

**NORD**canopy

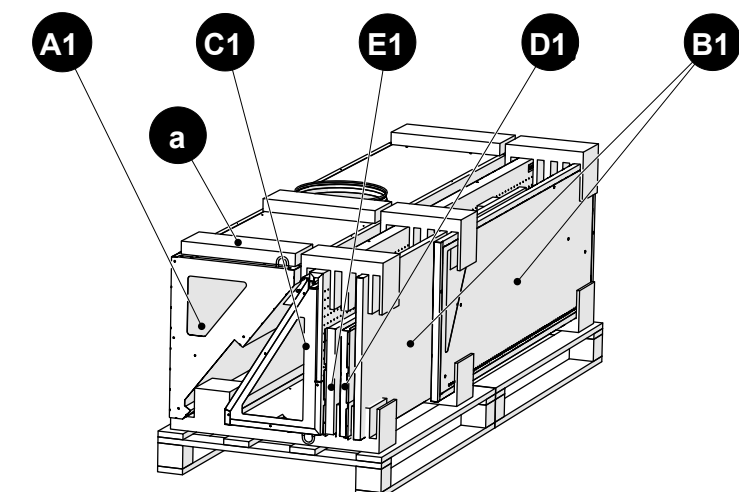
aSAP – a Self Assembly Package

Installation, use and maintenance manual

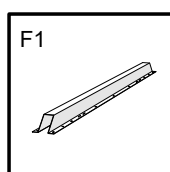
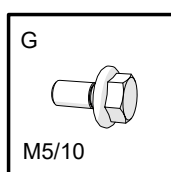
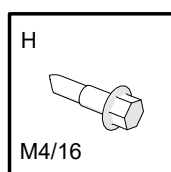
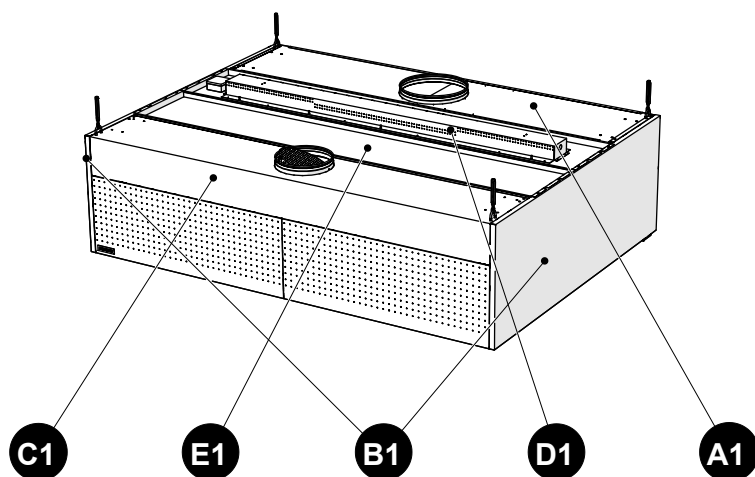
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A1 – Grease chamber  
 B1 – Side panels  
 C1 – Supply chamber  
 E1 – Ceiling panel  
 D1 – Lighting  
 a – Packaging foam



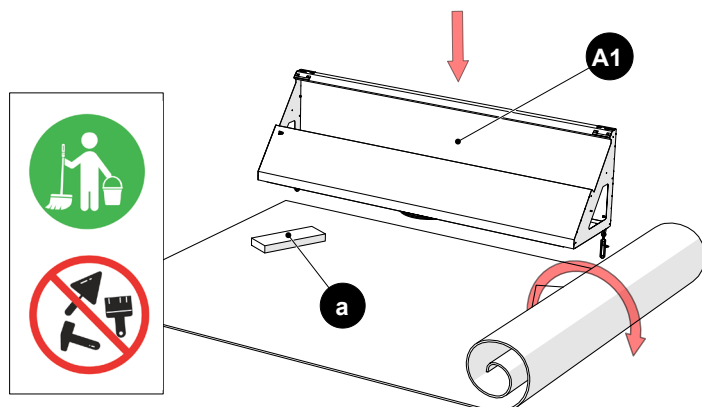
### In the kit:

H – Screws M4/16 mm  
 G – Bolts M5/10  
 F1 – Supporting beam

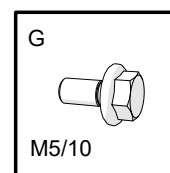
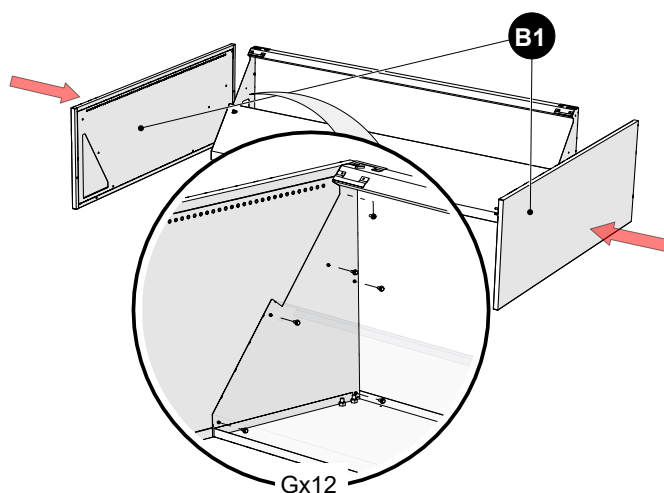
## 1. Assembling the canopy

### 1.1 Preparations

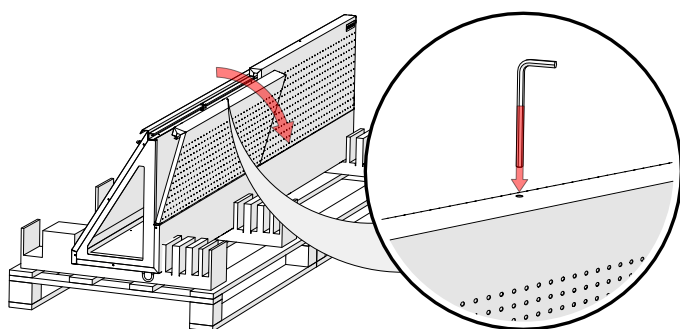
**Note! For assembly a clean surface and packaging foam piece (a) is needed**



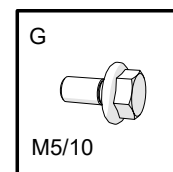
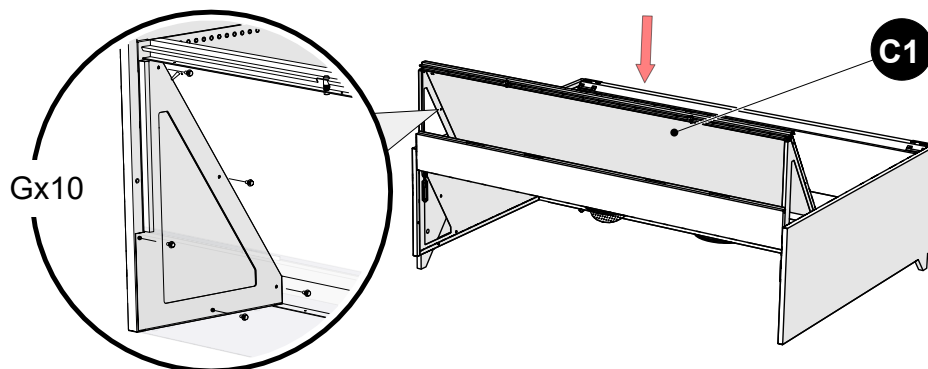
### 1.2 Connecting the side panels with grease chamber



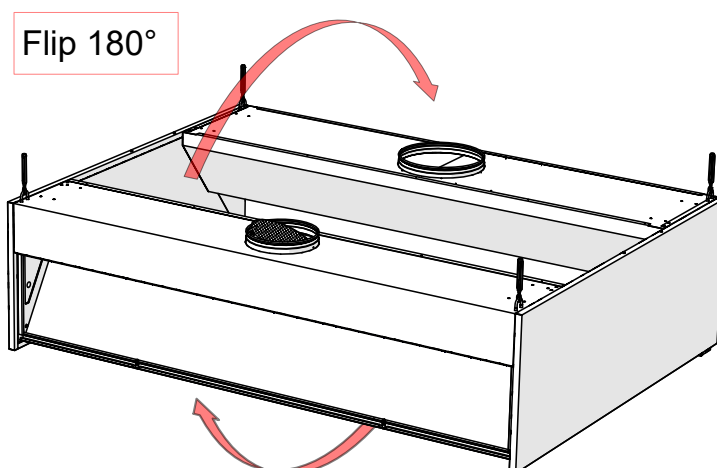
### 1.3 Removing the front panel of supply chamber



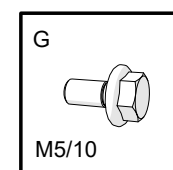
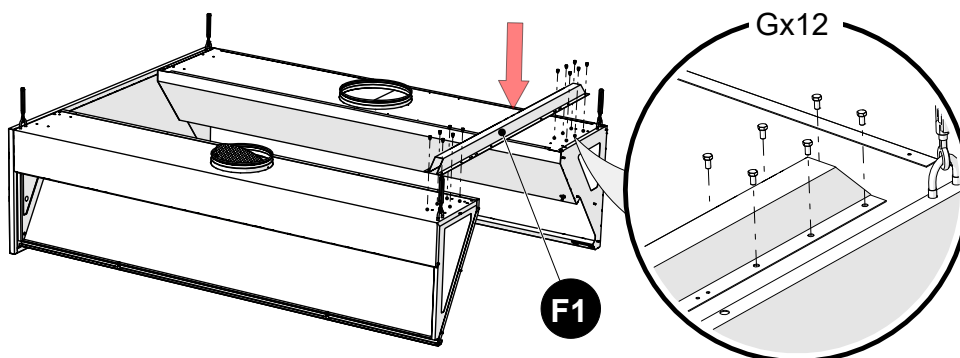
#### 1.4 Connecting the supply chamber



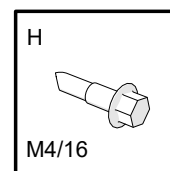
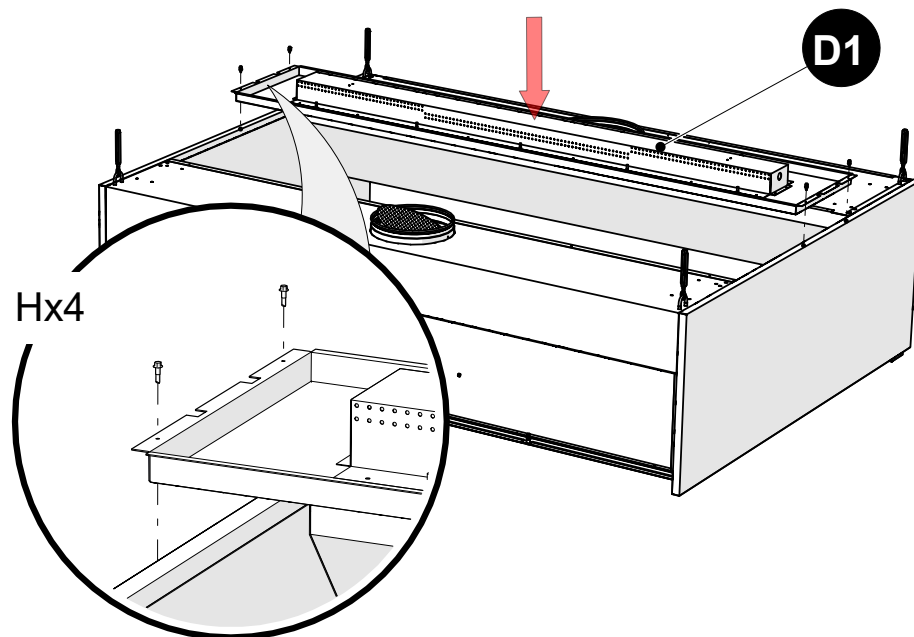
#### 1.5 Flipping the canopy



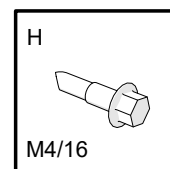
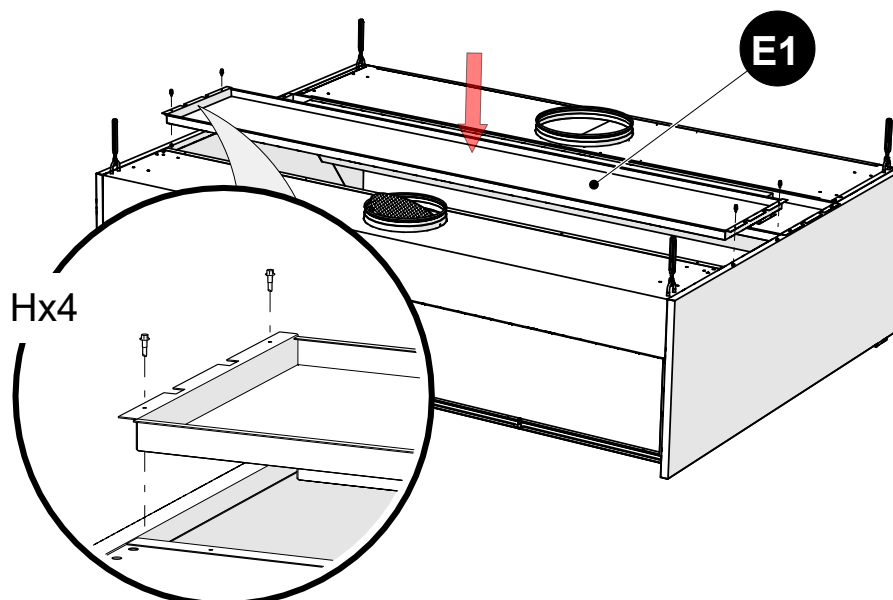
#### 1.6 Supporting the side on a modular canopy



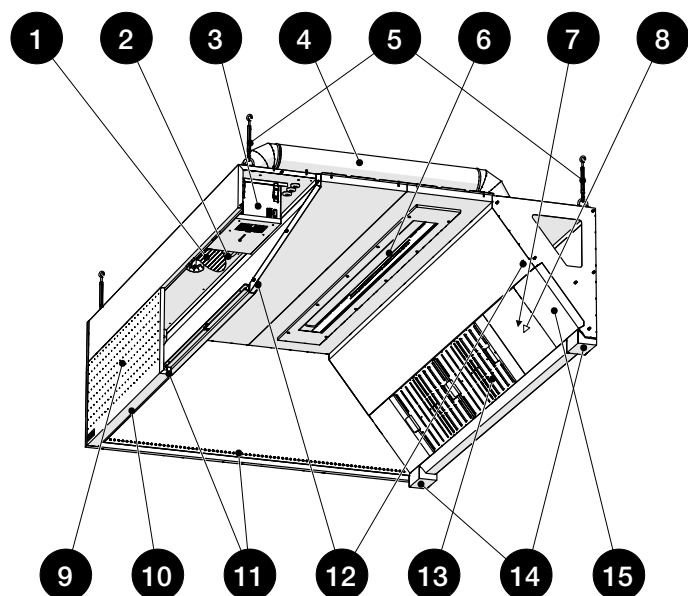
## 1.7 Assembling the lighting fixture



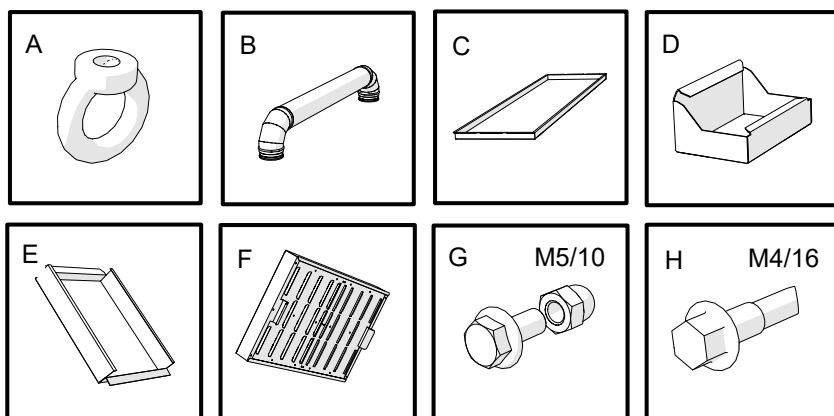
## 1.8 Assembling the ceiling panel



## 2. Canopy installation

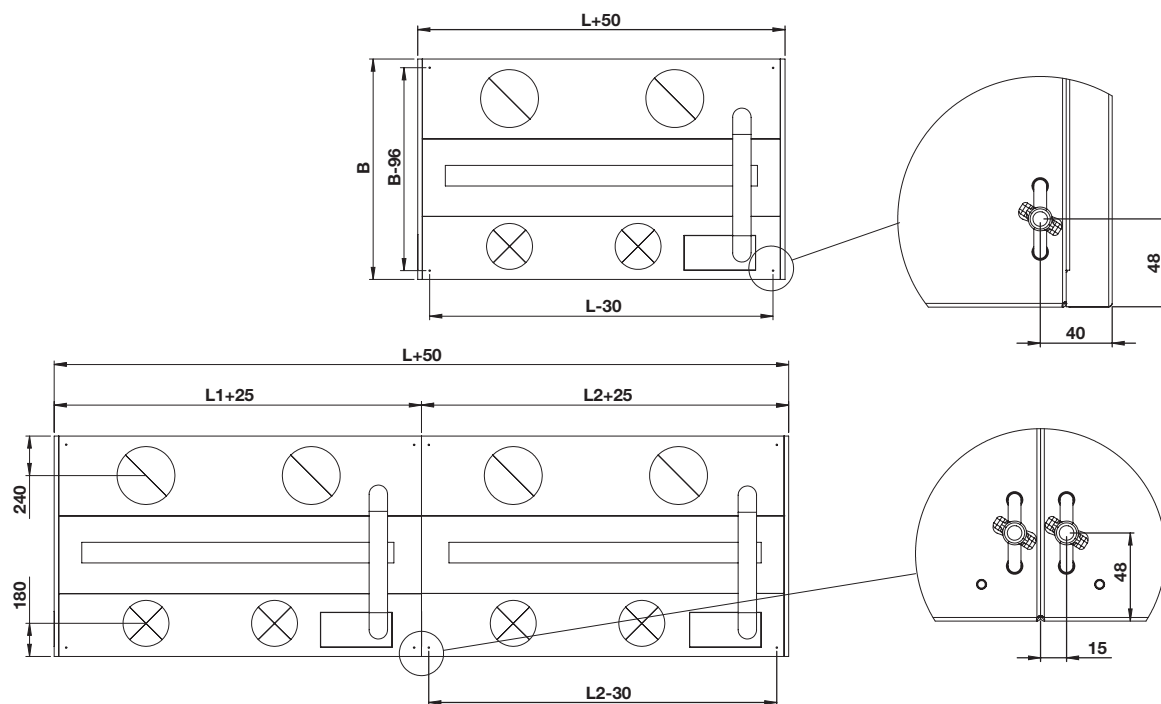


- 1- Supply air adjustment plate
- 2- Supply air connection
- 3- Ozonator
- 4- Front panel
- 5- Suspension points
- 6- Lighting
- 7- Exhaust air connection
- 8- Adjustment plate for exhaust air
- 9- Front panel
- 10- Front panel lock
- 11- "AirGrip" air nozzle system
- 12- Airflow measuring nozzles
- 13- HFK grease filter
- 14- Grease collection container
- 15- Blind plate for grease filter rail



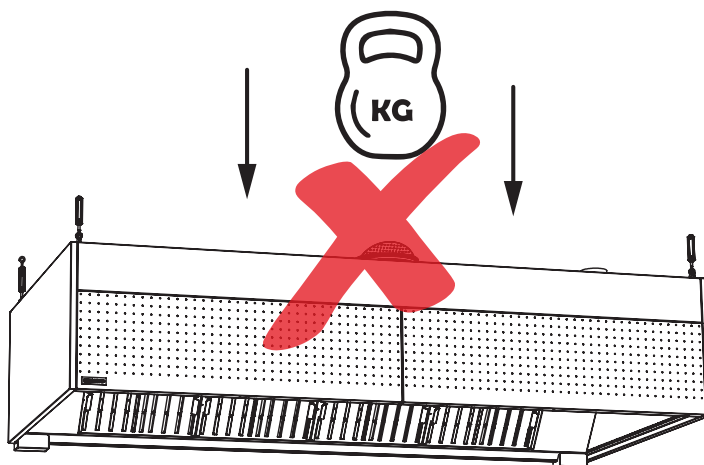
### In the kit:

- A- Loop nut
- B- Ozone duct for HZ canopy
- C- Ceiling panel for modular connection
- D- Grease collection container
- E- Blind plate for grease filter rail
- F- HFK Grease filter
- G- Bolts and cap nuts
- H- Screws



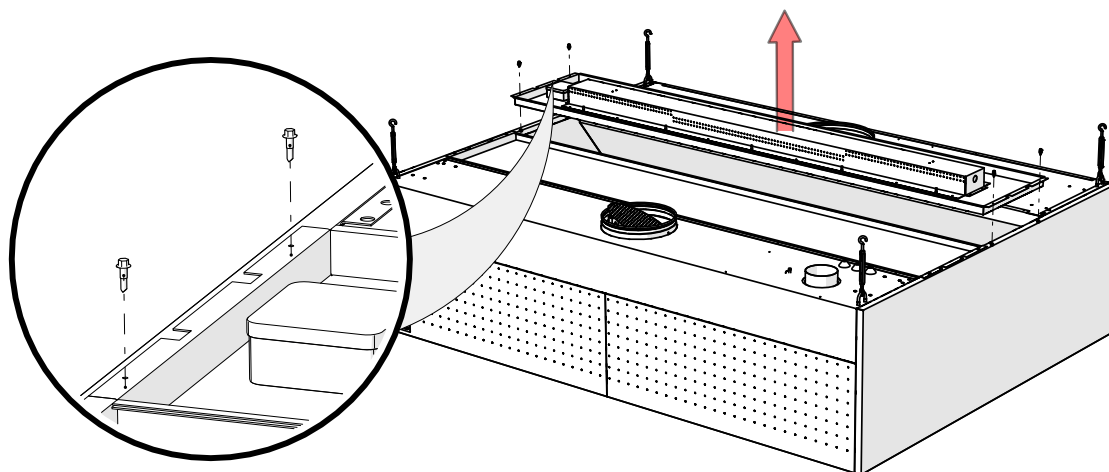
## Safety

**It is prohibited to hold or add additional weight on the top of the canopy.**

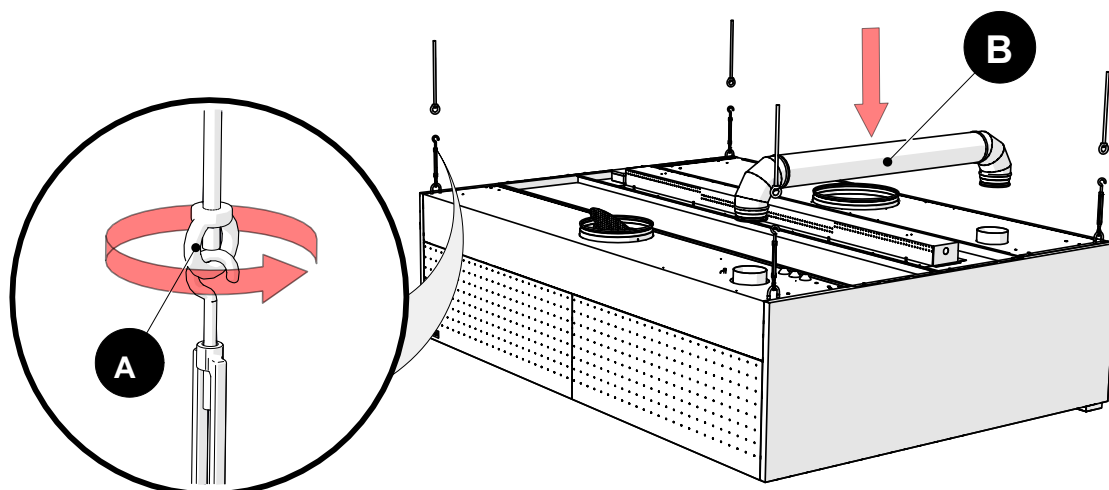


## 2.1 Removing the ceiling panel (Optional)

With larger canopies, removing the center ceiling panel can provide better access for exhaust duct and insulation installation.

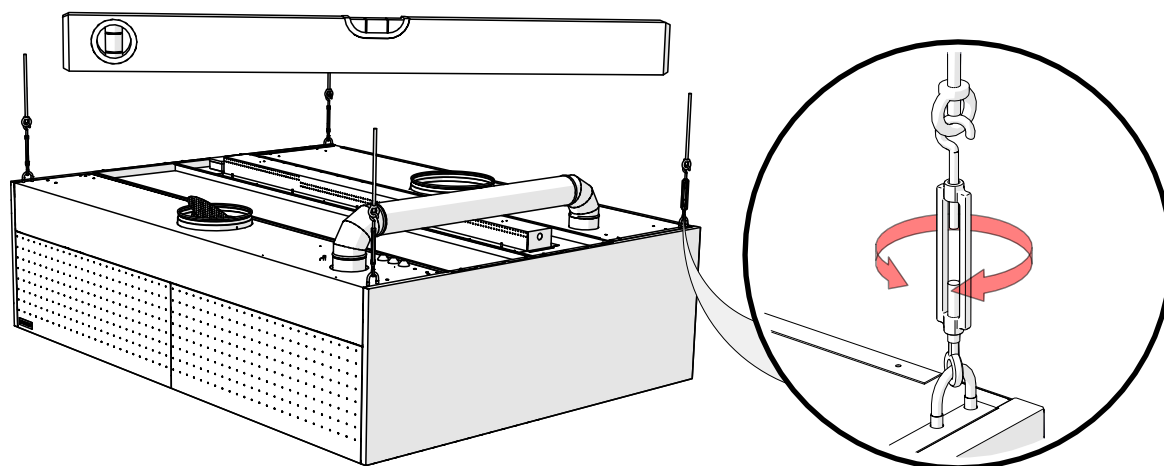


## 2.2 Hanging the kitchen canopy and ozone duct installation

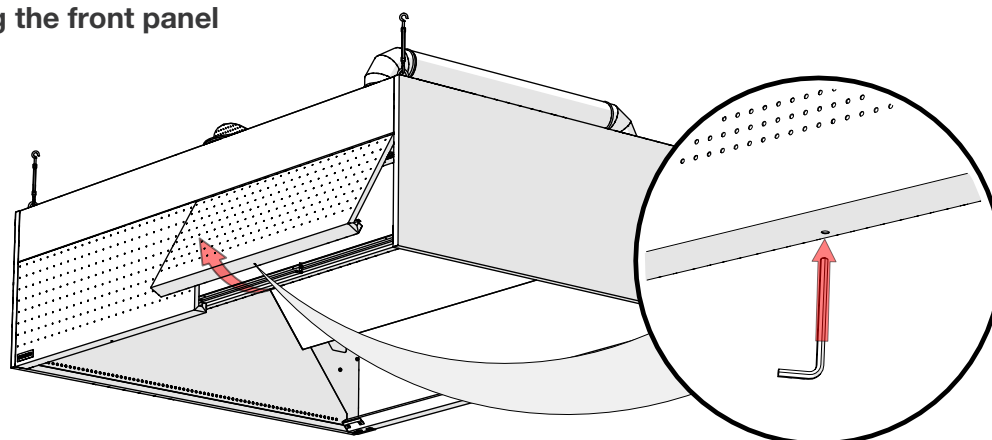


## 2.3 Leveling the canopy

Is performed for each module.



## 2.4 Opening the front panel



The panel locks automatically.

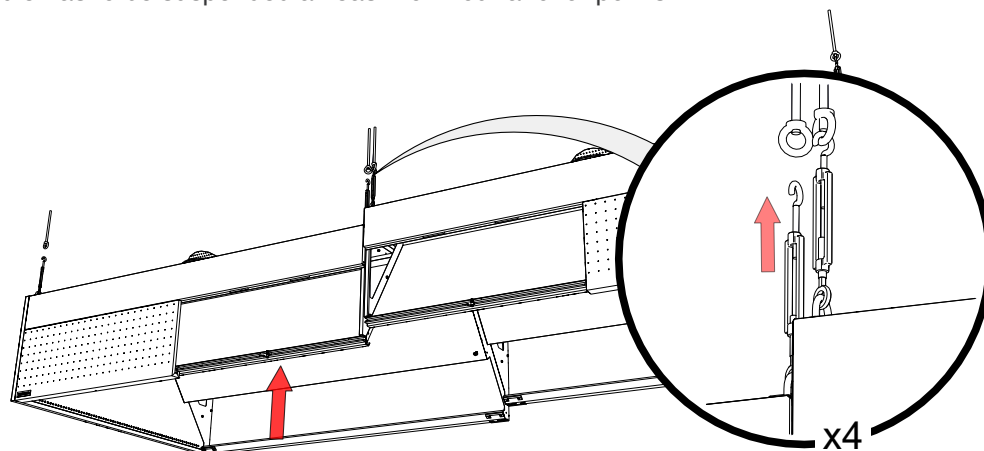
Note! At the end of the installation, make sure that the panels are correctly fixed.



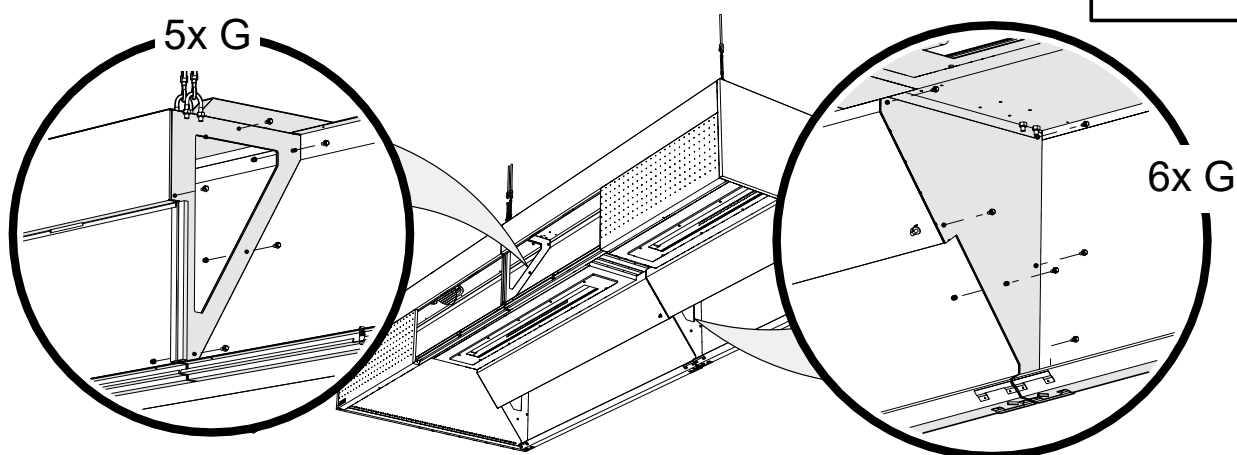
## 2.5 Fastening kitchen canopy modules together

### 2.5.1 Hanging the canopy modules

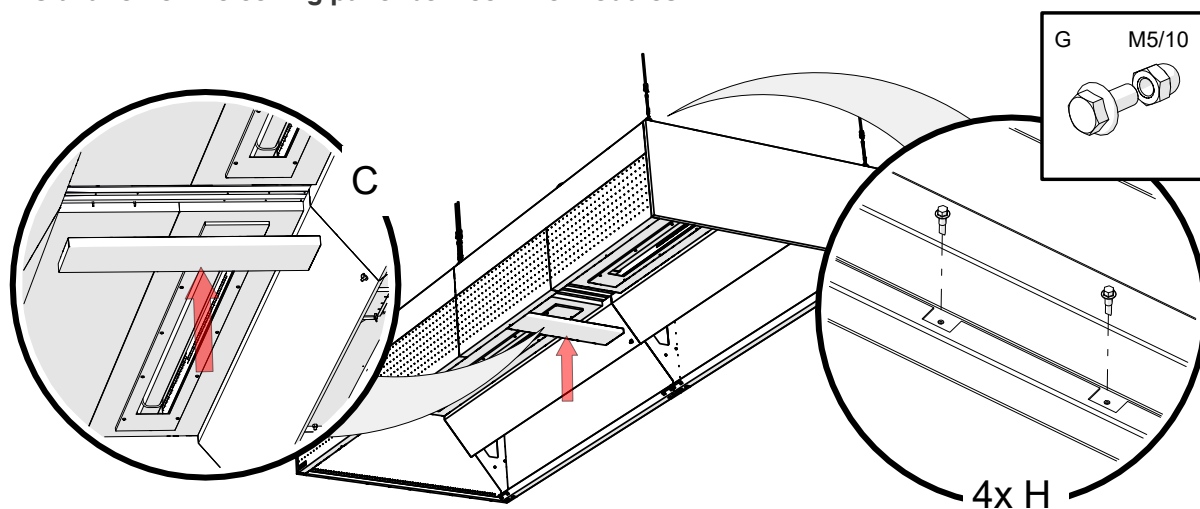
Each module has to be suspended at least from four anchor points.



### 2.5.2 Sequential connection

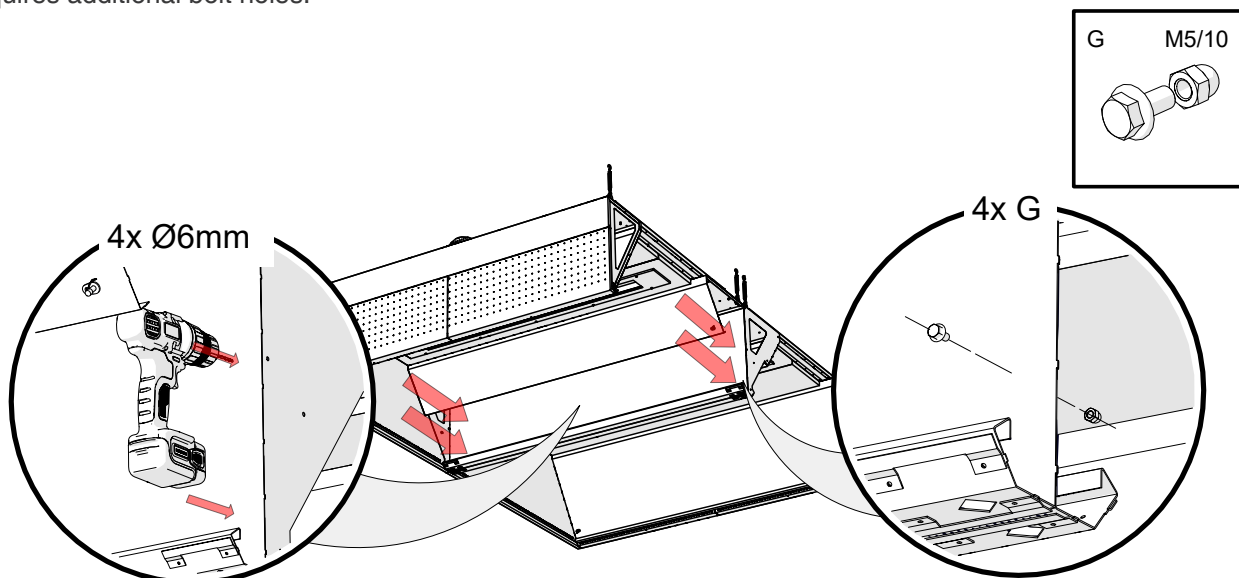


### 2.5.3 Installation of the ceiling panel between the modules

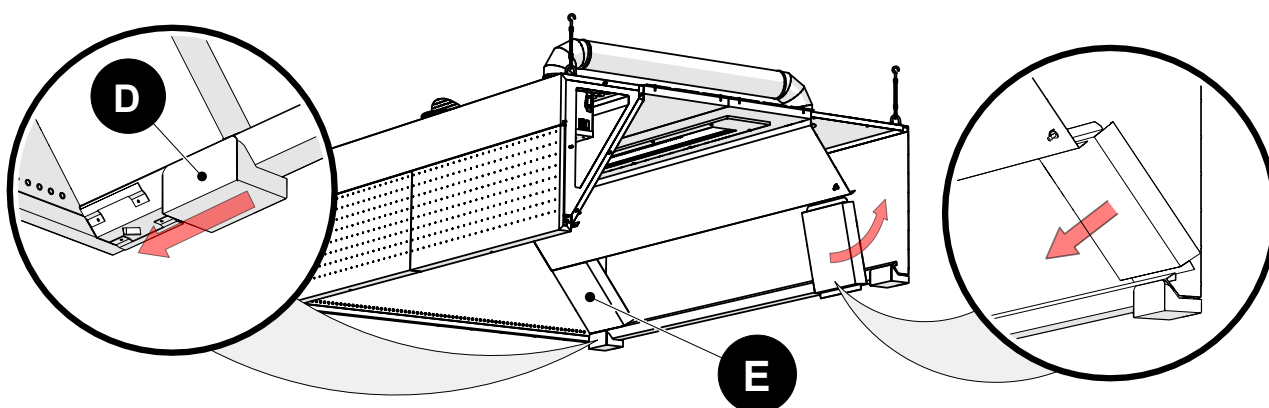


#### 2.5.4 Fastening sides back-to-back

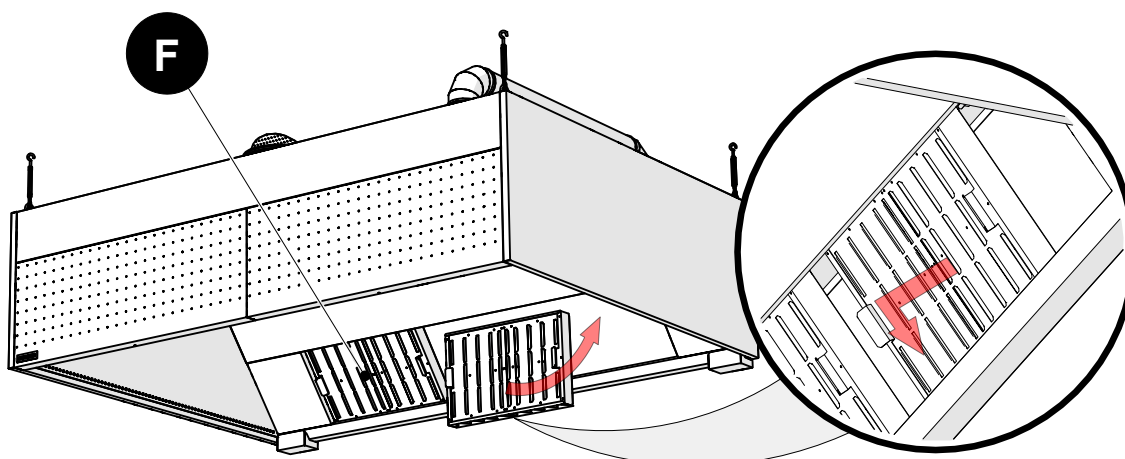
Requires additional bolt holes.



#### 2.6 Installing grease collection containers and blind panels for the grease filter rail

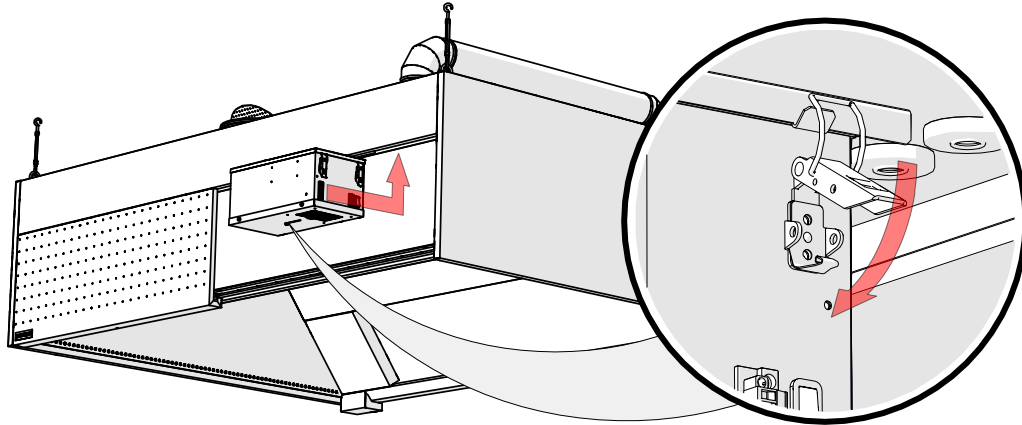


#### 2.7 Installing HFK grease filters



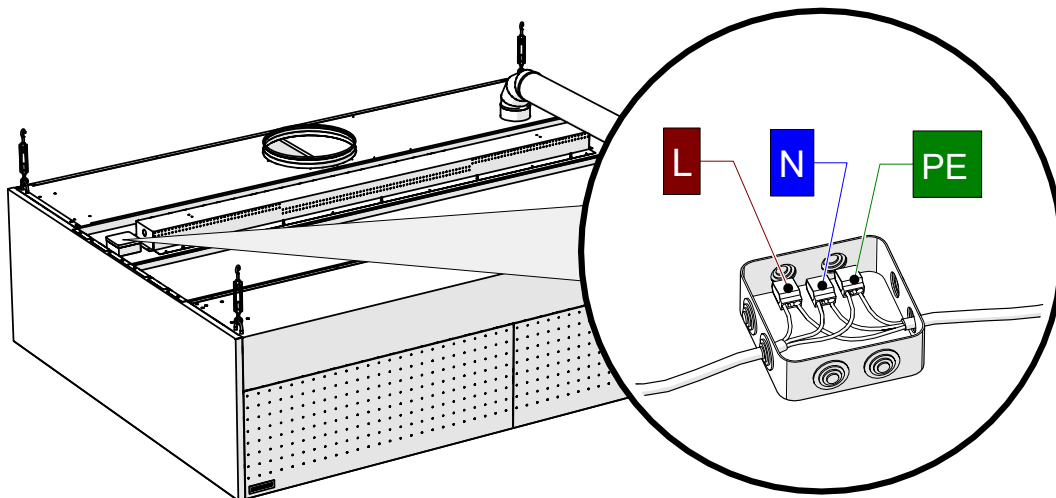
## 2.8 Installing the ozonator

Connecting and starting the ozonator is described in the "Ozonator Installation and Maintenance Manual".



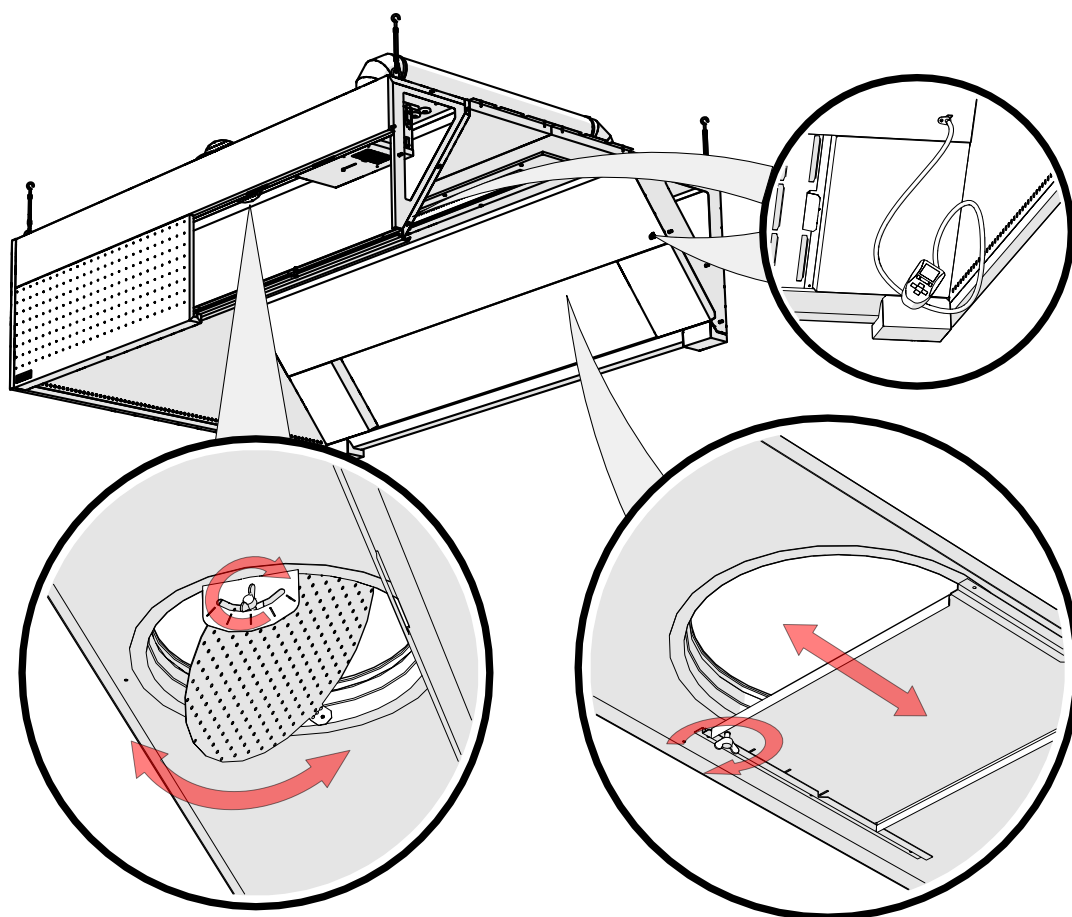
## 2.9 Lighting connection

**Note! PERFORMED BY ELECTRICIAN**



### 3. Measuring and adjusting airflow

NORDcanopy canopies are fitted with measuring nozzles located inside the canopy.



ATTN! During measurement, HFK all grease filters and blind plates must be in place and the front panel must be closed.

In order to adjust supply airflow, the position of the adjusting plate located in the supply chamber is adjusted.

The exhaust airflow adjustment plate is located behind the HFK grease filters. Lock the adjustment plate in place using the butterfly nuts!

#### K-factor for measuring airflow

- Exhaust K-factor = 16,6 (per 1 filter)

$$Q_v = k \sqrt{\Delta p_m}$$

Supply air	K-factor, per 1 m of front panel				
	SPx0	SPx1	SPx2	SPx3	SPxK
Front panel*	-	19,2	32,3	50,4	-
AirGrip	2,4	-	-	-	-
Side panel*	-	-	-	-	6,6

\* The supply panel k-factors above include the "AirGrip" air capture system K-factor.

\* If the side panel has perforation, add the side panel k-value to the front panel k-value.

**Calculation example:**

Supply air canopy L=2 meter with SPx2 front panel.

**Calculation of the supply air volume:**

Pressure in the supply air chamber is 26 Pa

Front panel SPx2 k-factor is 32,3

$$Q_s = 2 \times 32,3 \times \sqrt{26} = 330 \text{ l/s}$$

**Calculation of the exhaust air volume:**

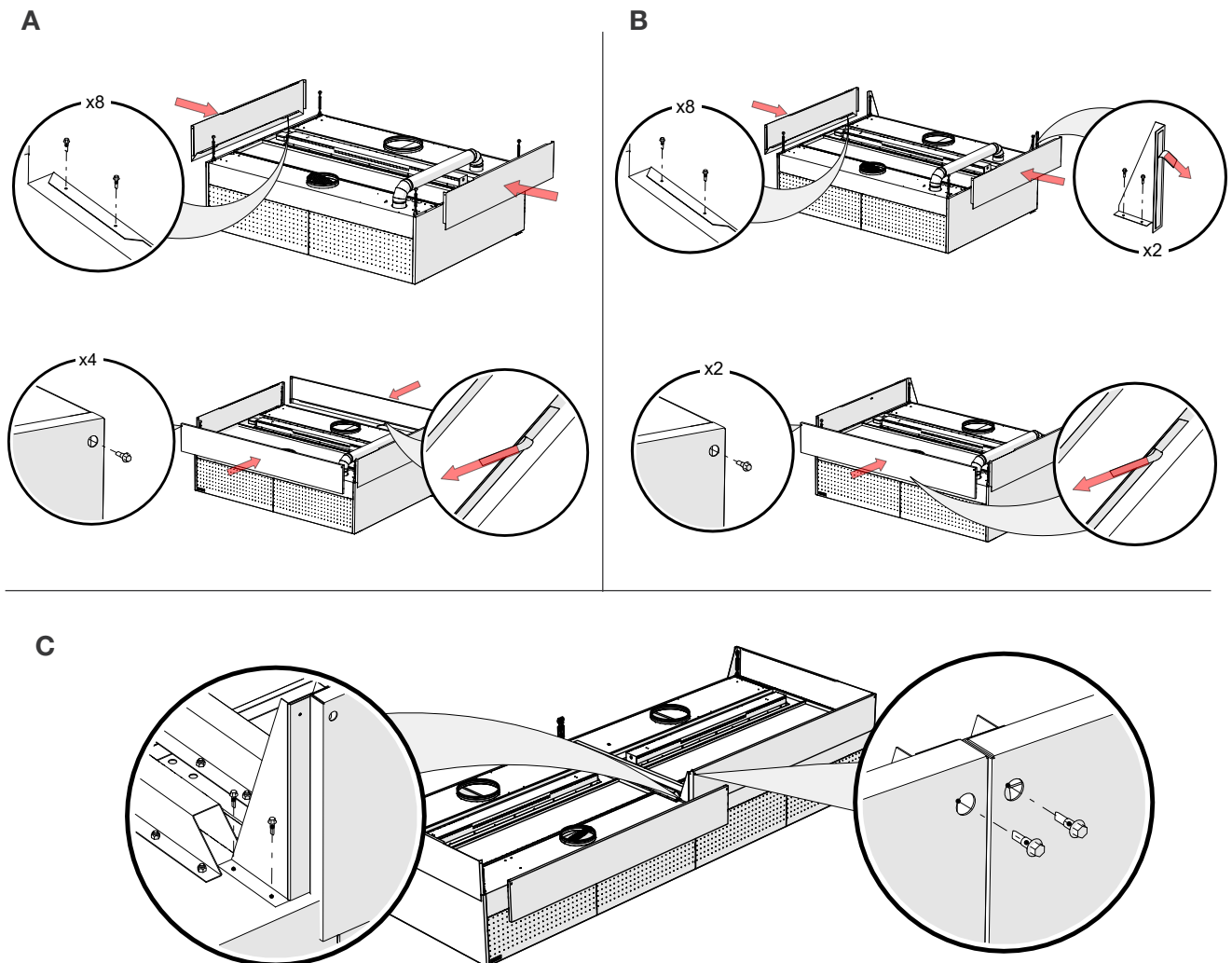
Pressure in the exhaust air chamber is 22 Pa

4 x HFK grease filter k-factor is 22,3

$$Q_e = 4 \times 22,3 \times \sqrt{22} = 420 \text{ l/s}$$

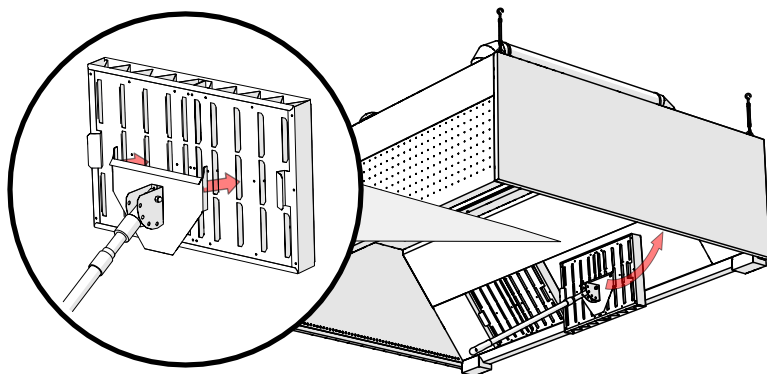
## 4. Accessories

### 4.1 Installation of cover plates



## 4.2 Grease filter removal tool

Use the Helping Hand filter tool for easy filter handling.



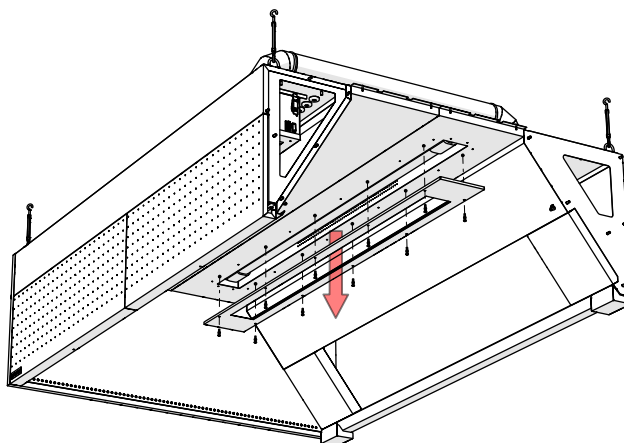
## 4.3 Replacing the luminaires

### 4.3.1 Luminaires

NORDcanopy kitchen canopys use integrated light fixtures with protection class IP 66. All luminaires are fitted with a power cable (3x1.5 mm, length 1,5 m) and a junction box.

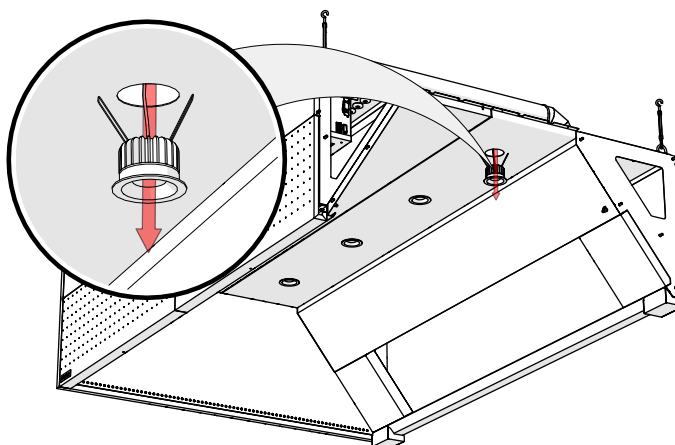
To remove luminaires, fastening screws of the protective glass are unfastened and the glass is removed.

**Note! PERFORMED BY ELECTRICIAN**



### 4.3.2 Spot LED lighting

Spot LED lighting is fastened with spring clips on the top surface of the canopy ceiling. For replacing the luminaire, it should be pulled downward from the canopy ceiling.



## 5. Kitchen canopy maintenance

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### **DEPENDING ON THE FREQUENCY OF KITCHEN MAINTENANCE**

All internal and external surfaces of the kitchen canopy, including light fixtures, are cleaned using neutral cleaning agents. Carefully rinse the surfaces after cleaning, in order to avoid harmful interactions of cleaning agents and high temperatures. To clean the exhaust chamber, HFK filters and grease collection containers are removed from the kitchen canopy. To clean the supply chamber, the front panel of the kitchen canopy is removed.

ATTN! Do not use hard or abrasive detergents, chlorine or bleach when cleaning the canopy!

Never clean the kitchen canopy when any of its surfaces are hot.

The ozonator must never have any exposure to moisture!

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### **DAILY**

To clean HFK grease filters they must be removed from the kitchen canopy. Grease collection containers are removed and emptied. Both items may be washed by hand, in a dishwasher, or steam-cleaned.

Liquid grease must always be disposed of using methods approved according to local regulations.

ATTN! Grease collection containers must be inspected regularly and emptied if necessary.

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