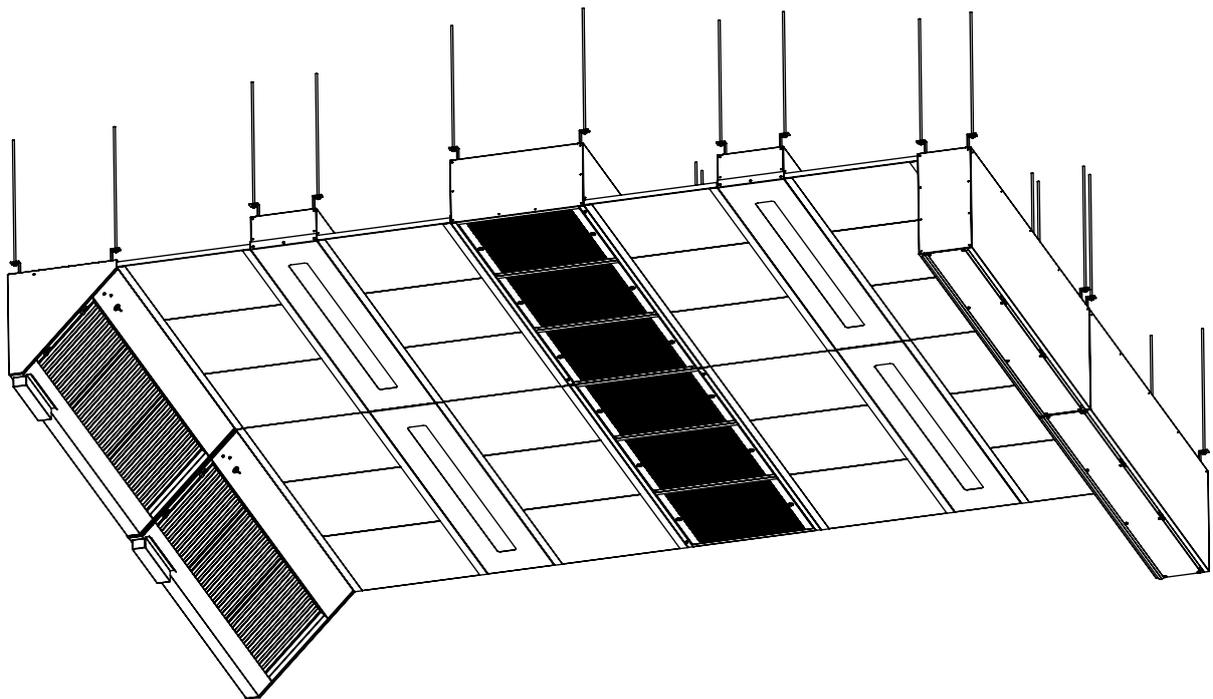




CleanMaster and StandardPlus Ceiling ventilation

Installation and adjustment
instructions

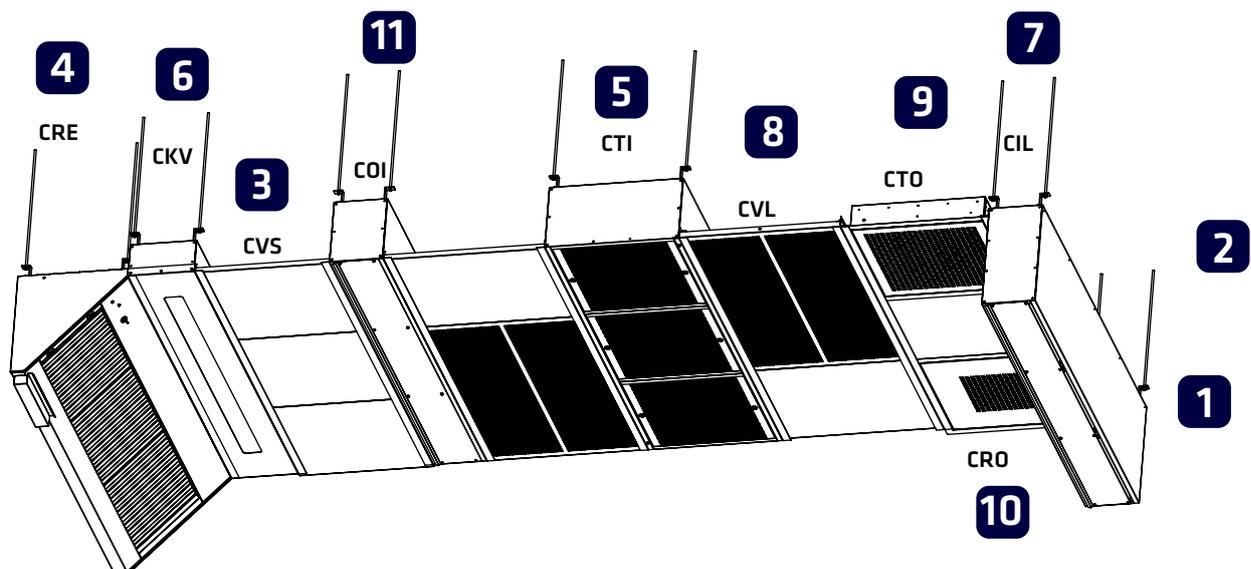


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Note! Only for professional installer. Use safety ANTI-CUT gloves at all times.

Principle for the installation



1. Mounting point (Z mount)
2. Threaded rod
3. Ceiling panel (CVS)
4. Exhaust air unit (CRE)
5. Supply air unit (CTI)
6. Light (CKV)
7. Air curtain (CIL)
8. CVL dampening panel
9. CTO supply air device
10. CRO exhaust air unit
11. COI supply and capture air unit

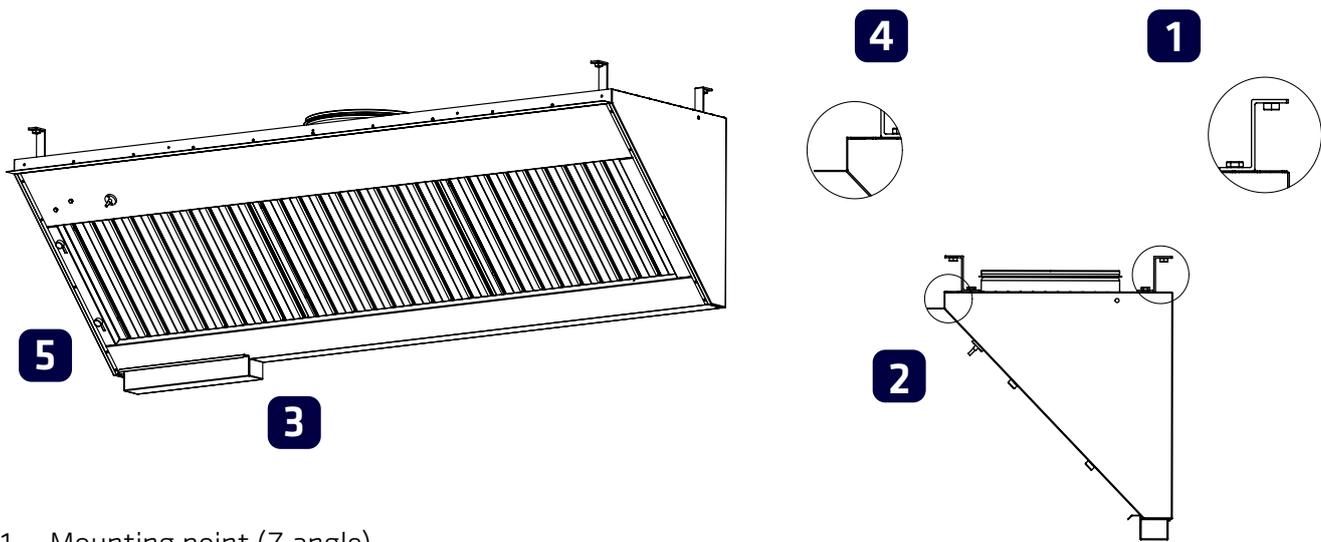
Installation principle

1. Carefully mark the positions of the units to the ceiling according to the design.
2. Install the threaded rods in positions marked on the ceiling (threaded rods are not included in delivery).
3. Attach the Z mounts to the devices.
4. Lift the devices steadily up from the corners and attach the threaded rods to Z mounts at a suitable height.
5. Check that the devices are at the positions indicated in the design.
6. Install the T and L -profiles to positions indicated in the design, such as by suspending the strips from the ceiling on threaded rods or by mounting to the wall.

Order of installation	Delivery
1. Exhaust air devices CRE, CRO	According to the design
2. Other devices CTI, COI, CIL, CTO and CKV	According to the design
3. T and L mounting strips	In 3m profiles
4. Ceiling panels CVL, CVS	According to the design or in preset dimensions*

*When ordering the ceiling panels in preset dimensions, the delivery time is 3 weeks from the order

CRE exhaust air device



1. Mounting point (Z angle)
2. Sized connection (k values next to the point)
3. Grease collection container
4. L-profile (separate by default)
5. Locking mechanism of filters

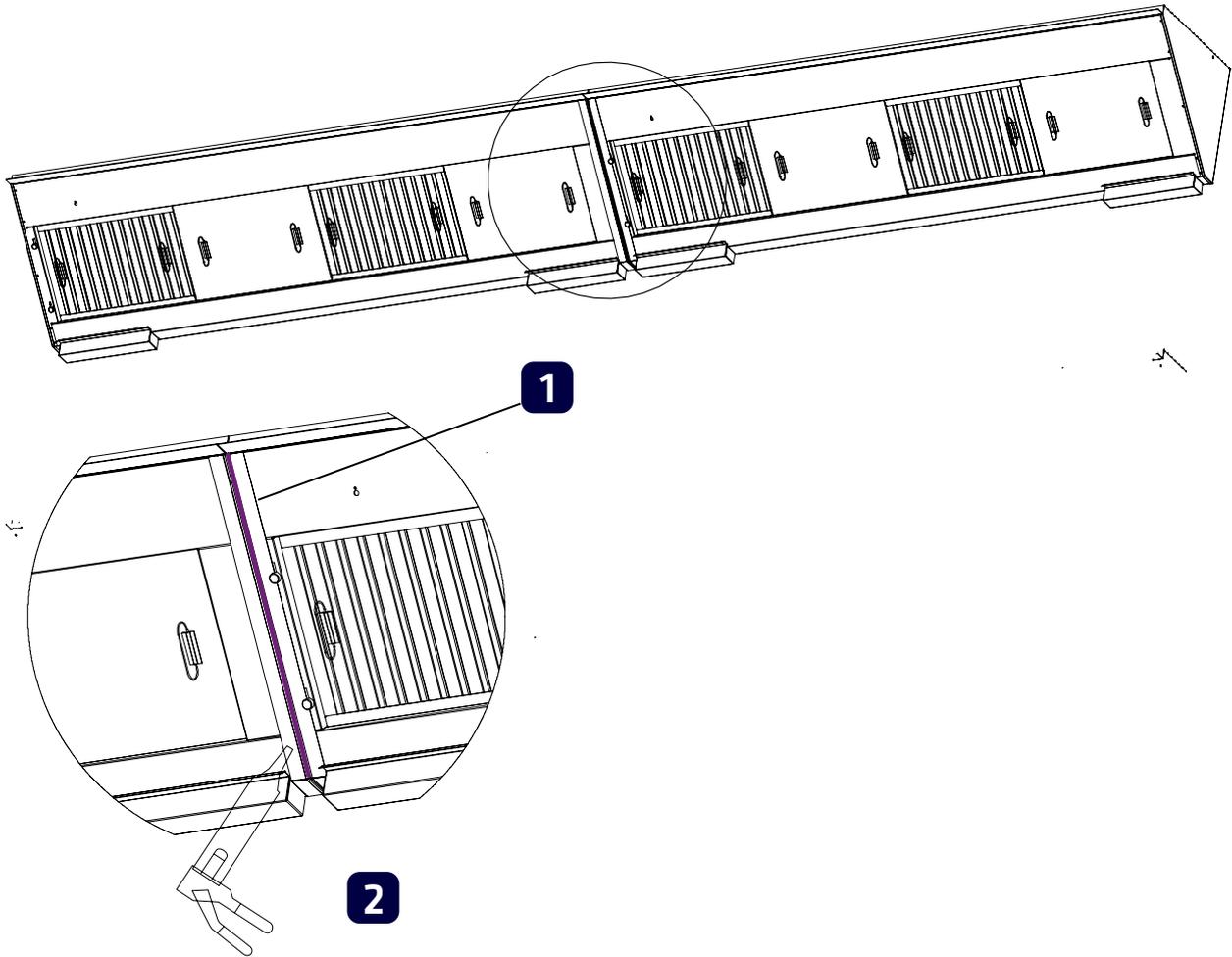
Adjustment instructions

1. Remove the grease filters. Instructions for removing the filters are available on the next page.
2. Open the locking screw of the damper.
3. Increase or decrease the suction opening by moving the damper along the slide rails.
4. Reinstall the filters.
5. Measure the pressure drop by the sized connection of the chamber.
6. Repeat the previous steps, if necessary.
7. Finally lock the damper with the locking screw and check that the filters are properly in place.

K values

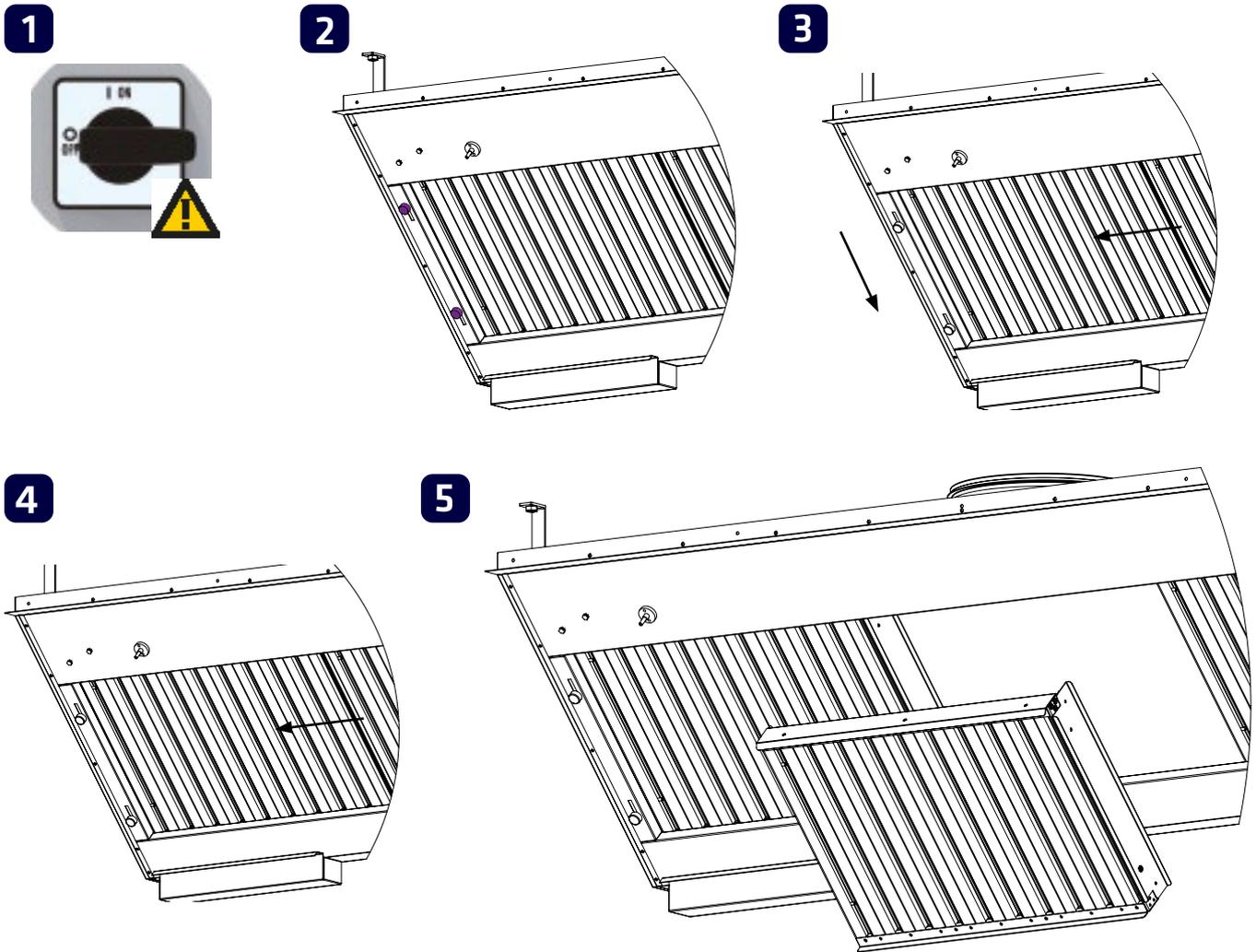
Model	Exhaust air / Number of filters (pc)											
	1	2	3	4	5	6	7	8	9	10	11	12
CleanMaster®	18,5	37	55,5	74	92,5	111	129,5	148	166,5	185	203,5	222
StandardPlus	21,6	43,2	64,8	86,4	108	129,6	151,2	172,8	194,4	216	237,6	259,2
StandardPlus, condensate	22,7	45,4	68,1	90,8	113,5	136,2	158,9	181,6	204,3	227	249,7	272,4

Connecting multiple modules



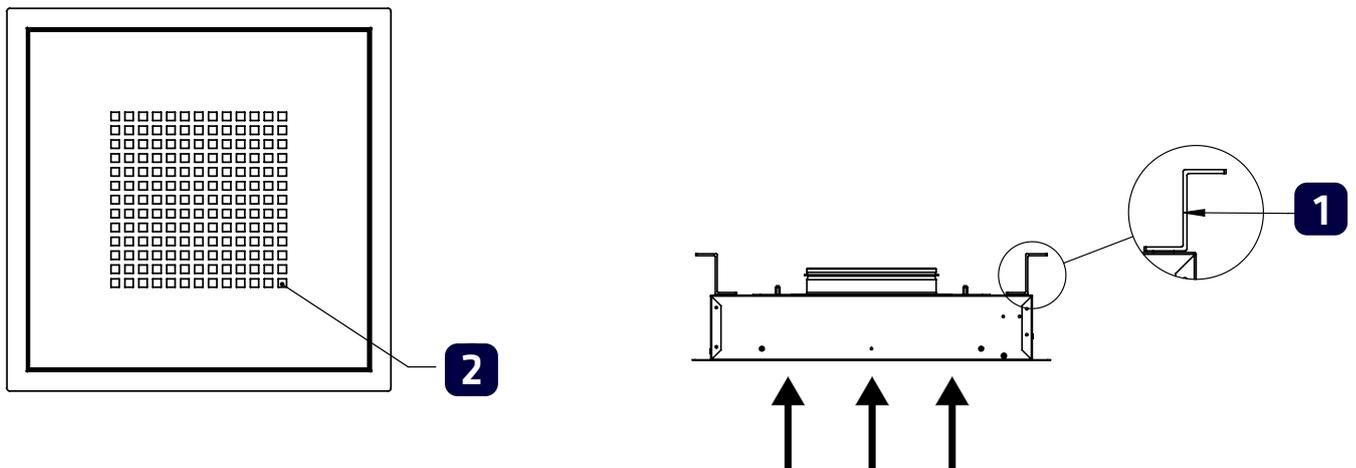
1. Tape both sides of the seam to prevent the adhesive mass from spreading to other surfaces.
2. Apply the adhesive mass to the seam to the seal. We recommend 3M™ Adhesive Sealant 760 UV adhesive for sealing. Finish the seaming line with a suitable tool.

Removing the grease filters



1. If the CleanMaster system is running, shut it down by turning the main switch of the control unit to OFF position.
2. Open the safety lock of grease filters by loosening the thumb knobs of the filters, which are on the left side.
3. Slide the thumb knobs to lower position. NOTE! If the CleanMaster system has not been shut down from the control unit as instructed, the system will now shut down automatically.
4. Slide the grease filter, which is at the far left side, to the left.
5. First remove the grease filter, which is the second from the left and then all the other filters.

CRO exhaust air unit



1. Mounting point (Z angle)
2. Measuring point (k values next to the measuring point)

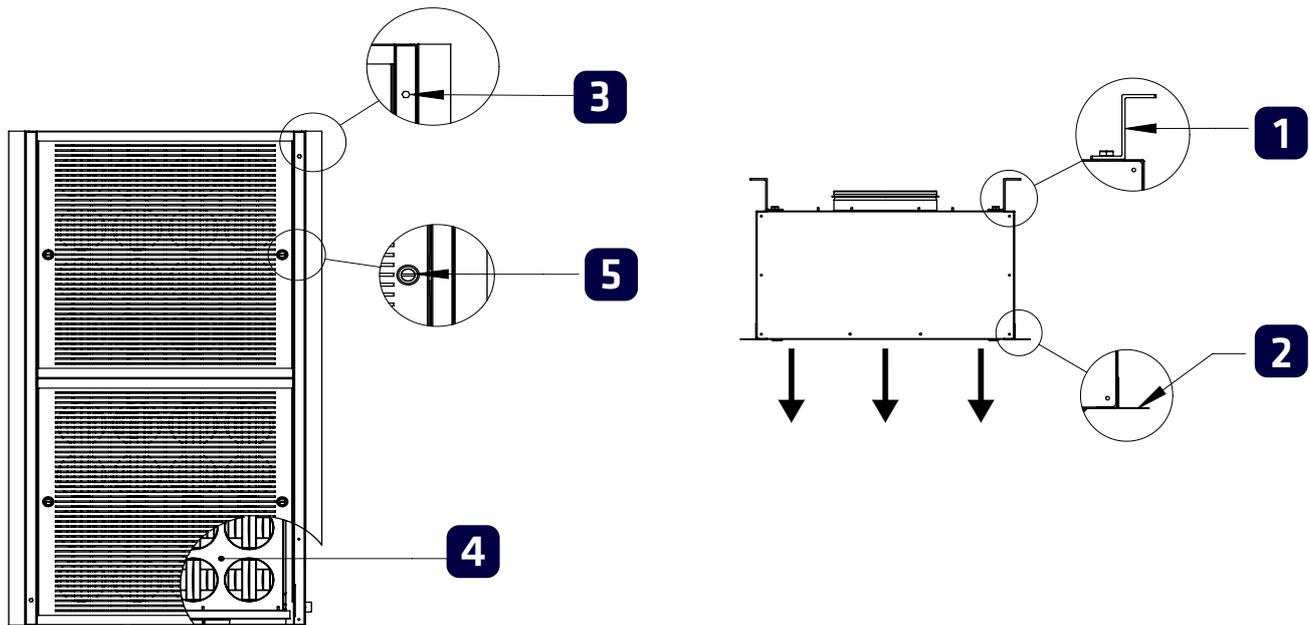
Adjustment instructions

1. Measure the pressure difference at the measuring point.

K values

Ø125	Ø160	Ø200	Ø250	Ø315
16,2	27,2	26,1	43,0	43,0

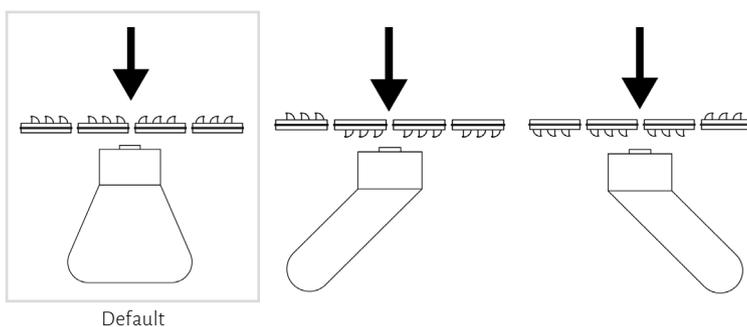
CTI supply air unit



1. Mounting point (Z angle)
2. L-profile (separate by default)
3. Measuring point (k values are next to the measuring point)
4. Supply air grille and nozzles
5. Grille opening screws

Throw patterns

Turn nozzles to adjust the pattern.



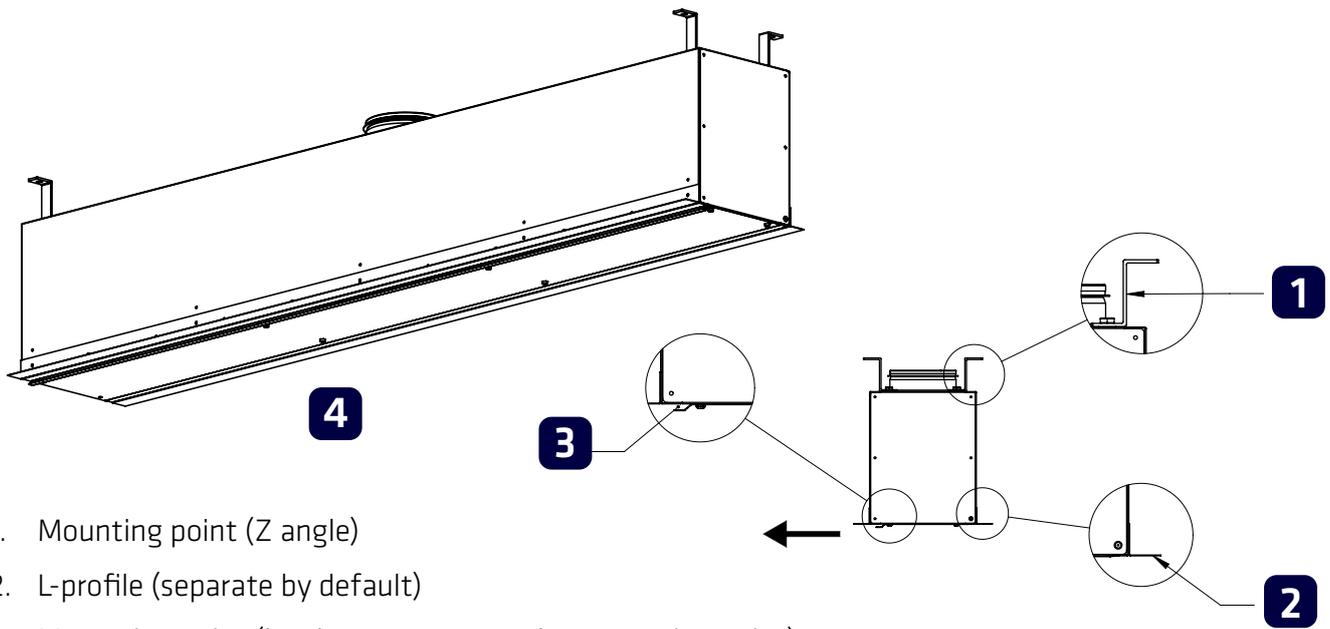
Adjustment instructions

1. Measure the pressure difference at the measuring points.
2. Remove the supply air grille by opening the screws.
3. Adjust the damper inside the product to a suitable position.
4. Reinstall the supply air grille and lock the screws.
5. Re-measure the pressure difference and repeat the steps if necessary.

K values

	W=300	W=500	W=800	W=1000
L=1000	28	55	80	106
L=1500	41	83	120	159
L=2000	55	110	161	212

COI supply and capture air unit



1. Mounting point (Z angle)
2. L-profile (separate by default)
3. Measuring point (k values are next to the measuring point)
4. Screws for dismounting the base

Adjustment instructions

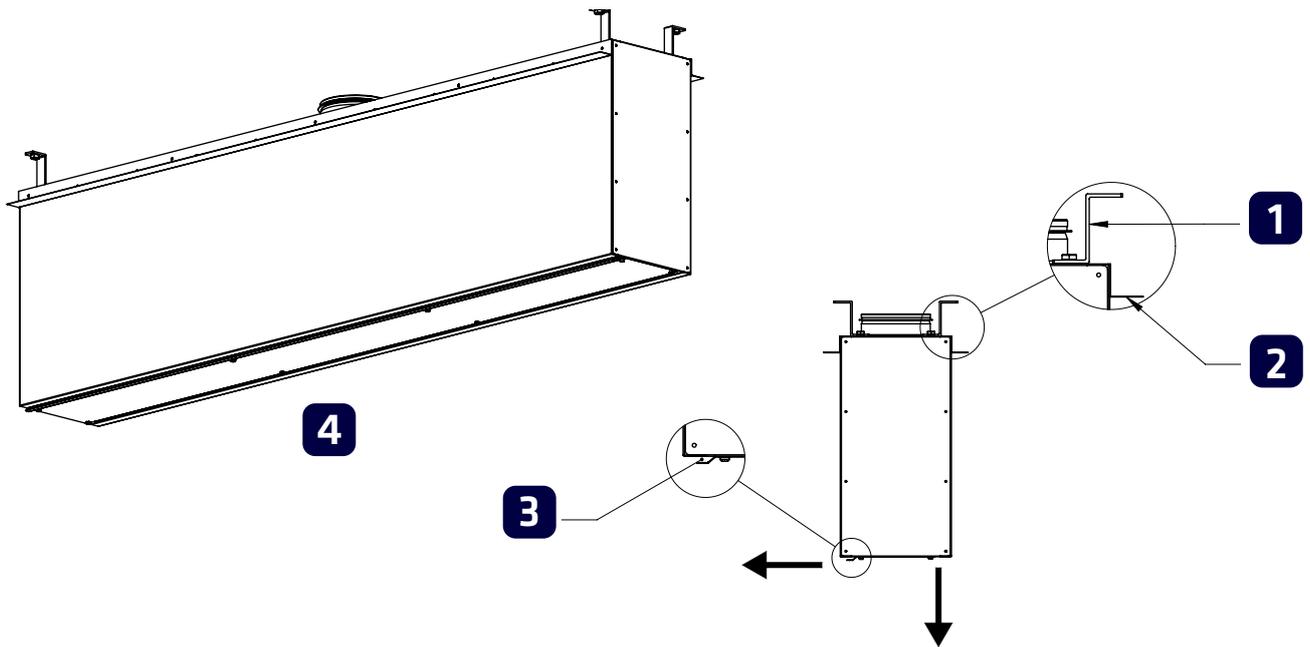
1. Measure the pressure difference at the measuring point.
2. Remove the base plate.
3. Adjust the damper inside the device to suitable position.
4. Reinstall the base.

K values

L=1000 L=1500 L=2000

5,2 7,8 10,4

CIL supply air and air curtain unit



1. Mounting point (Z angle)
2. L-profile (separate by default)
3. Measuring point (k values are next to the measuring point)
4. Screws for dismounting the base

Adjustment instructions

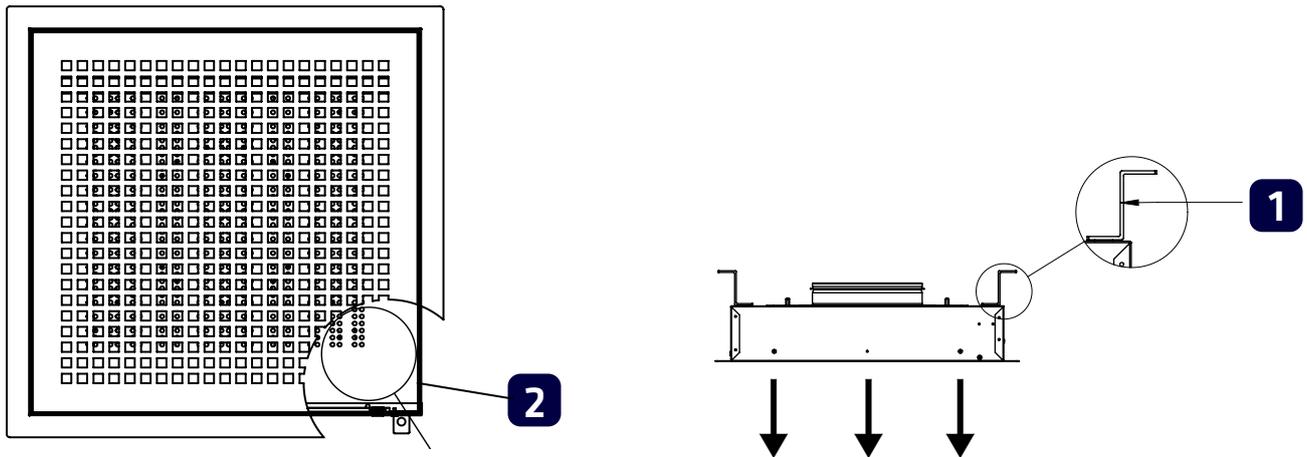
1. Measure the pressure difference at the measuring point.
2. Remove the base.
3. Adjust the damper inside the device to suitable position.
4. Reinstall the base.

K values

L=1000 L=1500 L=2000

13,2 19,9 26,5

CTO supply air unit



1. Mounting point (Z angle)
2. Measuring point (k values are next to the measuring point)

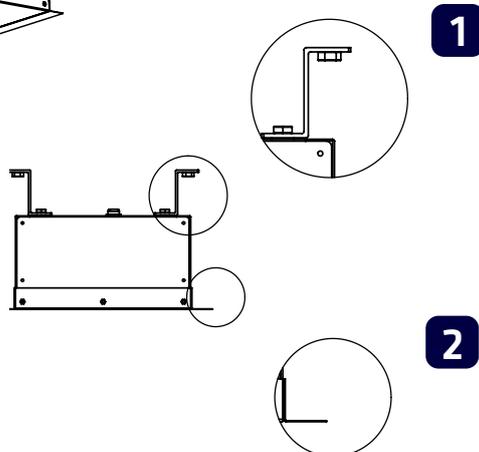
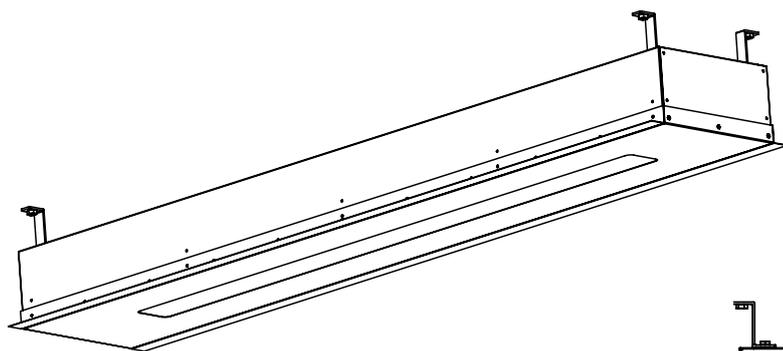
Adjustment instructions

1. Measure the pressure difference at the measuring point.

K values

Ø125	Ø160	Ø200	Ø250	Ø315
9,0	20,5	21,2	45,0	42,0

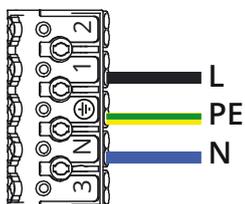
CKV luminaire



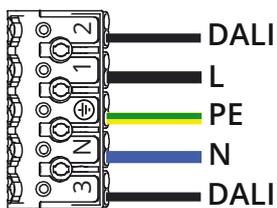
1. Mounting point (Z angle)
2. L-profile (separare by default)

DALI connections

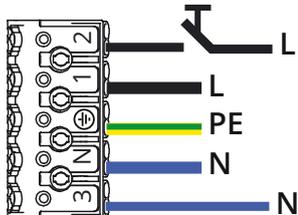
On / Off



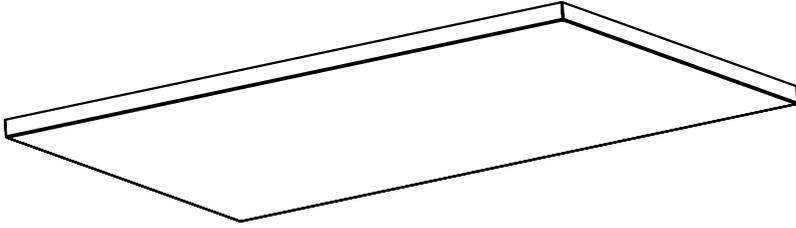
DALI



SwitchDIM

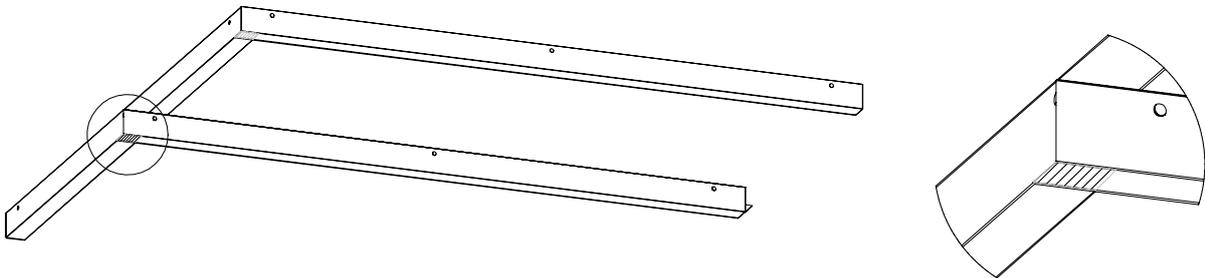


CVS ceiling panel



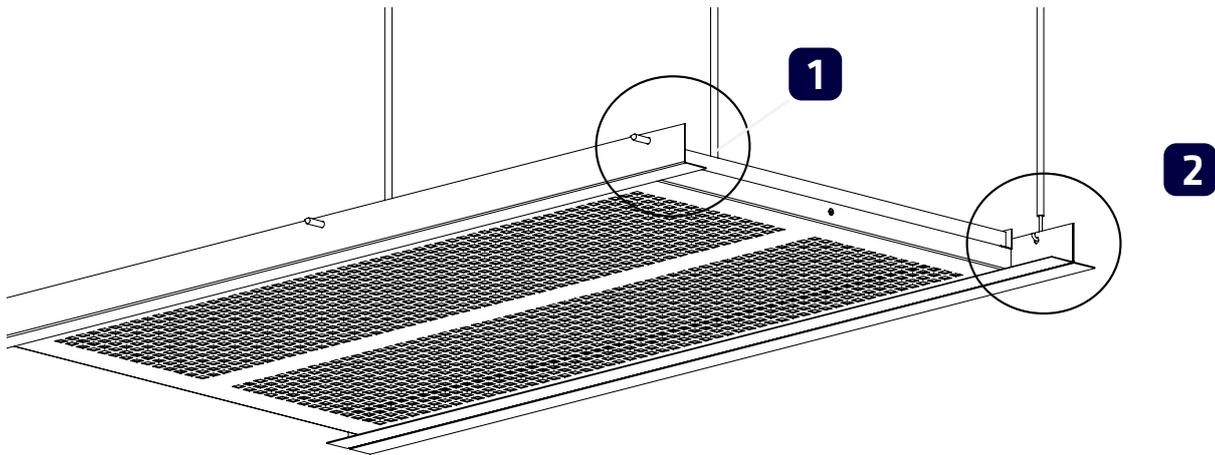
Panels are mounted by placing them on top of L-profiles.

Mounting of T-profiles



Cut the overlapping strips at the point indicated in the picture.

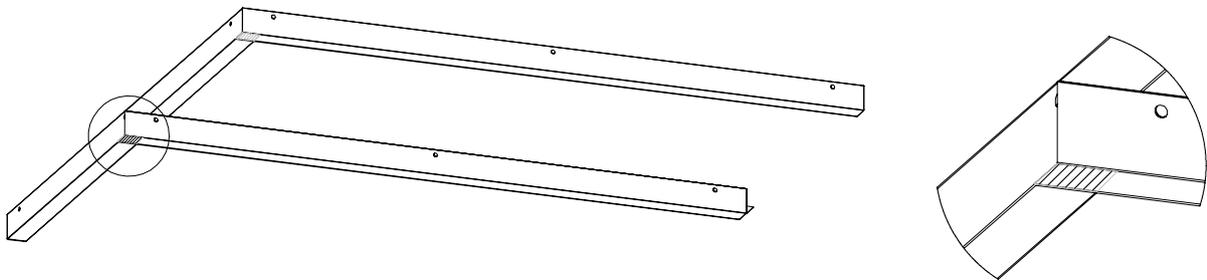
CVL dampening panel



1. L-profile (separare by default)
2. T-profile

Panels are mounted by placing them on top of L-profiles.

Mounting of T-profiles



Cut the overlapping strips at the point indicated in the picture.

Climecon ventilated ceiling installation principles

1. Before the installation

- Wall finish to be completed till 3600 mm FFL minimum and contractor to make sure the wall is levelled and smooth for installation.
- All the high construction work (Blaster, any high level wall opening, wall opening closure around the MEP services, all soffit opening to be closed) to completed.
- All main cable trays to be installed and cables to be pulled.
- Cables for ventilated ceiling lights should have an extra length with junction box to allow connection to the ceiling light cable.
- Main duct for supply and extract to be installed and insulated and ready for the final collar connection to the ventilated ceiling duct connection opening.

2. Order of the installation

1. Exhaust air devices
2. Supply air devices
3. Light devices
4. T and L -profiles
5. Ceiling panels

3. Installation principle

- Mark carefully the positions of the units to the soffit according to the design.
- Install the threaded rods in places marked on the soffit (threaded rods are not included in delivery).
- Attach the Z mounts to the devices.
- Lift the devices steadily up from the corners and attach the threaded rods to Z mounts at a suitable height.
- Check that the devices are at the positions indicated in the design, and are leveled.
- Level all the installed devices (Extract devices, supply air devices, light devices) by using the laser type level transmitter, It's very important to assure that all devices are leveled at the designed height 3000 mm (Please confirm the drawing for each area)
- Install the T and L mounting strips to positions indicated in the design, such as by suspending the strips from the soffit on threaded rods or by mounting to the wall.
- Lift the ceiling panels to positions indicated in the design. Fix the panels to mounting strips if necessary, to ensure rigidity.