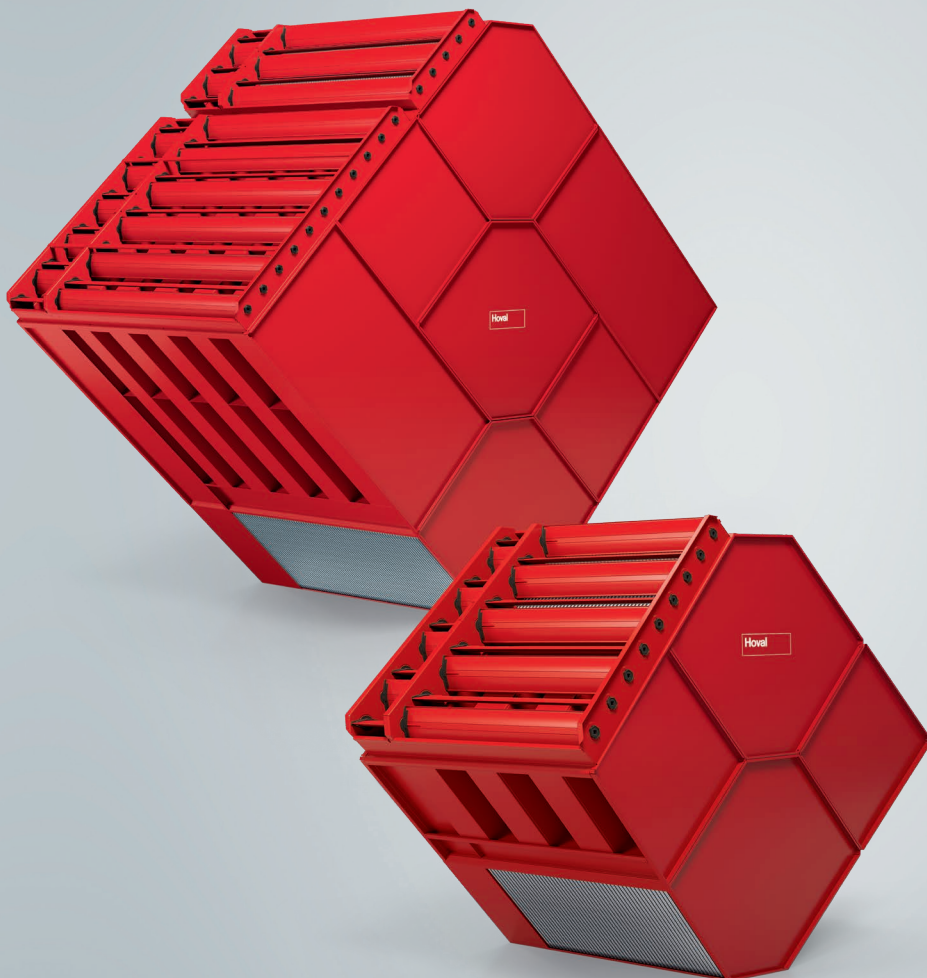


Gotthard plate heat exchanger

Instructions for assembling combi blocks supplied loose (B5)



GVC110-255, B5

GGC110-255, B5

| | |
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1 Preparation



Caution

Risk of injury from incorrect work. The exchangers may only be installed and maintained by authorised and instructed personnel who are well acquainted with the units and are informed about possible dangers.

These instructions are for operating engineers as well as specialists in building, heating and ventilation technology.

These instructions describe how to assemble combi blocks supplied loose. This facilitates installation into the ventilation unit if space is restricted. The individual components and possibly the dampers are then assembled on site. The mounting material is also supplied.

Please also observe the following:

- the instructions for lifting Gotthard plate heat exchangers
- the instructions for installation and maintenance of Gotthard plate heat exchangers

1.1 Required tools:

- Hoisting equipment to lift the components
- Cartridge gun
- Rivet gun
- Electrical screwdriver
- Power drill with a metal drill bit Ø 4 mm ■

1.2 Mounting material supplied for Gotthard GVC

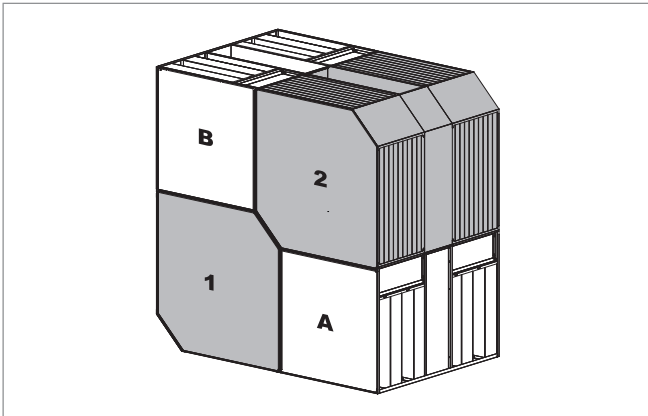
| Mat.No. | Designation | Colour coding |
|---------|---------------------------------------------|---------------|
| 232441 | Blind rivet 4 x 9.5 Alu | ■ |
| 2038678 | Blind rivet 4 x 12 with grooved rivet shaft | ■ |
| 2038736 | Self-drilling screw 3.5 x 9.5 | ■ |
| | Sealing compound MS 937 grey | ■ |

1.3 Mounting material supplied for Gotthard GGC (corrosion-protected design)

| Mat.No. | Designation | Colour coding |
|---------|----------------------------------|---------------|
| 232471 | Blind rivet 4 x 8.6 CR | ■ |
| 232466 | Blind rivet 4 x 11.8 CR | ■ |
| 2038737 | Self-drilling screw 3.5 x 9.5 CR | ■ |
| | Sealing compound MS 937 grey | ■ |

2 Delivery

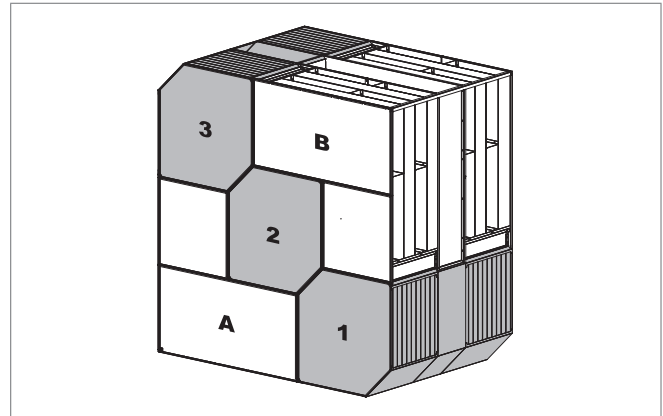
The components are bolted together for safe transport.



1|2 Single exchanger

A|B Air guide

Bild 1: Components of Gotthard exchangers 110-170



1|2|3 Single exchanger

A|B Air guide

Bild 2: Components of Gotthard exchangers 195-255

2.1 Disassembling the combi blocks

- Remove the bolt screws from the side wall flanges and separate the individual components.



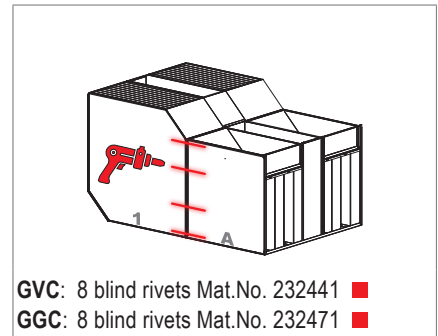
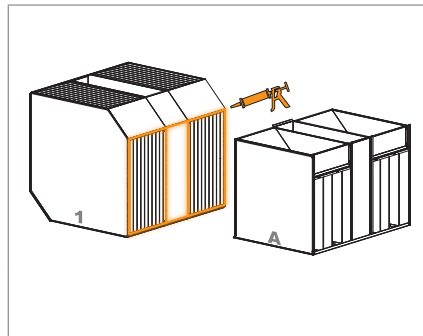
Notice

Do not change the arrangement of the components.
Reassemble the combi block in exactly the same way.

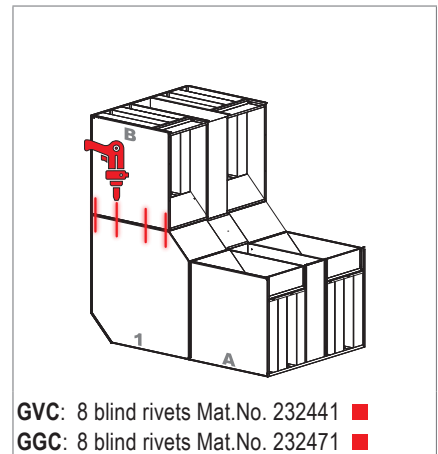
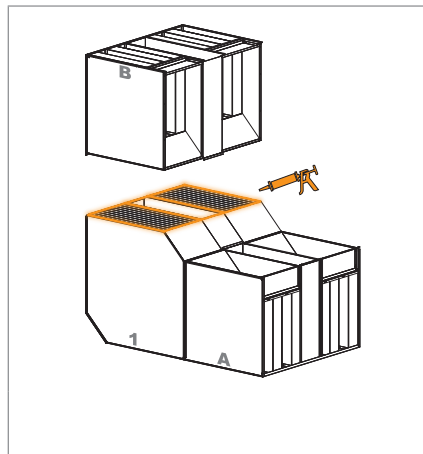
3 Assembly of sizes 110-170

3.1 Combi block in sizes 110-170

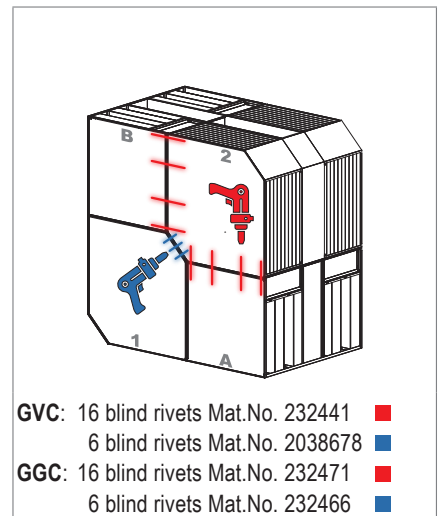
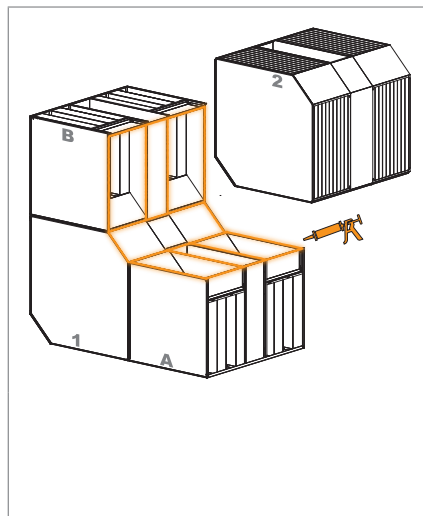
- Prepare the single exchanger 1.
- Apply sealing compound to the side connection edges.
- Move the air guide A into position.
- Rivet the side wall flanges together on both sides of the exchanger.



- Apply sealing compound to the upper connection edges on the single exchanger 1.
- Move the air guide B into position.
- Rivet the side wall flanges together on both sides of the exchanger.

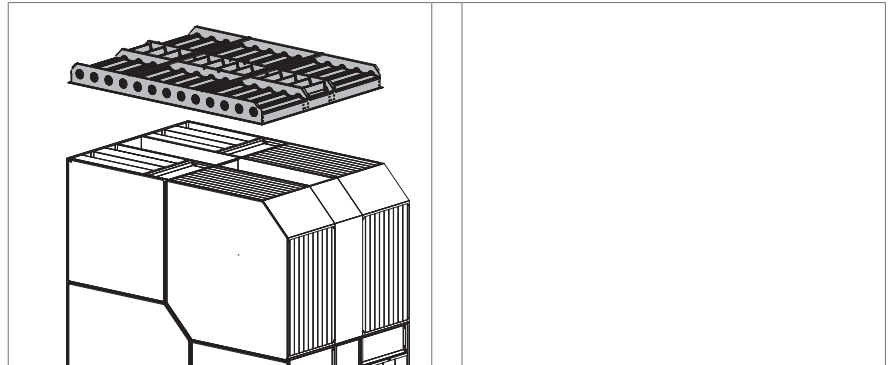


- Apply sealing compound to the connection edges on the single exchanger 1 and on the air guides A and B.
- Move the single exchanger 2 into position.
- Rivet the side wall flanges together on both sides of the exchanger.

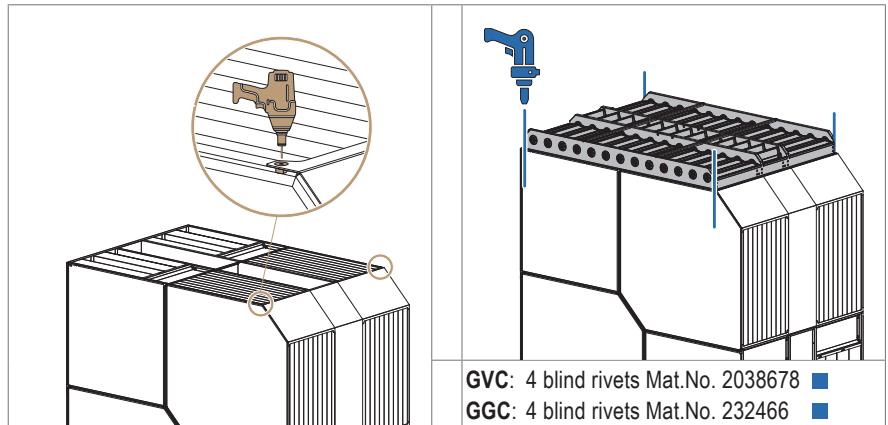


3.2 Control dampers in sizes 110-170

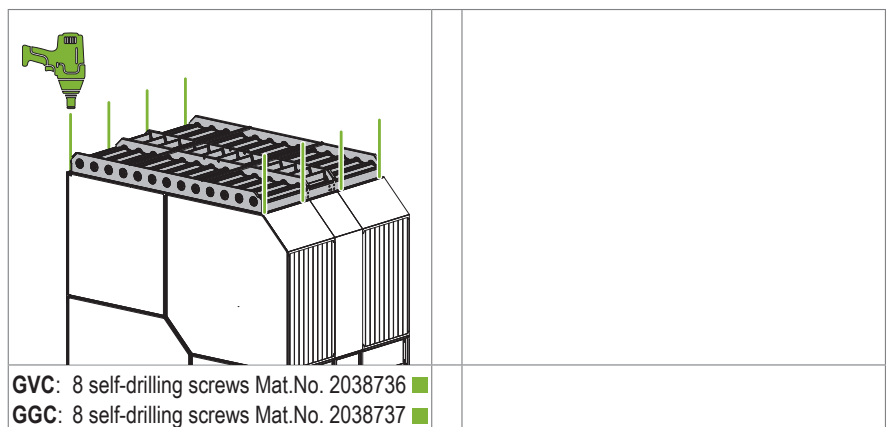
- Identify the correct position for the control dampers:
 - Place them on the open side of the bypass.
 - With side bypass: Pay attention to the installation position of the exchanger.
- Turn the combi block to the correct position.



- Drill out the rivets in the two corners of the combi block.
- Move the control dampers into position.
- Rivet the dampers to the flanges of the side walls of the combi block on both sides.

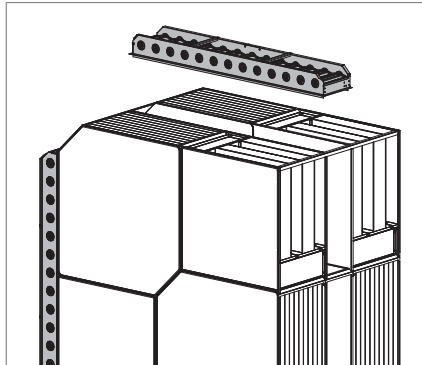


- Mount the control dampers on the combi block using self-drilling screws.

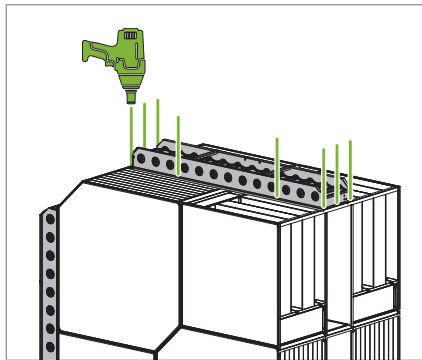


3.3 Recirculation damper in sizes 110-170

- Identify the correct position for the recirculation damper:
 - Place it on the open side of the bypass.
 - With side bypass: Pay attention to the installation position of the exchanger.
- Turn the combi block to the correct position.



- Move the recirculation damper into position.
- Mount the damper on the combi block using self-drilling screws.

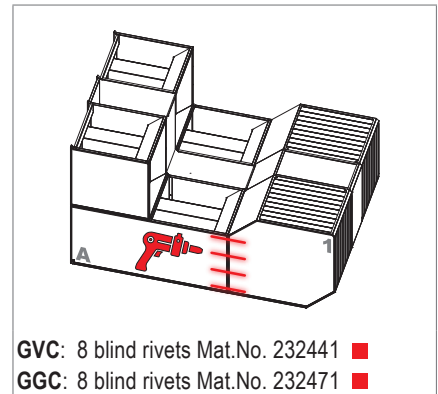
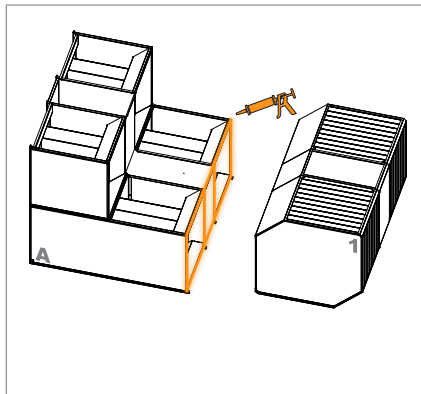


GVC: 8 self-drilling screws Mat.No. 2038736 ■
GGC: 8 self-drilling screws Mat.No. 2038737 ■

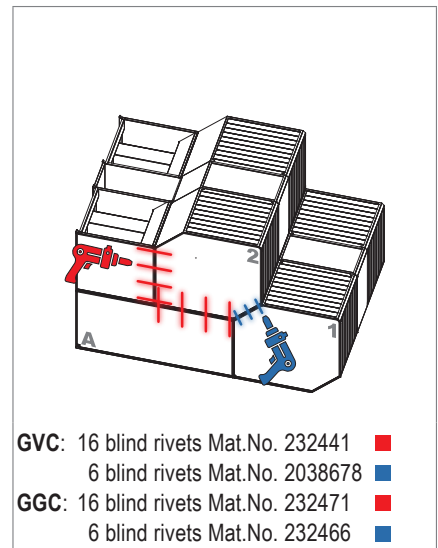
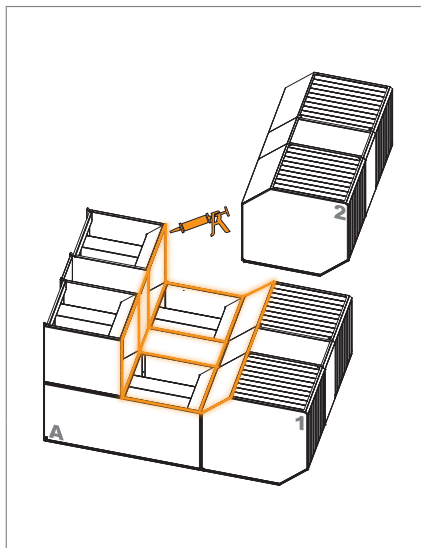
4 Assembly of sizes 195-255

4.1 Combi block in sizes 195-255

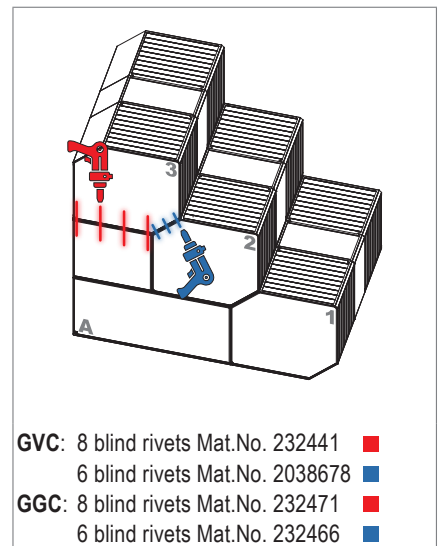
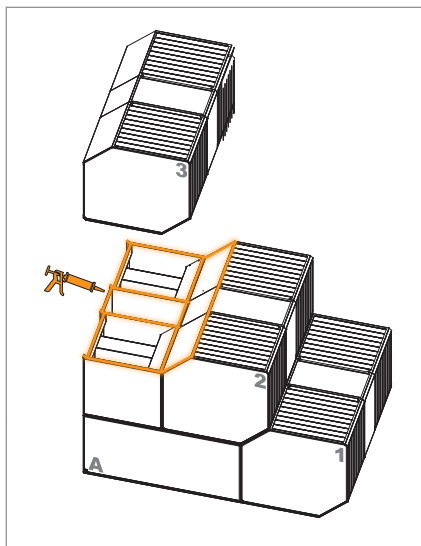
- Prepare the air guide A.
- Apply sealing compound to the side connection edges.
- Move the single exchanger 1 into position.
- Rivet the side wall flanges together on both sides of the exchanger.



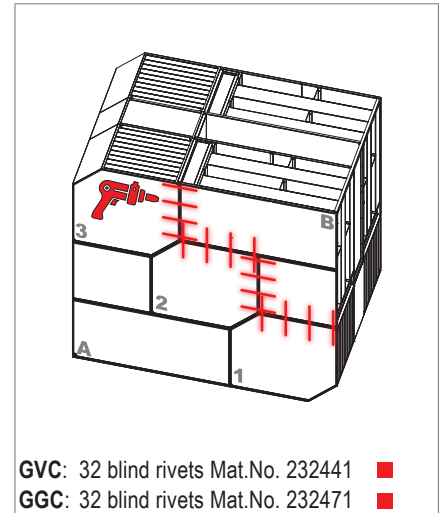
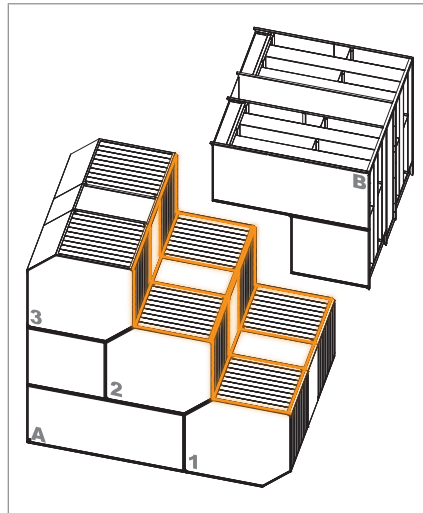
- Apply sealing compound to the connection edges on the air guide A and on the single exchanger 1.
- Move the single exchanger 2 into position.
- Rivet the side wall flanges together on both sides of the exchanger.



- Apply sealing compound to the connection edges on the air guide A and on the single exchanger 2.
- Move the single exchanger 3 into position.
- Rivet the side wall flanges together on both sides of the exchanger.



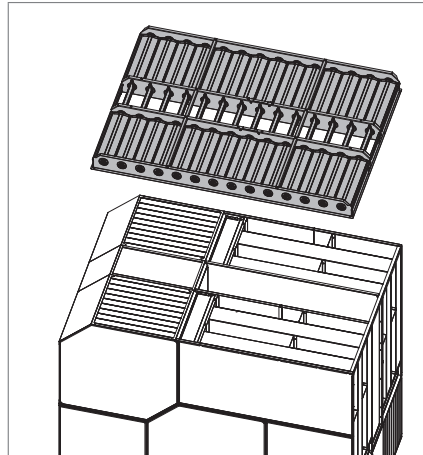
- Apply sealing compound to the connection edges on the single exchangers 1, 2 and 3.
- Move the air guide B into position.
- Rivet the side wall flanges together on both sides of the exchanger.



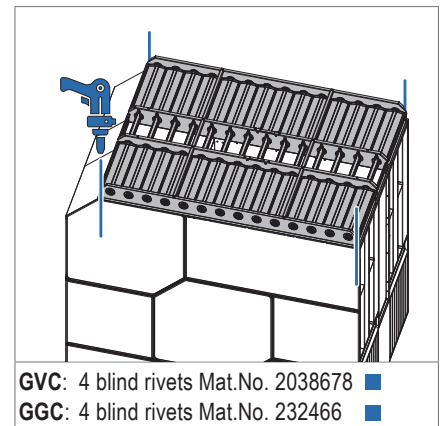
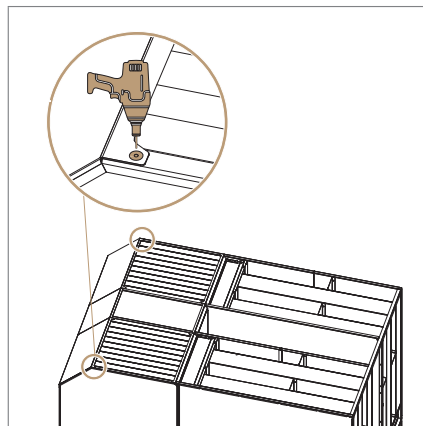
GVC: 32 blind rivets Mat.No. 232441 ■
GGC: 32 blind rivets Mat.No. 232471 ■

4.2 Control dampers in size 195

- Identify the correct position for the control dampers:
 - Place them on the open side of the bypass.
 - With side bypass: Pay attention to the installation position of the exchanger.
- Turn the combi block to the correct position.

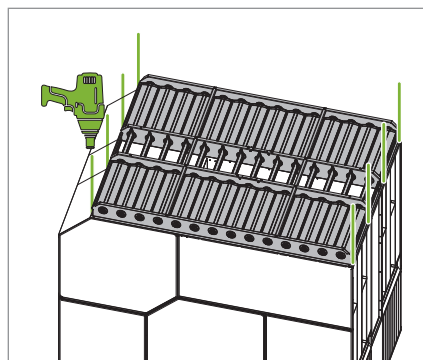


- Drill out the rivets in the two corners of the combi block.
- Move the control dampers into position.
- Rivet the dampers to the flanges of the side walls of the combi block on both sides.



GVC: 4 blind rivets Mat.No. 2038678 ■
 GGC: 4 blind rivets Mat.No. 232466 ■

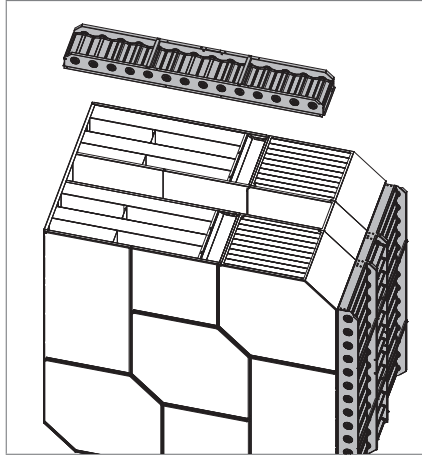
- Mount the control dampers on the combi block using self-drilling screws.



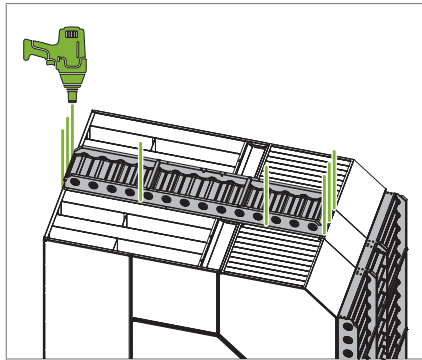
GVC: 8 self-drilling screws Mat.No. 2038736 ■
 GGC: 8 self-drilling screws Mat.No. 2038737 ■

4.3 Recirculation damper in size 195

- Identify the correct position for the recirculation damper:
 - Place it on the open side of the bypass.
 - With side bypass: Pay attention to the installation position of the exchanger.
- Turn the combi block to the correct position.



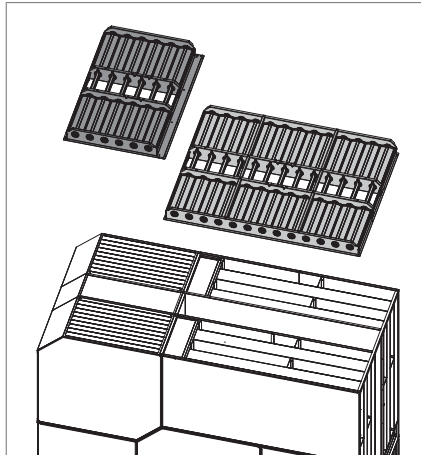
- Move the recirculation damper into position.
- Mount the damper on the combi block using self-drilling screws.



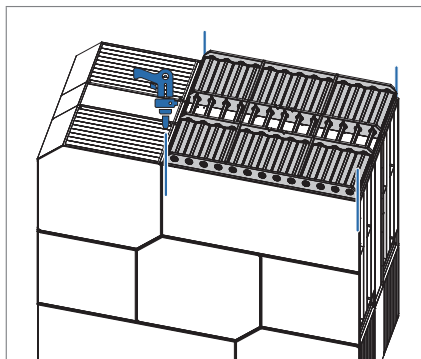
GVC: 8 self-drilling screws Mat.No. 2038736 ■
GGC: 8 self-drilling screws Mat.No. 2038737 ■

4.4 Control dampers in sizes 225-255

- Identify the correct position for the control dampers:
 - Place them on the open side of the bypass.
 - With side bypass: Pay attention to the installation position of the exchanger.
- Turn the combi block to the correct position.



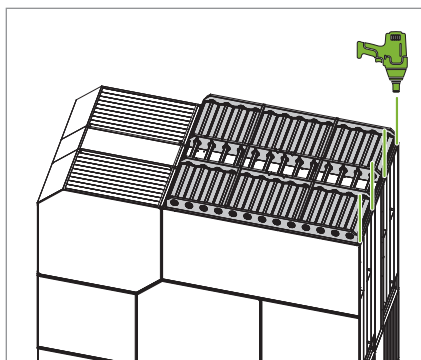
- Move part 1 of the control dampers into position.
- Rivet the dampers to the flanges of the side walls of the combi block on both sides.



GVC: 4 blind rivets Mat.No. 2038678 ■

GGC: 4 blind rivets Mat.No. 232466 ■

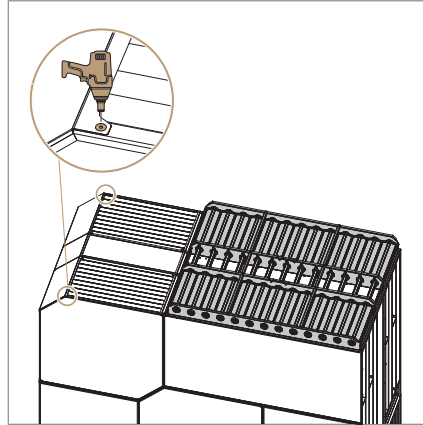
- Mount part 1 of the control dampers on the combi block using self-drilling screws.



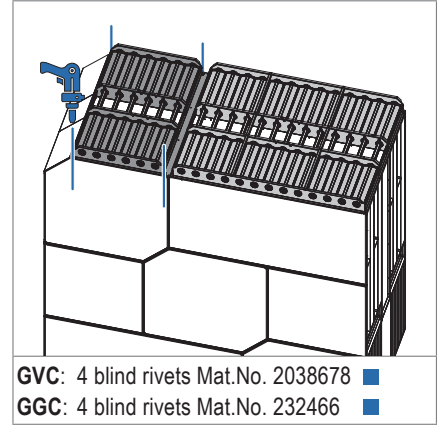
GVC: 4 self-drilling screws Mat.No. 2038736 ■

GGC: 4 self-drilling screws Mat.No. 2038737 ■

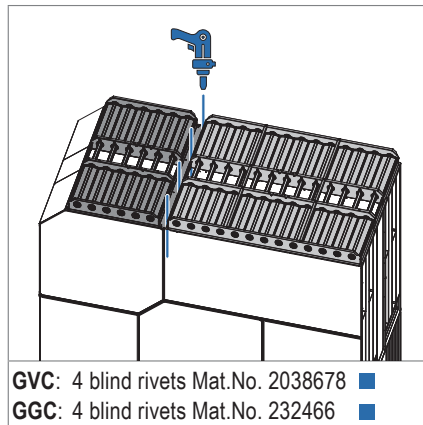
- Drill out the rivets in the two corners of the combi block.



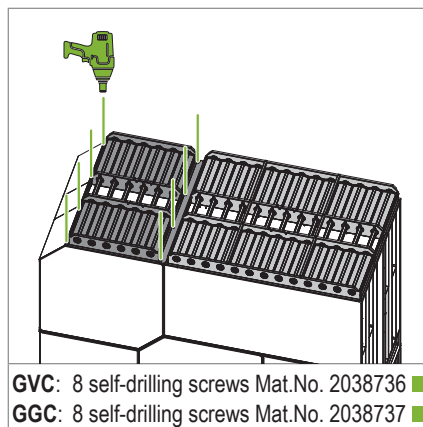
- Move part 2 of the control dampers into position.
- Rivet the dampers to the flanges of the side walls of the combi block on both sides.



- Rivet part 2 of the control dampers to part 1 of the control dampers.

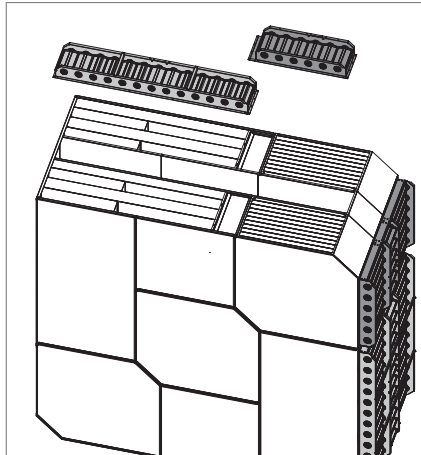


- Mount part 2 of the control dampers on the combi block using self-drilling screws.

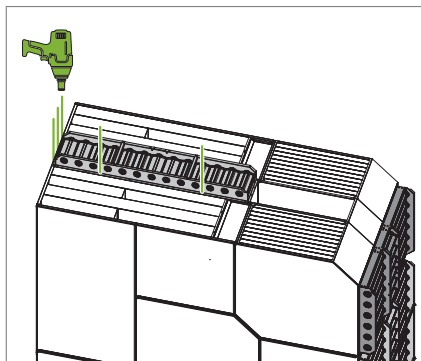


4.5 Recirculation damper in sizes 225-255

- Identify the correct position for the recirculation damper:
 - Place it on the open side of the bypass.
 - With side bypass: Pay attention to the installation position of the exchanger.
- Turn the combi block to the correct position.

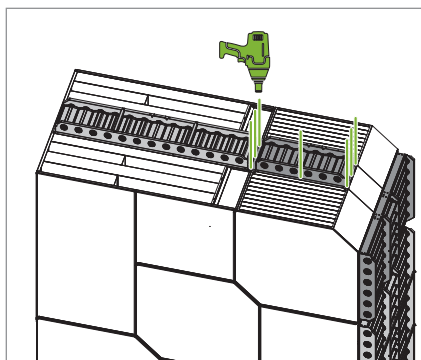


- Move part 1 of the recirculation damper into position.
- Mount the damper on the combi block using self-drilling screws.

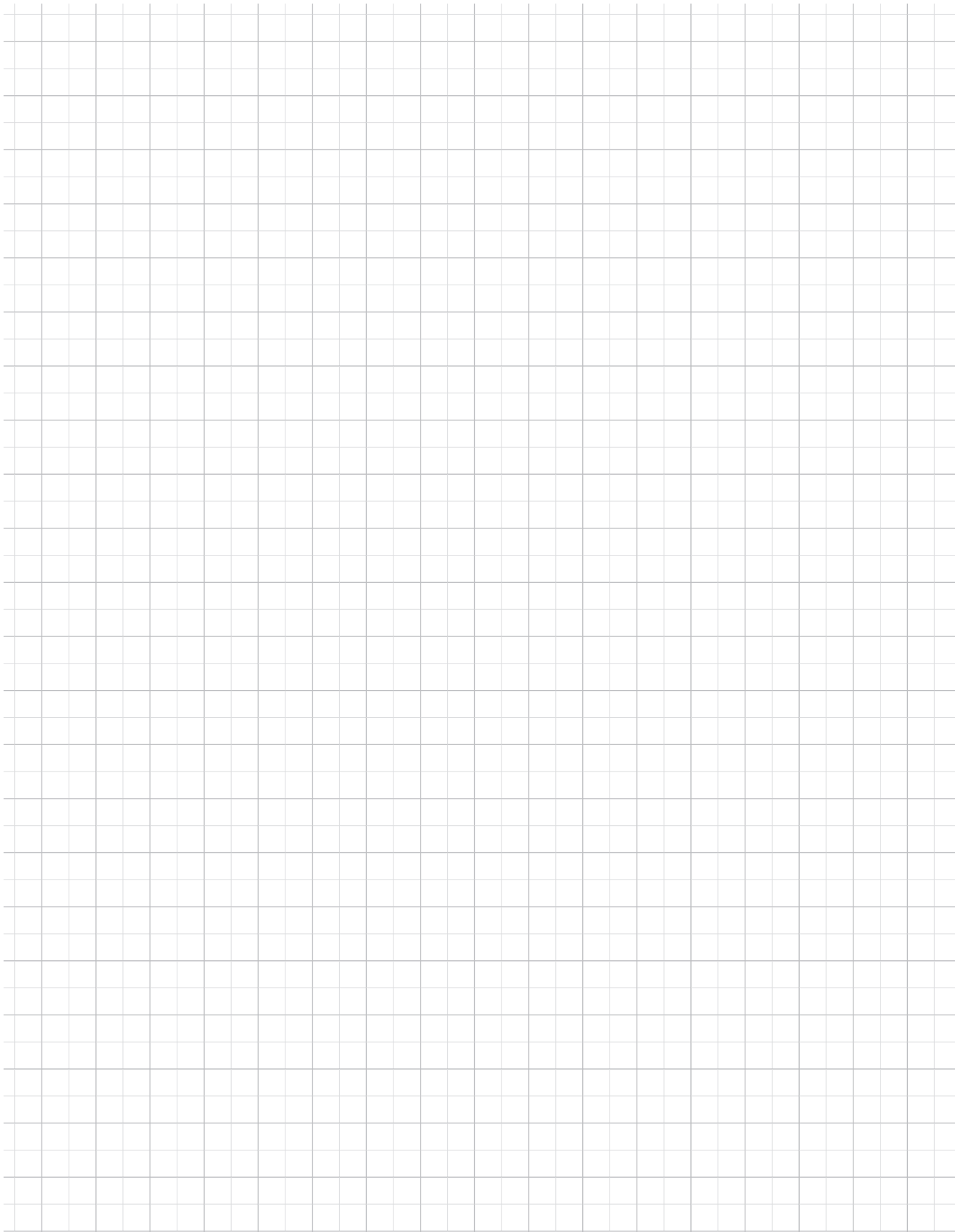


GVC: 5 self-drilling screws Mat.No. 2038736 ■
GGC: 5 self-drilling screws Mat.No. 2038737 ■

- Move part 2 of the recirculation damper into position.
- Mount the damper on the combi block using self-drilling screws.



GVC: 7 self-drilling screws Mat.No. 2038736 ■
GGC: 7 self-drilling screws Mat.No. 2038737 ■



Gotthard plate heat exchanger

Instructions for assembling combi blocks supplied loose (B5)

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