GastroFlow

Installation, commissioning and maintenance

Our kitchen hoods are designed to provide maximum comfort in all types of commercial kitchens. But we are not satisfied with function alone. Stylish design, flexible layout and easy cleaning make life a little easier for kitchen staff. Our wide range makes it easy to create functional and inspiring kitchen environments.

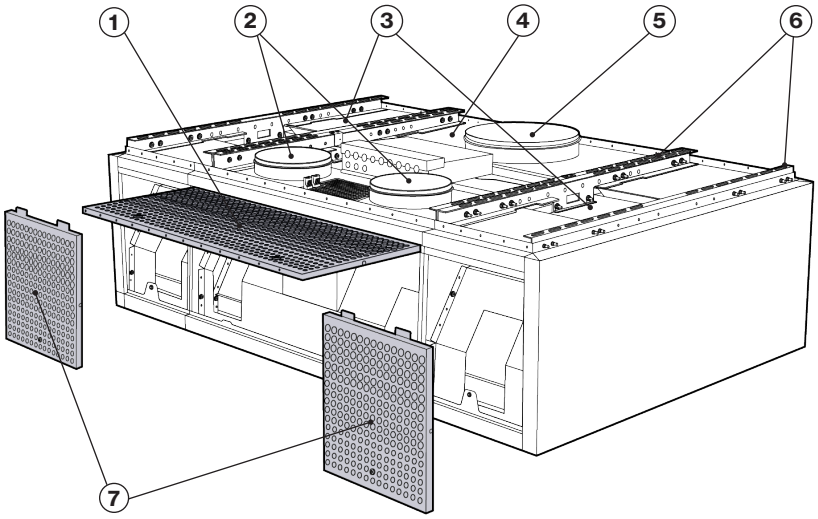
Acticon

Table of contents

Product overview

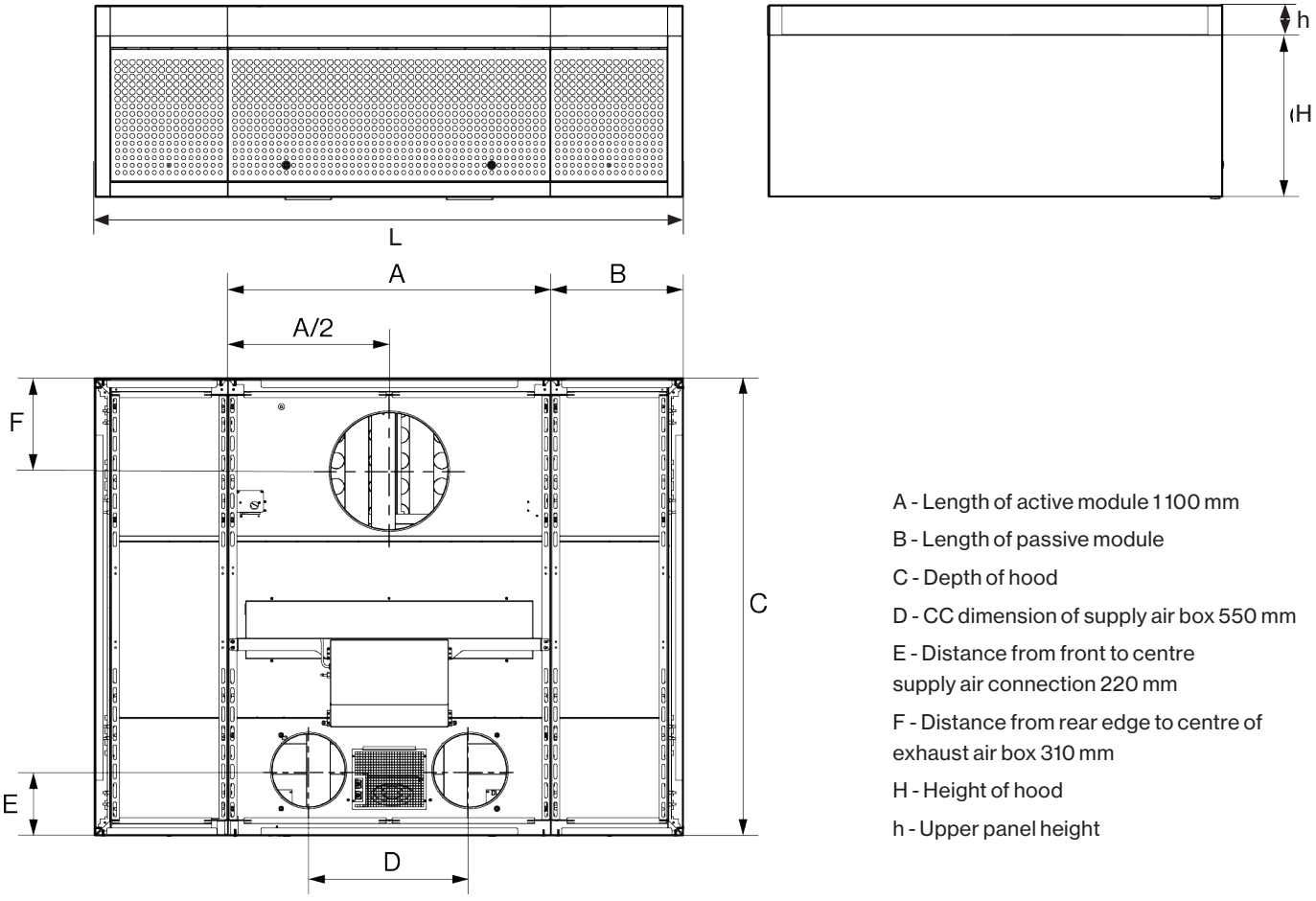
Module overview

Example of what a hood might look like.



1. Supply front
2. Supply air connection
3. Passive module
4. Active module
5. Exhaust air connection
6. Suspension rail
7. Front grilles

Dimensions



A - Length of active module 1100 mm

B - Length of passive module

C - Depth of hood

D - CC dimension of supply air box 550 mm

E - Distance from front to centre supply air connection 220 mm

F - Distance from rear edge to centre of exhaust air box 310 mm

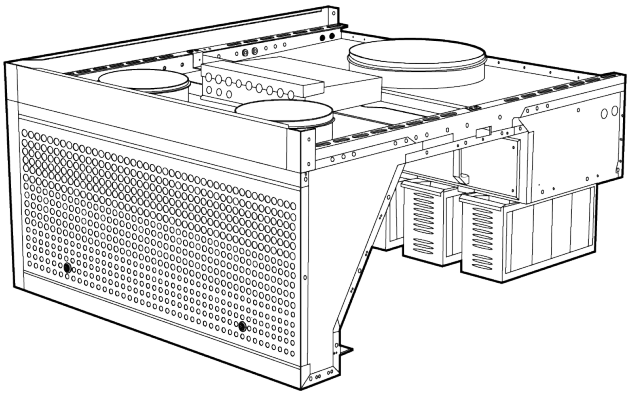
H - Height of hood

h - Upper panel height

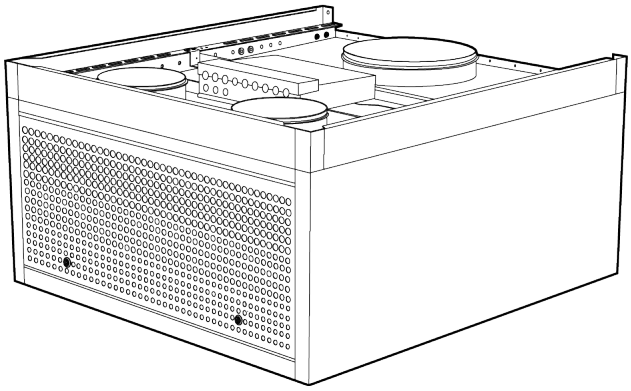
Variants

Examples of different hood variants illustrated with an active module.

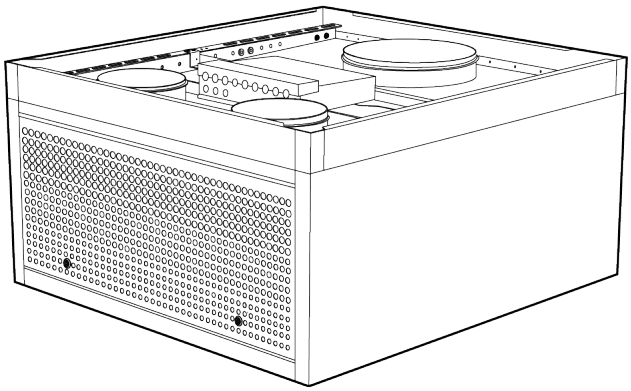
2-sided



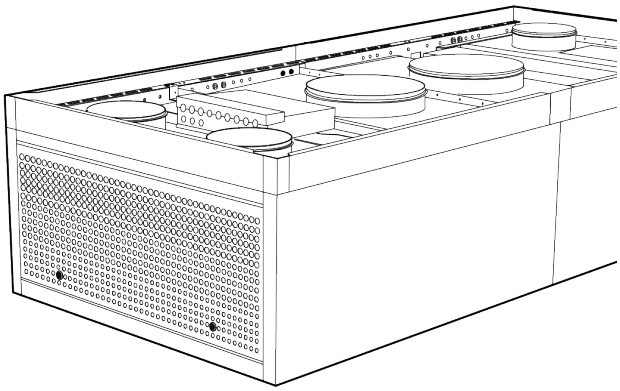
3-sided



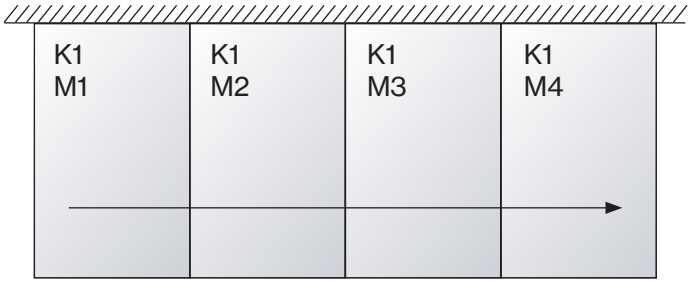
4-sided



4-sided back-to-back



Module marking

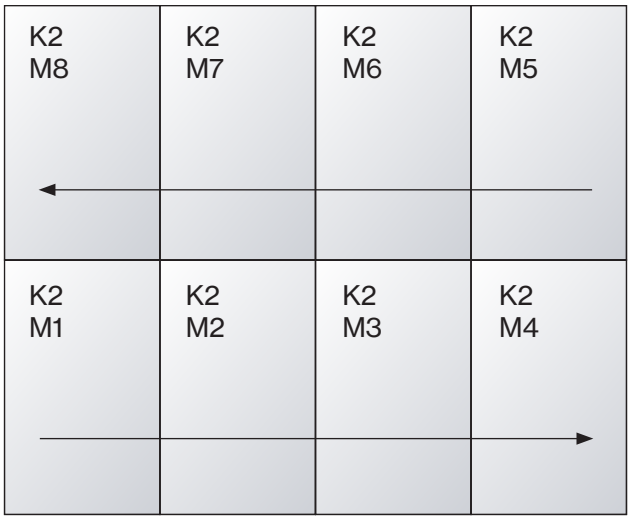


Wall hood view from above

K = Hood number

M = Module number

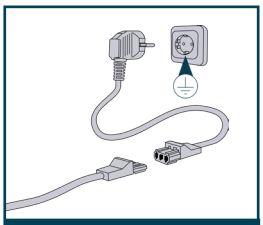
Numbering always runs from left to right. In the case of back-to-back hoods, numbering runs counterclockwise as seen from above.

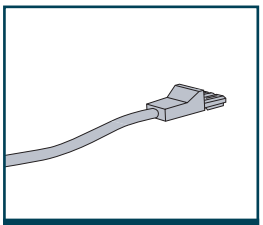


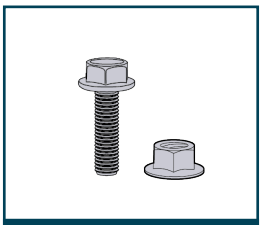
Suspended hood view from above

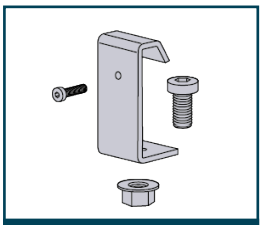
Preparation

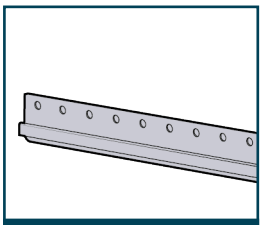
Identify parts supplied

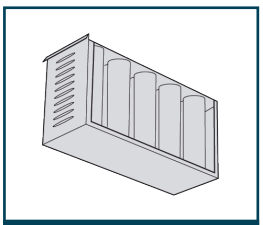

Power cable lighting

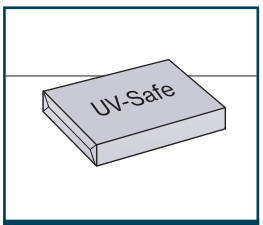

Extension cable lighting


M8 screw/nut

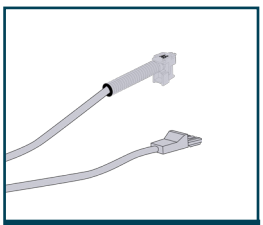

Hook for wall rail


Wall rail

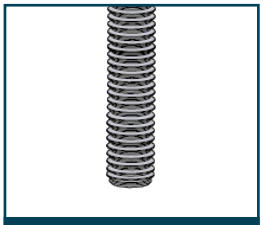

Cyclone filter cartridge

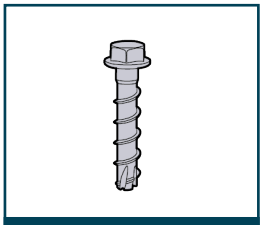


UV-Safe accessories

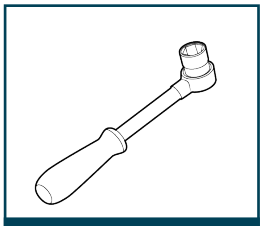

Control air fan power cable

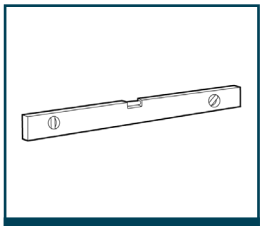
What is NOT included in deliverables

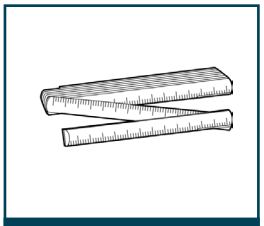

Threaded rod

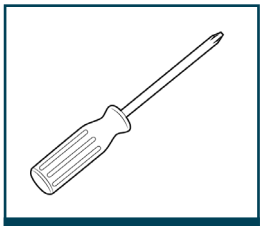

Mounting screw to wall

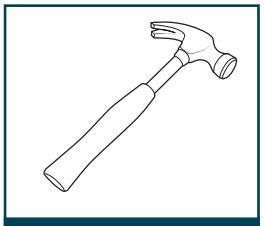
Tools

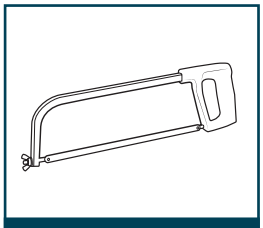

Socket wrench/spanners

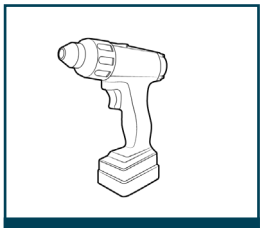

Spirit level/laser level

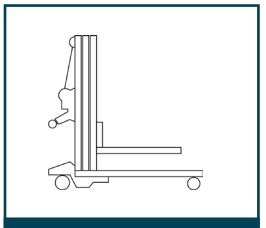

Ruler


Screwdriver


Hammer

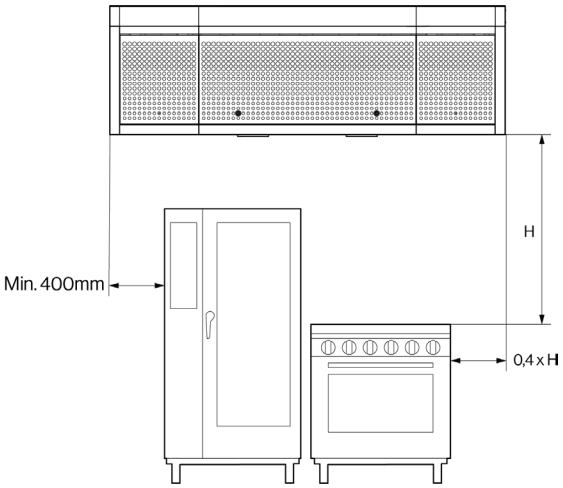

Hacksaw/cutting tool


Power wrench


Lift

Positioning the hood according to a drawing

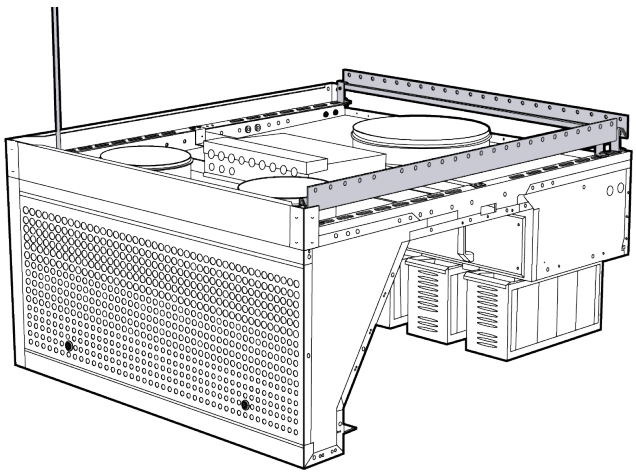
Always check the position of the hood against plans. In the absence of plans, the hood should be positioned as shown in the figure below.



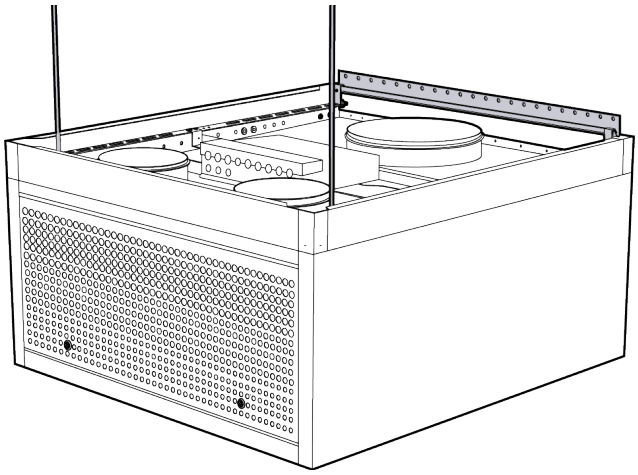
An overhang of at least 400 mm above kitchen appliances is recommended.

Mounting points

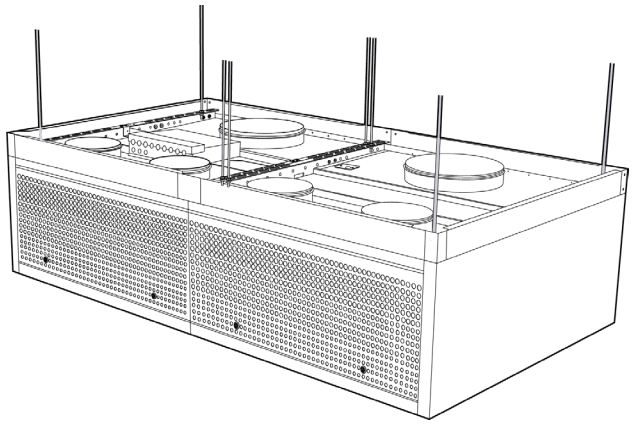
2-sided



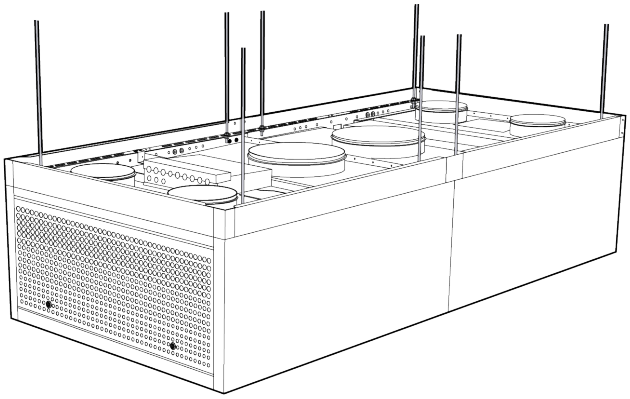
3-sided



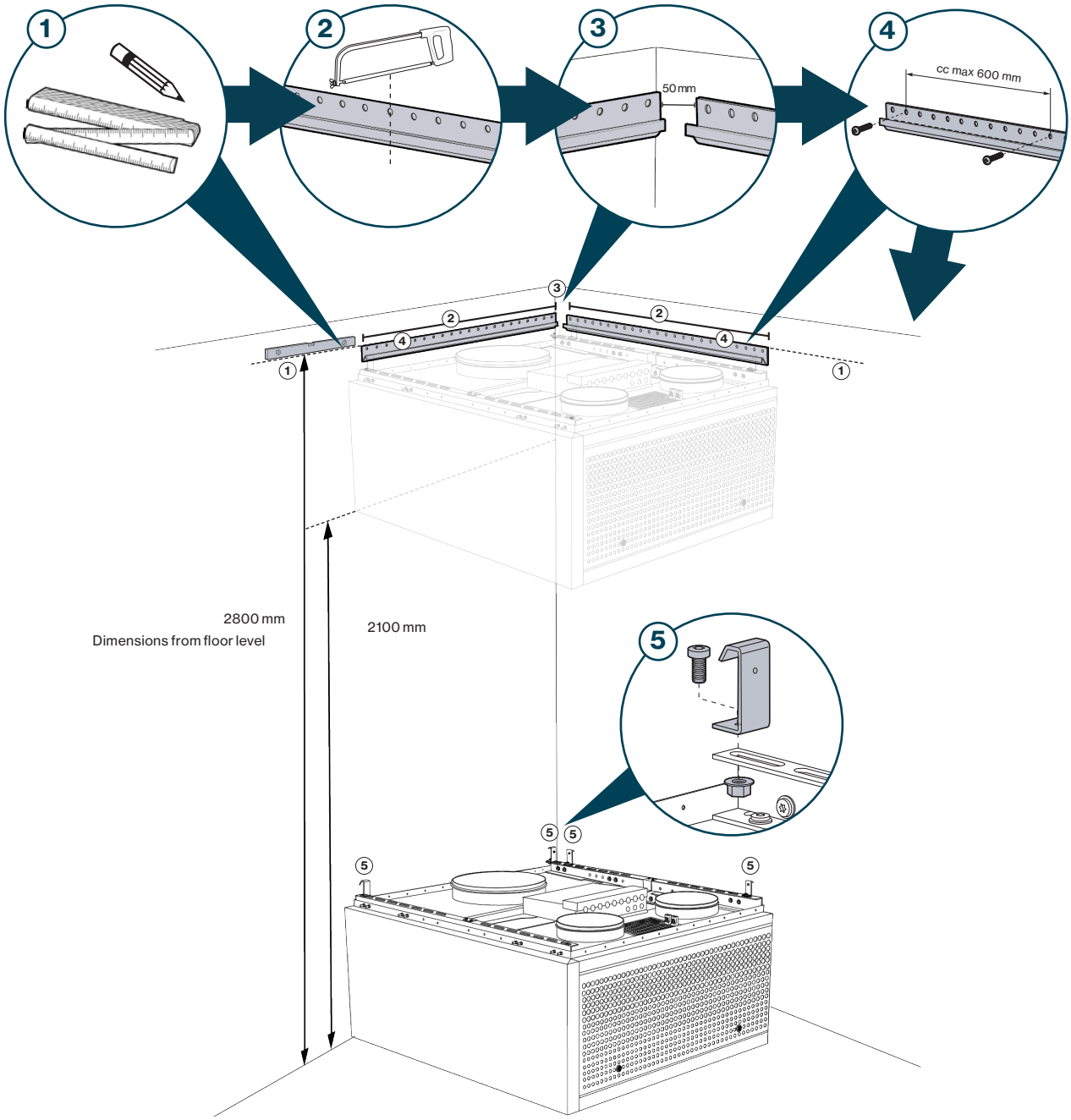
4-sided

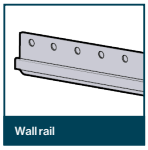


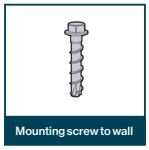
4-sided back-to-back



Pre-assembly for wall-mounted hoods




Wall rail

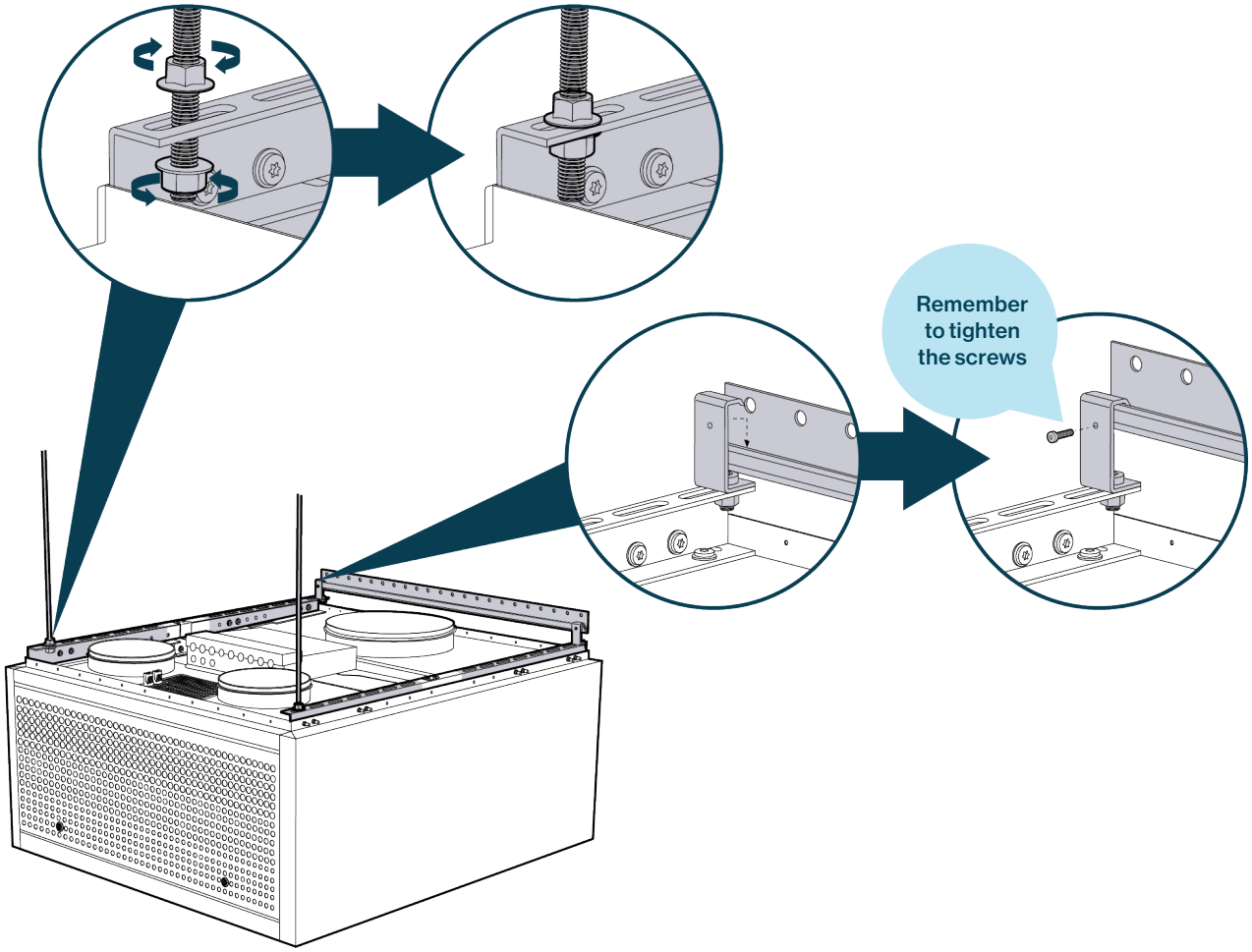

Mounting screw to wall


Hook for wall rail

1. Measure and mark 2800 mm from FL (Floor Level)
2. Cut wall rail:
   - For 2-sided hood L-50 mm
   - For 3-sided hood L-100 mm
   - Wall rail againt side C-100 mm.
3. In corners, the rear wall rail should always be placed towards the inside corner. Therefore, the side wall rail must always be fixed at least 50 mm from the inner corner.
4. Screw the wall rails with the upper edge against the marked line. Use mounting screws in wall with max CC distance 600 mm. The number of mounting points depends on the type of wall.
5. Install the hook on the hood using an M8 bolt in the rear ceiling profile and/or side profile as shown on the drawing before lifting the hood into place.

Installation

Mounting of modules



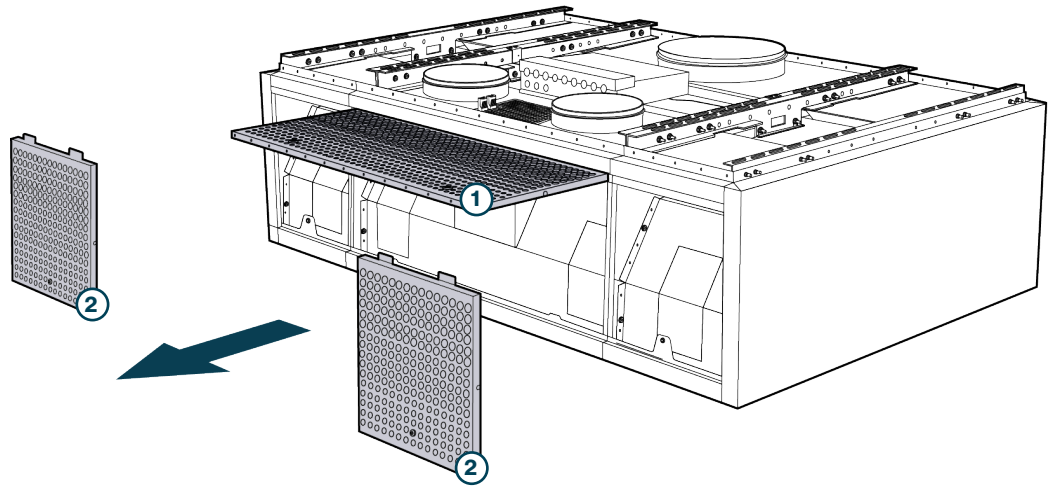
Installing with threaded rods

1. Identify the appropriate mounting. Use existing holes (10 mm) at the ends of the mounting rail to find the appropriate mounting point. If, for example, a ventilation duct gets in the way of a mounting position on the outer edge, the mounting point can be moved further into the existing holes on the hood..
2. Attach the threaded rod with nuts on both sides of the mounting rail.

Mounting on walls

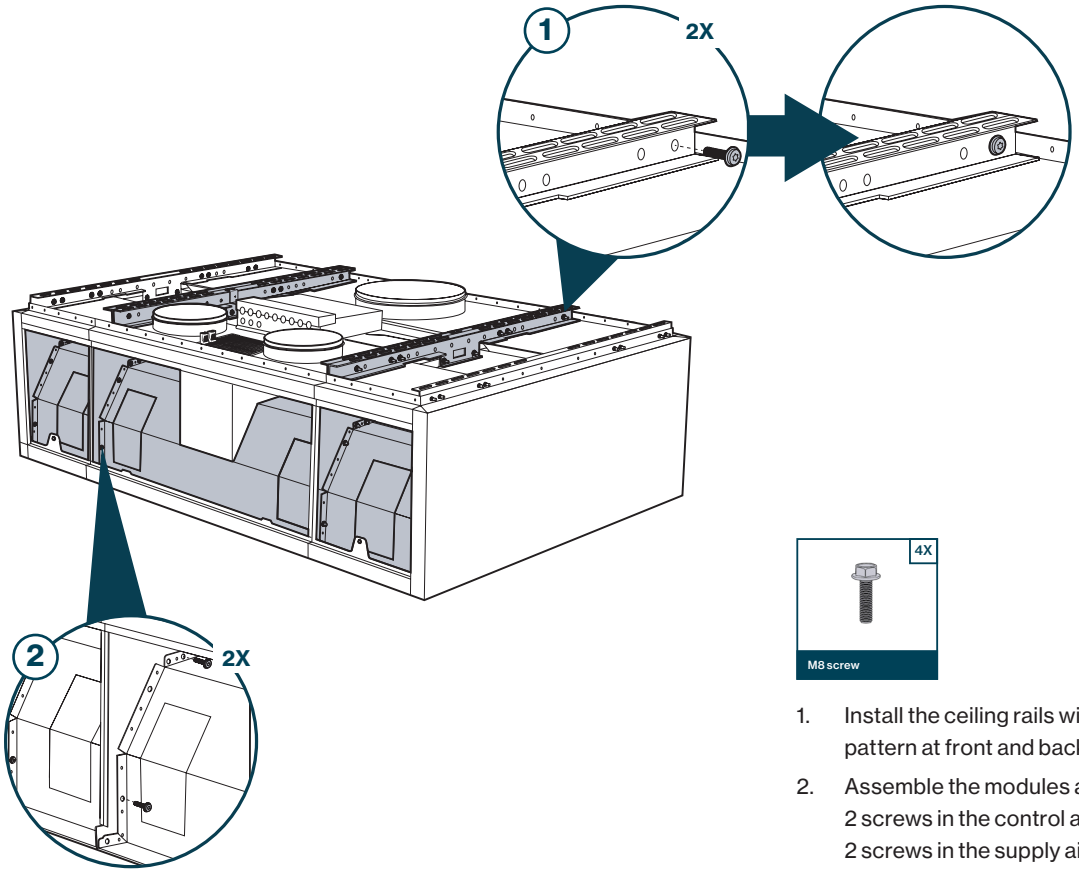
1. Lift the hood and mount it on the wall rail.
2. Lock all hooks by screwing in the locking screws.

Docking between modules



1. Open the jointed fron panel.
2. If necessary, lift off loose front panels.

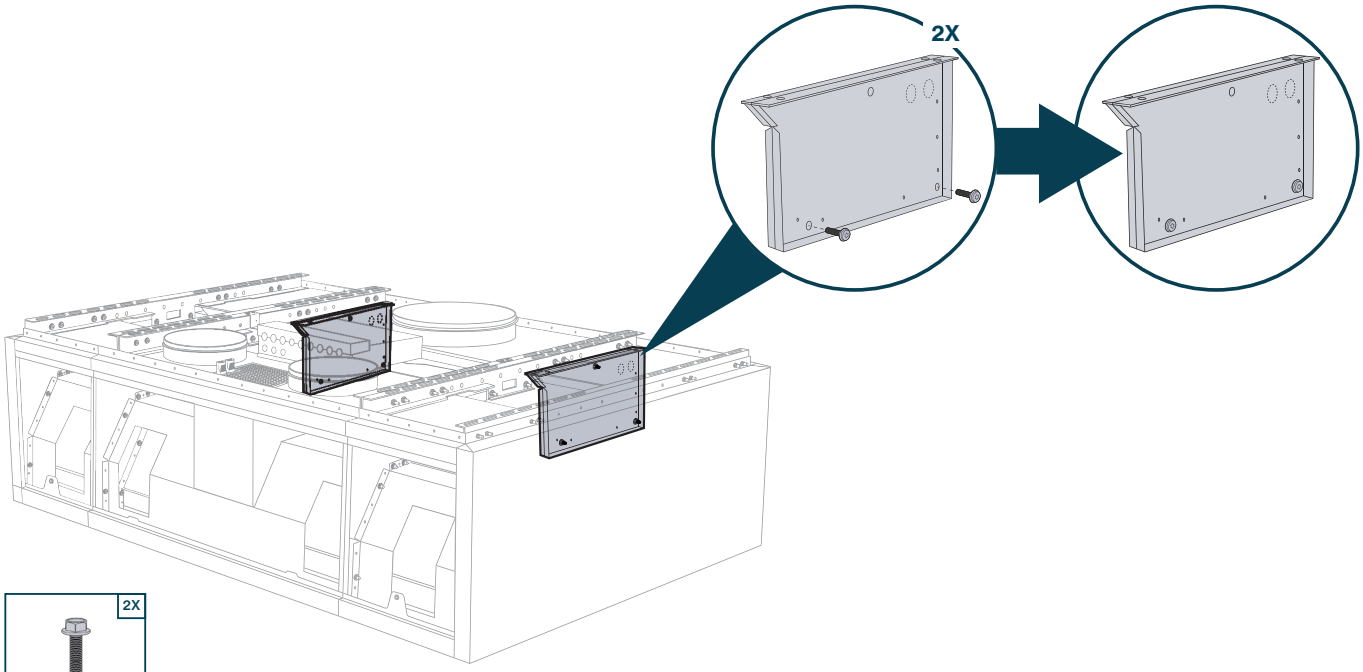
Front and ceiling sections



When mounting on a wall, use a suitable mounting screw for the wall instead

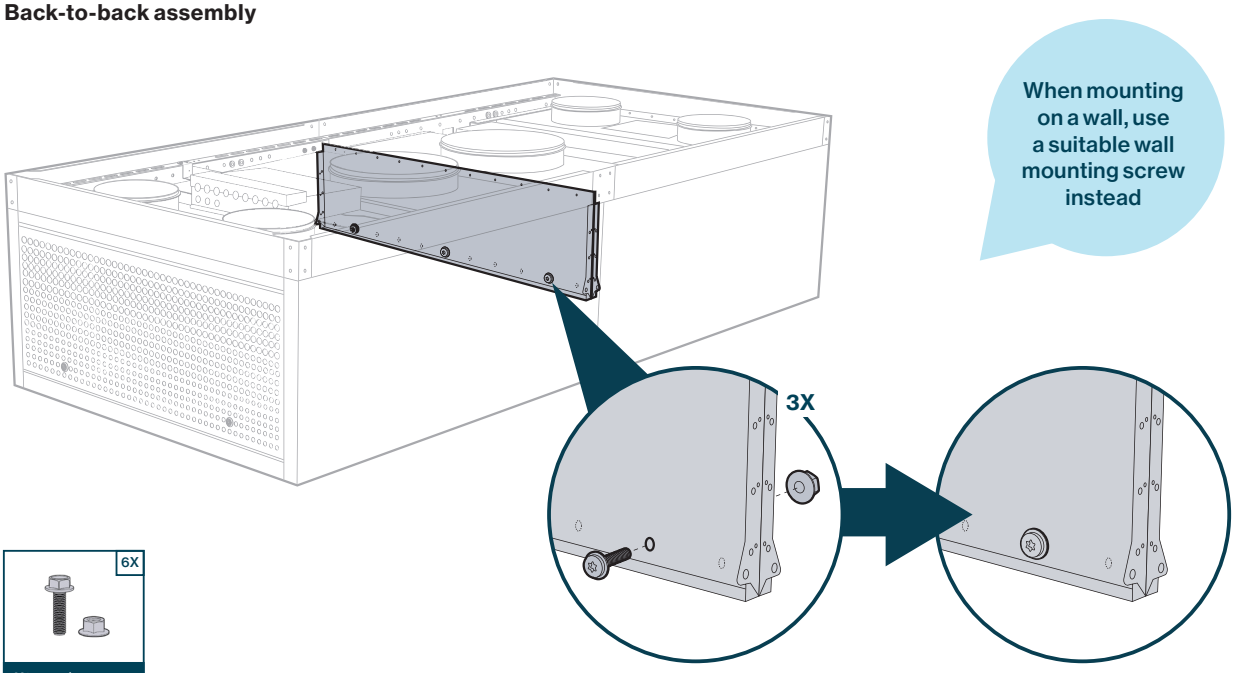
1. Install the ceiling rails with screws. Use hole pattern at front and back.
2. Assemble the modules at the front with 2 screws in the control air chamber and 2 screws in the supply air chamber/front chamber.

Rear section



1. Assemble the rear section with screws.

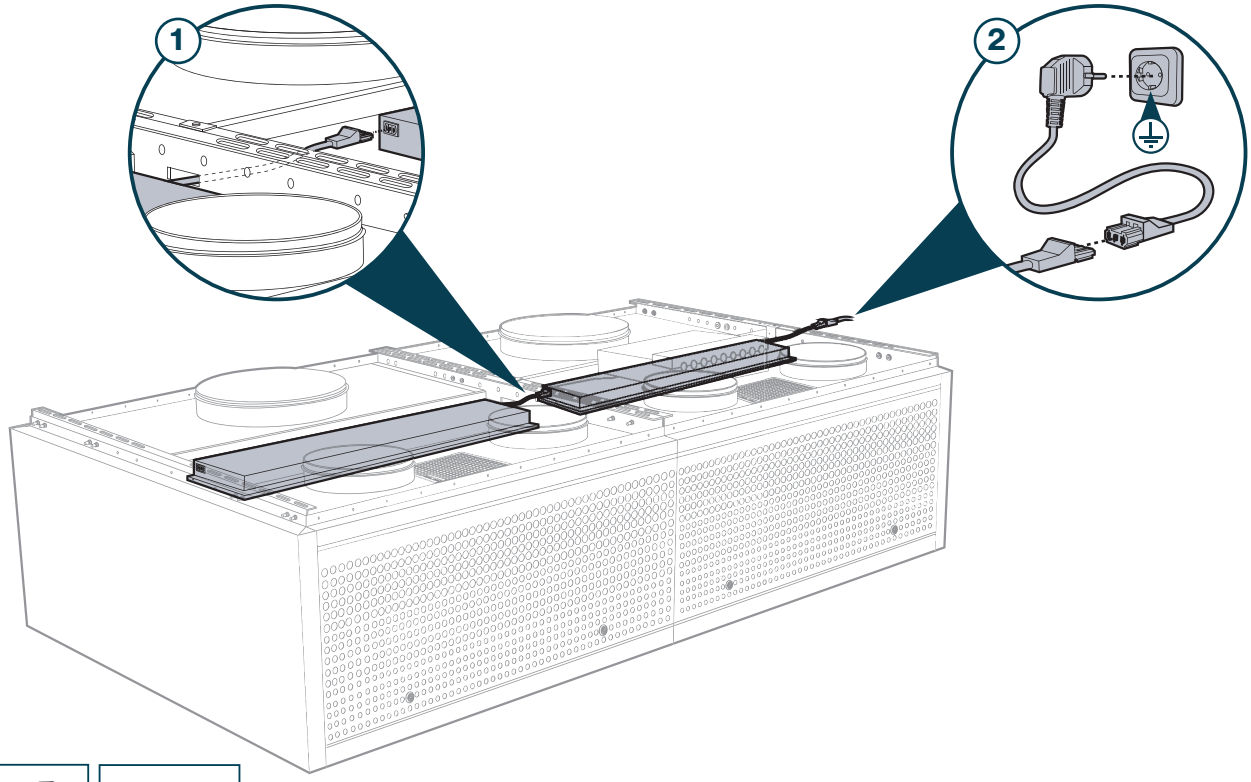
Back-to-back assembly

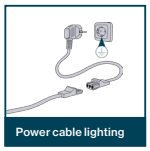


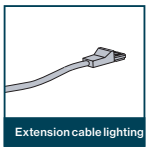
1. Punch out the hole covers in the rear section.
2. Fit M8 threaded bolts and nuts.

Installation of accessories

Lighting



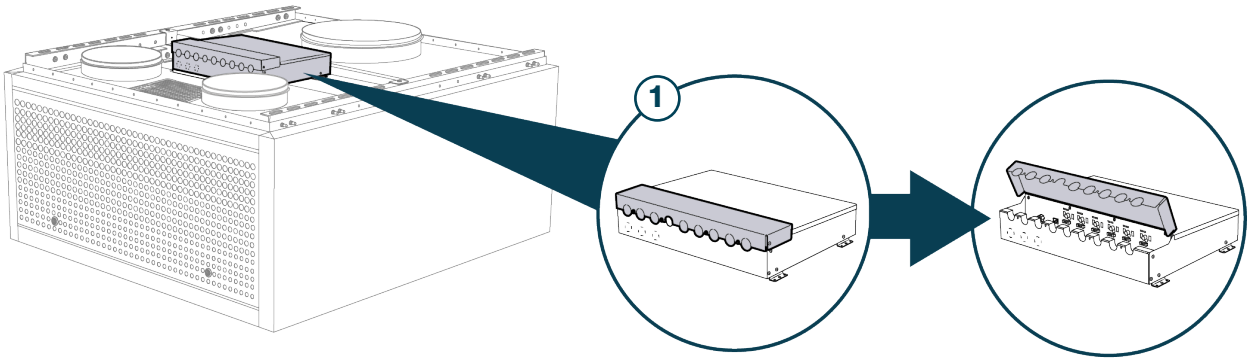

Power cable lighting


Extension cable lighting

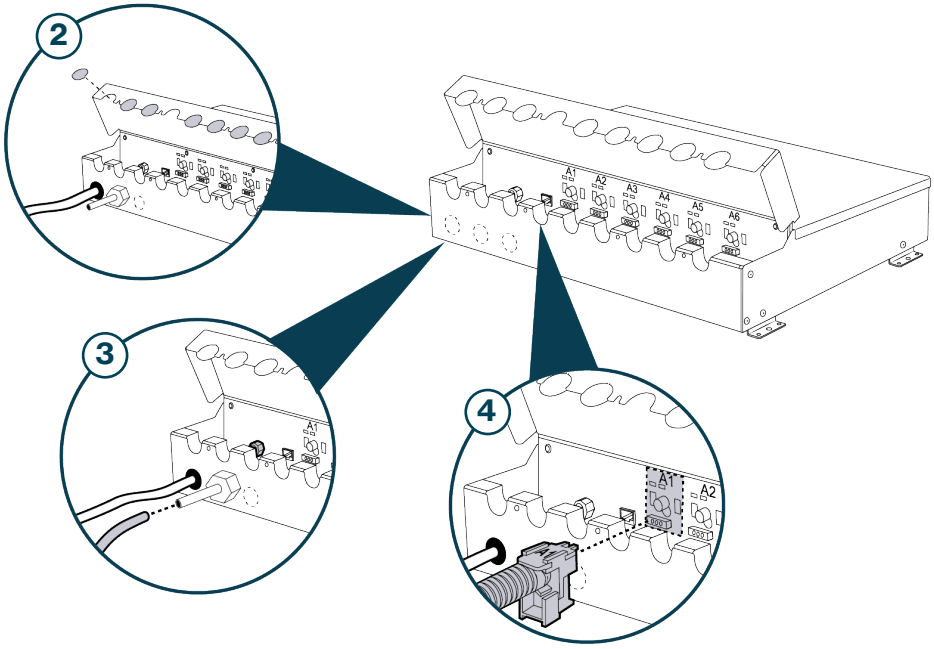
1. Connect the lights in series with quick connectors.
2. Connect the series-connected lights to the mains using the power cable suppled.

Use an extension cable when the existing cable is not sufficient.

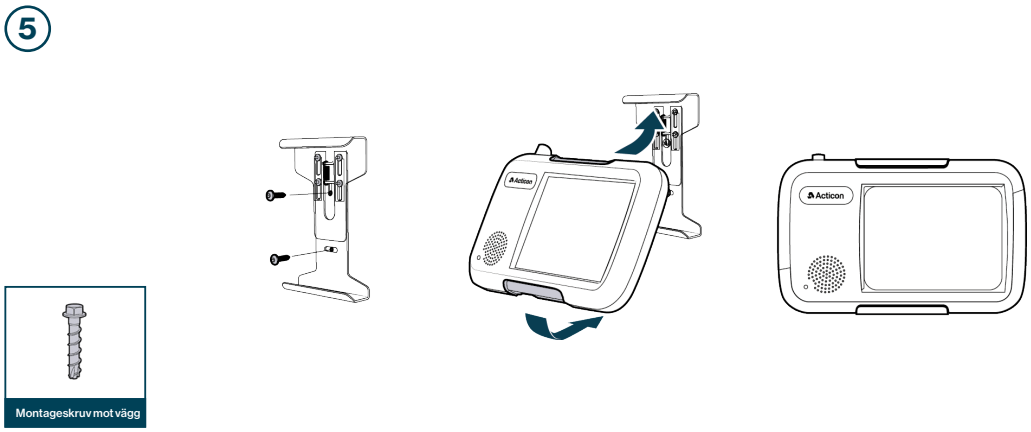
UV-Safe



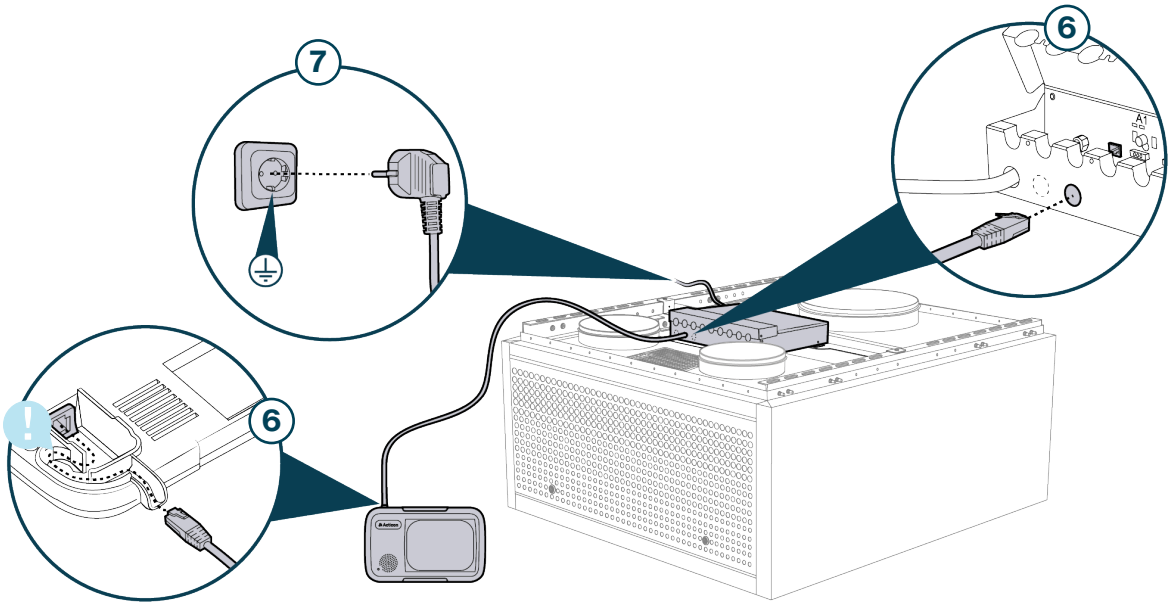
1. Loosen the top cover of the power unit.



2. Punch hole covers out for the grommets to be used.
3. Attach the pressure measurement hose to the duct and the other end to the measuring nipple of the power unit.
4. Fit measurement hose to the filter housing.



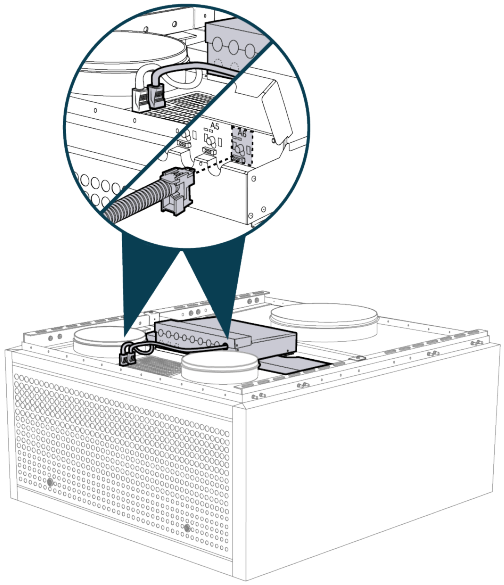
5. Mount the touch panel on the wall.



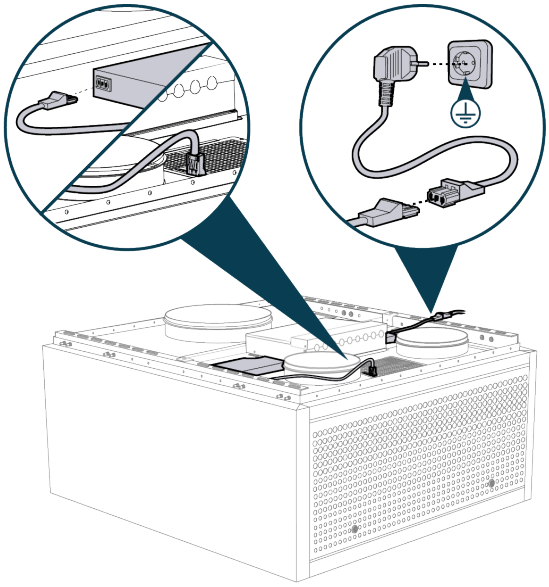
6. Connect the network cable between the touch panel and power unit. **Laying the cable according to the dotted line to prevent moisture from running into the contact is important.**
7. Plug in the power cable for the power unit.

Connection of control air fan

With UV Safe

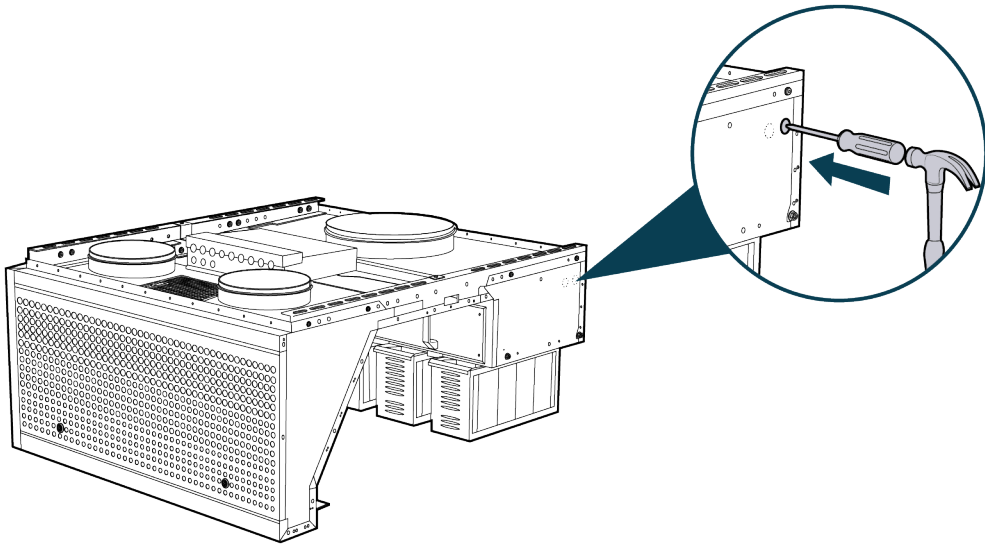


Without UV Safe

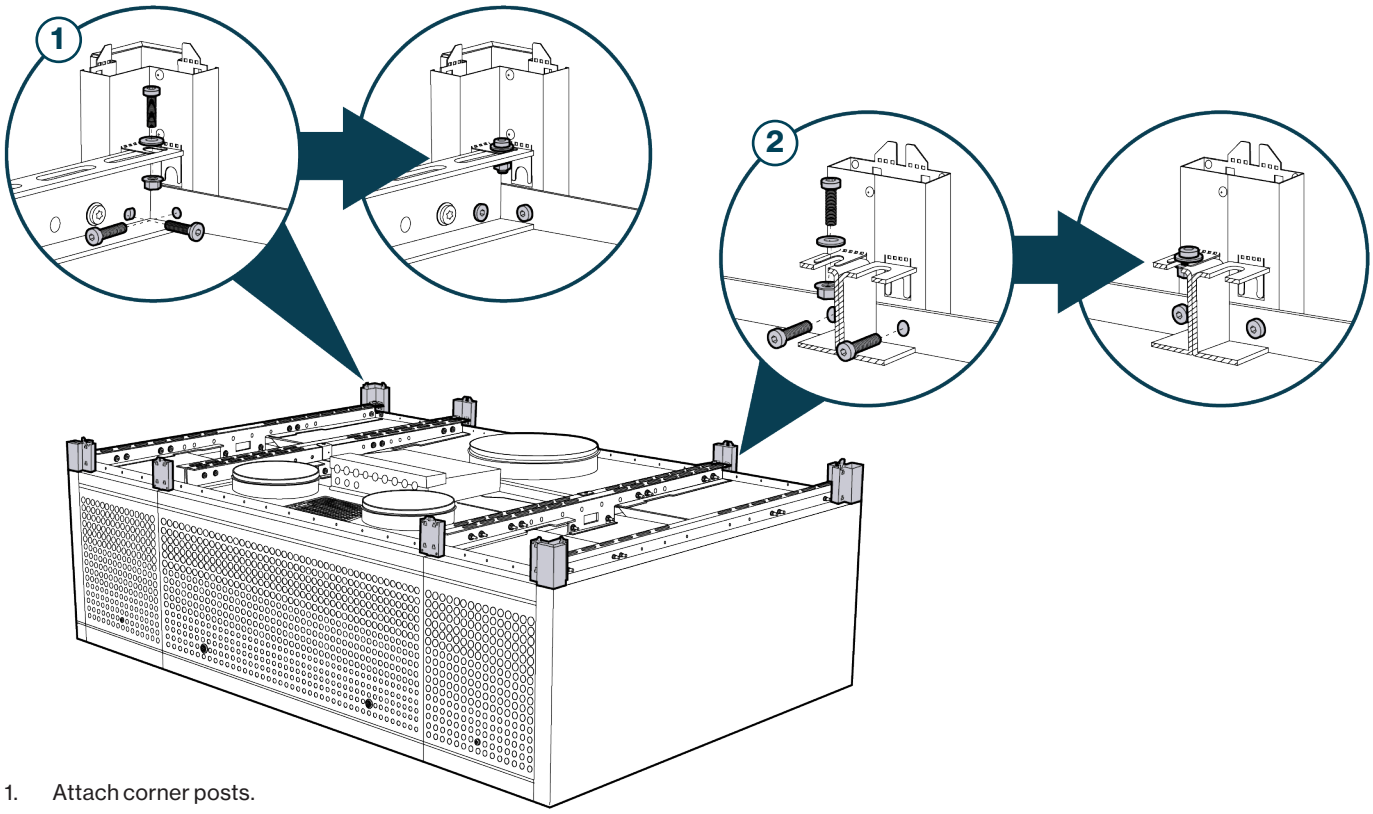


Ansulex

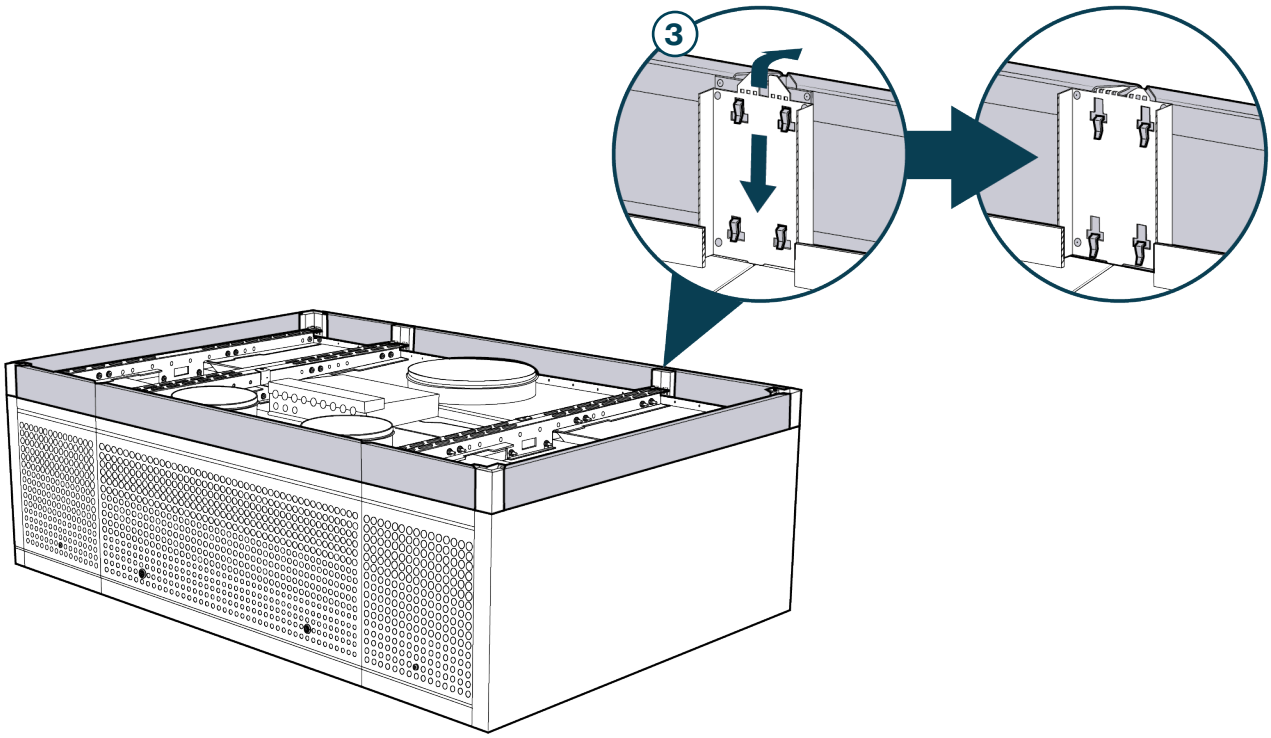
GastroFlow is prepared for the installation of Ansulex fire protection systems. Punch hole covers are provided in the rear section for ease of installation.



Installing the top panel



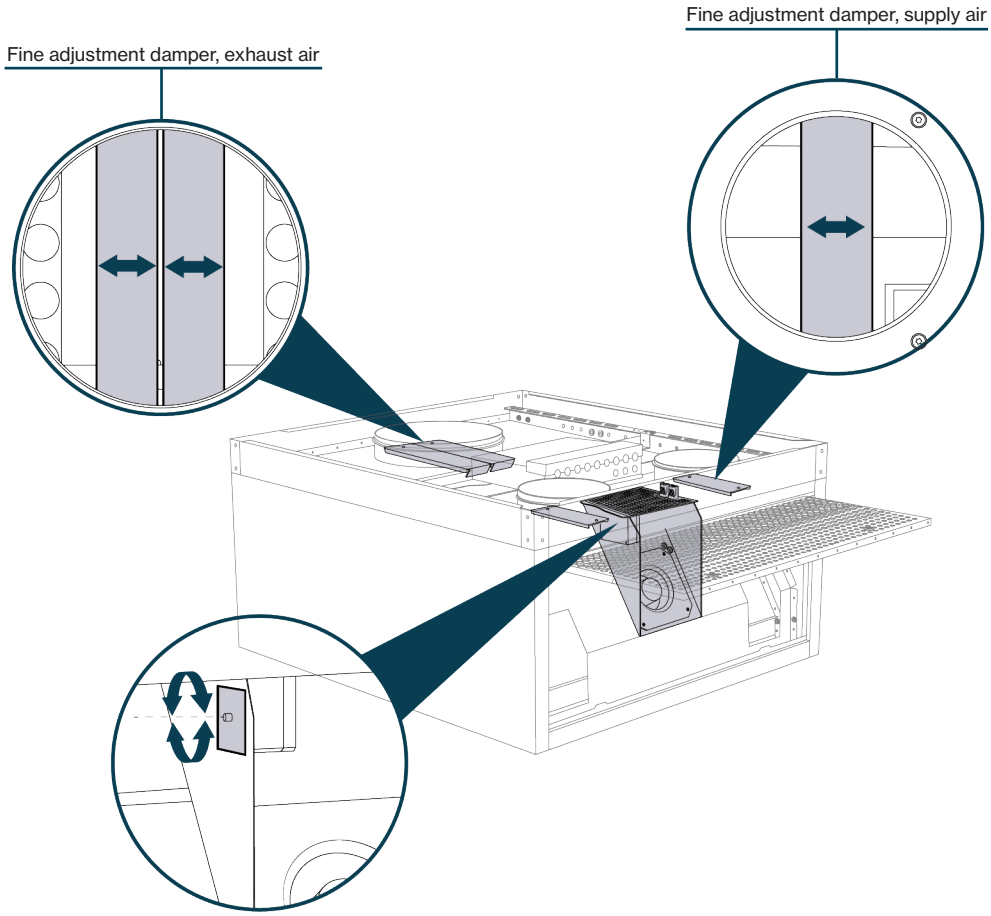
1. Attach corner posts.
2. Attach joint posts at module joints and where the upper panel meets wall.

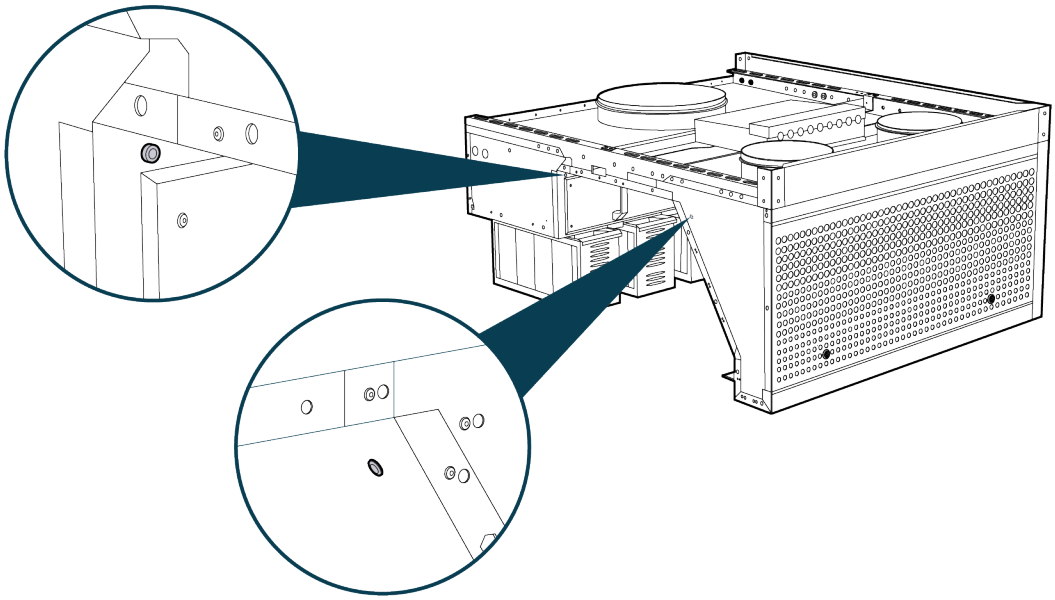


3. Hook the upper panel on to the panel posts and lock into place by folding down the locking tab.

Install the suspended ceiling when the upper panel is in place.

Commissioning





Commissioning of exhaust air

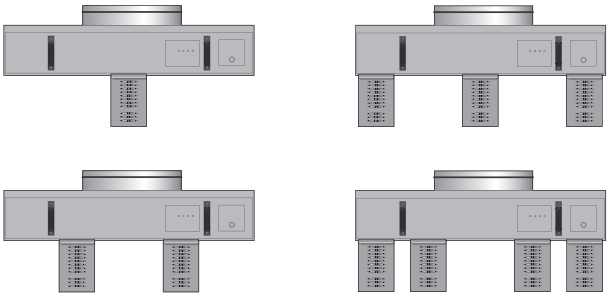
The filter housing connection for exhaust air is fitted with a lockable fine adjustment damper. All fine adjustment dampers are fully open when the hood is delivered. To adjust to another position, first loosen the screw on the damper.

All cyklone filters, knitted mesh filters and any blanking plates must be fitted in the filter housing before commissioning begins. The filter house front must be closed and locked with a key. Measure adjustment pressure in the measuring socket on the filter housing.

Configuration for 1 - 4 filter cartridges

If UV Safe is dimensioned for fewer than five filter cartridges, they should be positioned as shown below.

Unused cartridge positions should be covered with blind plates.



K-factors, exhaust air

The pressure ΔP (Pa) is measured in the current measuring socket for each filter housing. Using the K-factor, the air flow rate q (l/s) is then calculated using the following formula

$$q\ (l/s) = K \cdot \sqrt{\Delta P}$$

Number filter cartridges	K-factor
1	17,8
2	33,9
3	53,0
4	73,4
5	89,0

Control air flow

The control air is set to the correct control air flow by the factory. The control air flow rate is 5.5 l/s/m (25 Pa).

Adjust the control air flow using the knob on the outside of the control air valve. The fan's flow is set by turning the knob to the number of linear metres the fan will serve.

Supply air commissioning

The adjustment pressure ΔP (Pa) is measured at the current measuring socket for each module. Using the K-factor, the air flow rate q (l/s) is then calculated using the following formula.

$$q\ (l/s) = K \cdot \sqrt{\Delta P}$$

K-factor
41

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