the gap.

Use

- Room-sealed condensing appliances (type C) on gas or oil, flue gas temperature up to 120 °C.
- One appliance per flue, in Ø60/100 or Ø80/125.
- Outside along the wall, also where there is no shaft or usable chimney.
- Inside the house you use the white CF series; the black CO series is for outside.

Technical data

System	**concentric, room-sealed (air from outside)**
Inner pipe (flue gas)	**PP (polypropylene)**
Outer pipe (air)	**steel, black coated**
Seals	**EPDM and silicone, factory fitted**
Joint	**push-fit, 45 mm insertion, no clamps**
Diameters	**60/100 · 80/125 mm**
Max. flue gas temperature	**120 °C**
Designation EN 14471	**T120-H1-W-2-O00-LE-E-U0**
Installation	**outdoors, on the wall**
Fuel	**gas and oil (condensing)**



Air in at the bottom, flue gas out at the top

Read this first

- Have the system installed by a qualified installer, in line with the standards in force and the instructions of the appliance manufacturer.
- Outside, use only parts of the CO series; inside, the white CF series. Do not mix with other systems.
- Maximum length and number of elbows as stated by the appliance manufacturer. Every elbow counts.
- For the seals, use only Super Glidex lubricant (GLIDEX175, also GLIDEX50 and GLIDEX750). Never grease or oil.
- The CO series needs no clamps. The seal holds the joint, the wall brackets carry the flue.
- Always work safely at height: scaffold or aerial platform, and fall protection.

2. Components



Pipe 2 m

Ø60/100	CO20006
Ø80/125	CO20008



Pipe 1 m

Ø60/100	CO10006
Ø80/125	CO10008



Pipe 0.5 m

Ø60/100	CO5006
Ø80/125	CO5008



Elbow 87°

Ø60/100	COB8706
Ø80/125	COB8708



Elbow 45°

Ø60/100	COB4506
Ø80/125	COB4508



Adapter (from white CF to black CO)

Ø60/100	COA06
Ø80/125	COA08



Air intake

Ø60/100	COLT06
Ø80/125	COLT08



Terminal (closes the gap)

Ø60/100	COMA06
Ø80/125	COMA08



Terminal grille for the inner pipe

Ø60/100	PZHI60
Ø80/125	PZHI80



Wall bracket black

Ø60/100	COPB06
Ø80/125	COPB08



Wall rosette

Ø60/100	COSILZ06
Ø80/125	COSILZ08



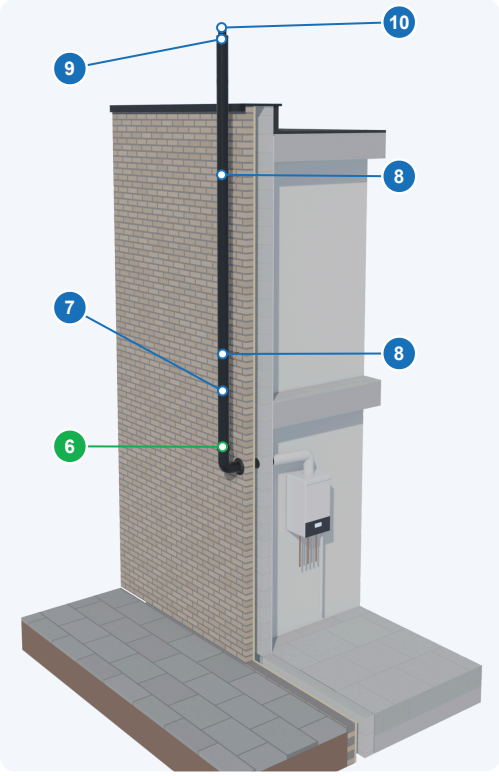
Super Glidex lubricant

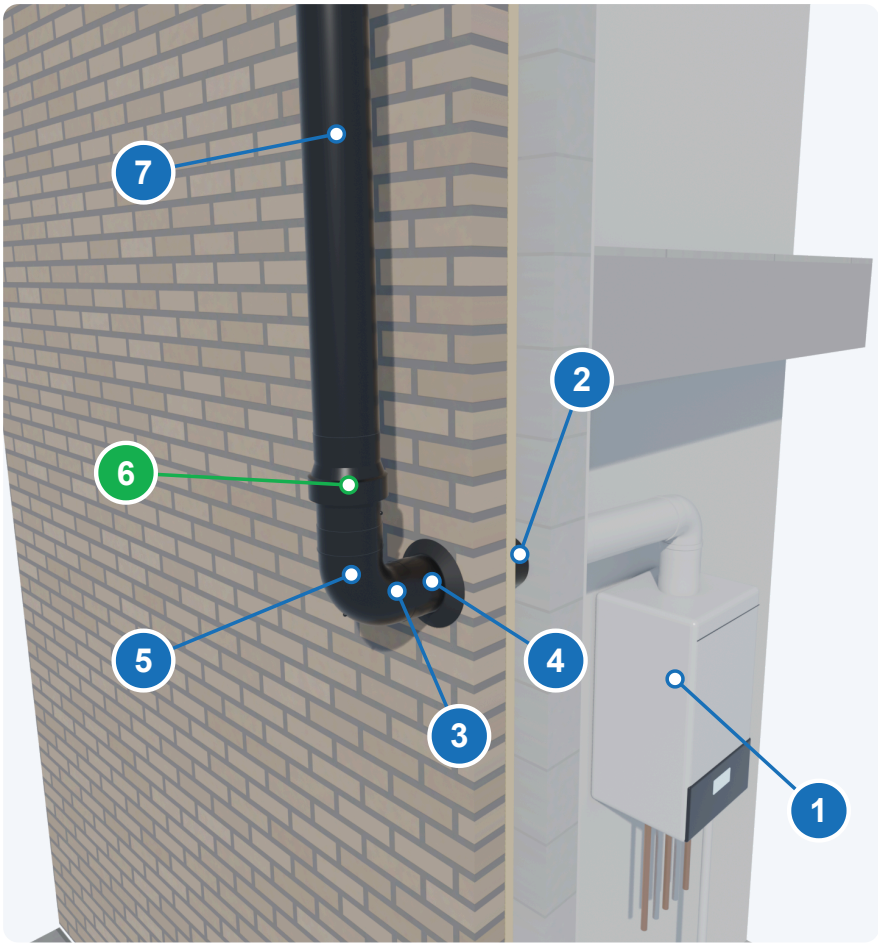
Tube 175 g	GLIDEX175
Tube 50 g	GLIDEX50
Can 750 g	GLIDEX750

Codes ending in 08 are Ø80/125, codes ending in 06 are Ø60/100. The grille has the diameter of the inner pipe: PZHI80 or PZHI60.

Effective length of a pipe = length minus 45 mm insertion: 0.5 m gives 455 mm, 1 m gives 955 mm, 2 m gives 1955 mm.

3. Layout from inside to outside





From the boiler to the terminal (Ø80/125)

1. **Boiler and white CF series**
   Inside, the white CF series from the boiler to the wall, falling 3° towards the boiler.
2. **Adapter COA08**
   Inside, against the wall, on the last white pipe. This is where the black CO series starts.
3. **Wall pipe CO5008**
   Through the wall, falling 3° towards the inside. It sticks out about 10 cm from the wall.
4. **Wall rosette COSILZ08**
   Against the outside wall, around the wall pipe.
5. **Elbow 87° COB8708**
   On the wall pipe, opening facing up.
6. **Air intake COLT08**
   Directly on the elbow, as the first part of the vertical section.
7. **Pipes CO20008, CO10008, CO5008**
   Up along the wall to above the roof edge.
8. **Wall brackets COPB08**
   About one per 1.5 m of pipe.
9. **Terminal COMA08**
   At the top. It closes the gap; the Ø80 inner pipe runs through it.
10. **Terminal grille PZHI80**
    On the end of the Ø80 inner pipe.

In Ø60/100 the parts are the same with 06 at the end (COA06, COLT06, COMA06 ...) and the PZHI60 grille.

The air intake goes straight after the first elbow outside. Never at the top.

Fit the COLT08 (COLT06) air intake as the first part on the elbow, at the bottom of the vertical section. Only the COMA08 terminal with the PZHI80 grille goes at the top.

4. Air intake and design rules

The air intake goes straight after the first elbow outside. Never at the top.



Why so low?

1. **No recirculation**
   The further the air inlet is from the terminal, the smaller the chance that the boiler draws in its own flue gases.

2. **Less condensation**
   With the air inlet at the top, cold outside air runs down the whole pipe and cools the flue gases. At the bottom that air path stays short.

Do not: fit the air intake at the top, just under the terminal.

Design rules

1. **Sizing**
   Maximum length and number of elbows as stated by the appliance manufacturer. Count all elbows, including the ones inside.

2. **Fall**
   The horizontal part, inside and through the wall, falls 3° (about 5 cm per metre) towards the boiler, so the condensate runs back to the boiler. Never the other way.

3. **Wall brackets**
   About one COPB08 bracket per 1.5 m. Fix the threaded rod into load-bearing masonry, also behind cladding or insulation.

4. **Offset**
   If the flue has to move sideways, use two 45° elbows (COB4508), with a pipe in between if needed. Keep the offset along the wall, not away from it; then the standard bracket fits.

5. **Terminal**
   Above the roof edge, clear of windows, ventilation openings and obstacles, in line with the standards in force (e.g. NBN D 51-003) and the appliance manufacturer.

6. **Clamps**
   Not needed in the CO series.

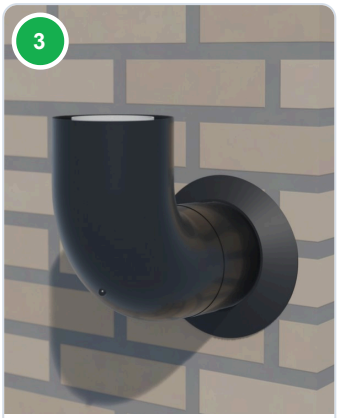
5. Installation step by step



1 Inside: white CF series from the boiler to the wall, falling 3° towards the boiler. Drill the wall opening slightly larger than Ø100 or Ø125.



2 Adapter COA08 inside on the last white pipe. Wall pipe CO5008 through the wall, about 10 cm out of the wall. Wall rosette COSILZ08 against the wall.



3 Elbow 87° COB8708 on the wall pipe, opening facing up.



4 Air intake COLT08 directly on the elbow. Never at the top.



5 Pipes upwards: Super Glidex on the seal and push in straight until it stops (45 mm).



6 Wall brackets COPB08, about one per 1.5 m, with the threaded rod in load-bearing masonry.



7 At the top, the COMA08 terminal, above the roof edge.



8 Clip the PZHI80 terminal grille onto the Ø80 inner pipe.

Joining and shortening

Joining: the seals are already in the socket. Check that they sit right, put a little Super Glidex (GLIDEX175) on the seal and push in straight until it stops. The parts only fit together one way. Never grease or oil.

Shortening: work with whole pipes where you can (0.5, 1 and 2 m). If a pipe has to be shorter: pull the inner pipe out of the outer pipe, shorten both by the same amount, each at its own plain end (never at the socket), square and deburred. Slide the inner pipe back until it sticks out as far as before; measure that first.

6. After installation and maintenance

After installation

- Check all joints and wall brackets.
- Check that the air intake is clear and sits straight after the first elbow outside.
- Have the tightness checked, for example with a measurement in the annular gap (O_2 / CO_2).
- Commission the appliance according to the manufacturer's instructions.
- Keep this manual near the installation.

Maintenance

- Yearly check, together with the appliance service.
- Keep the air intake, the terminal and the grille clear (leaves, nests, snow).
- Check the wall brackets and joints; replace damaged parts only with parts of the CO series.

Questions? We are happy to help.

Not sure about the layout, a diameter or the length your boiler allows? Mail or call us and we will look at it with you.

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This manual does not replace the instructions of the appliance manufacturer or the standards in force. Subject to technical changes.