

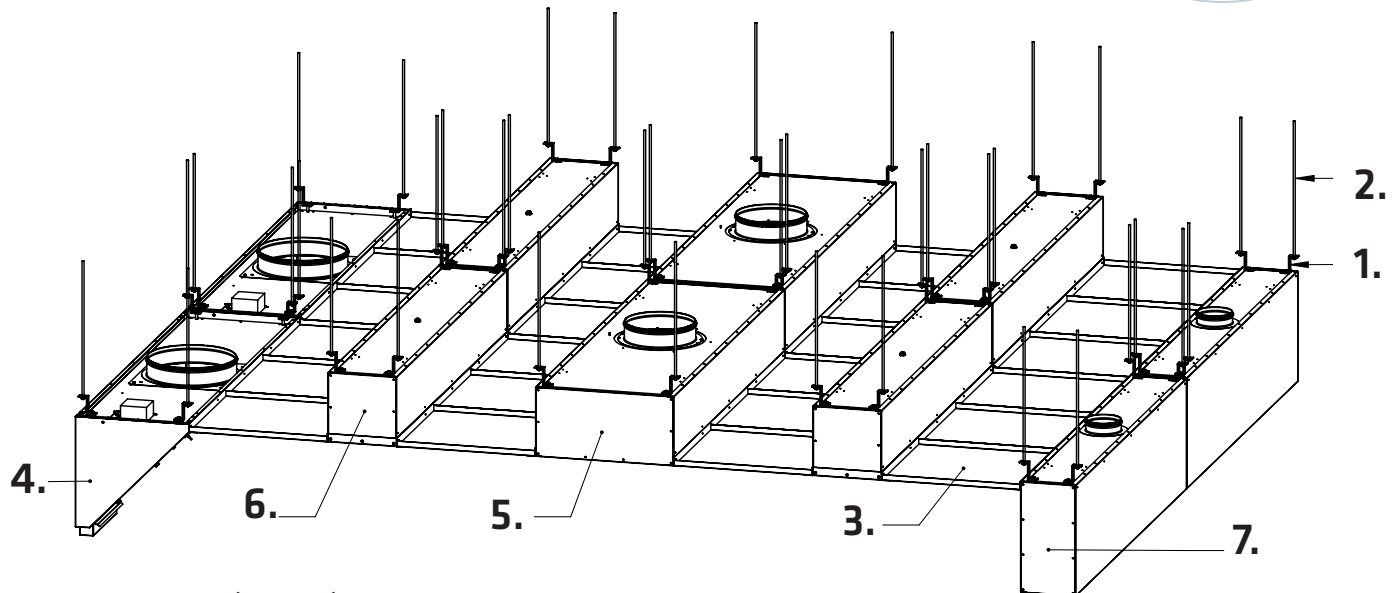
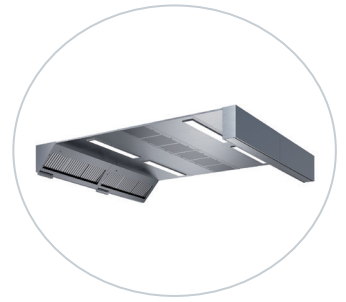


INSTALLATION AND ADJUSTMENT INSTRUCTIONS FOR CLEANMASTER[®] AND STANDARDPLUS CEILING VENTILATION

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Principle for the installation of ceiling ventilation



- 1. Mounting point (Z angle)
- 2. Threaded rod
- 3. Ceiling panel (CSL)
- 4. Exhaust air unit (CRE)
- 5. Supply air unit (CTI)
- 6. Light (CKV)
- 7. Air curtain (CIL)

Installation principle

1. Mark carefully the positions of the units to the ceiling according to the design.
2. Install the threaded rods in places 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, and are horizontal.
6. Install the T and L mounting strips to positions indicated in the design, such as by suspending the strips from the ceiling on threaded rods or by mounting to the wall.
7. Lift the ceiling panels to positions indicated in the design. Fix the panels to mounting strips if necessary, to ensure rigidity.

Order of installation

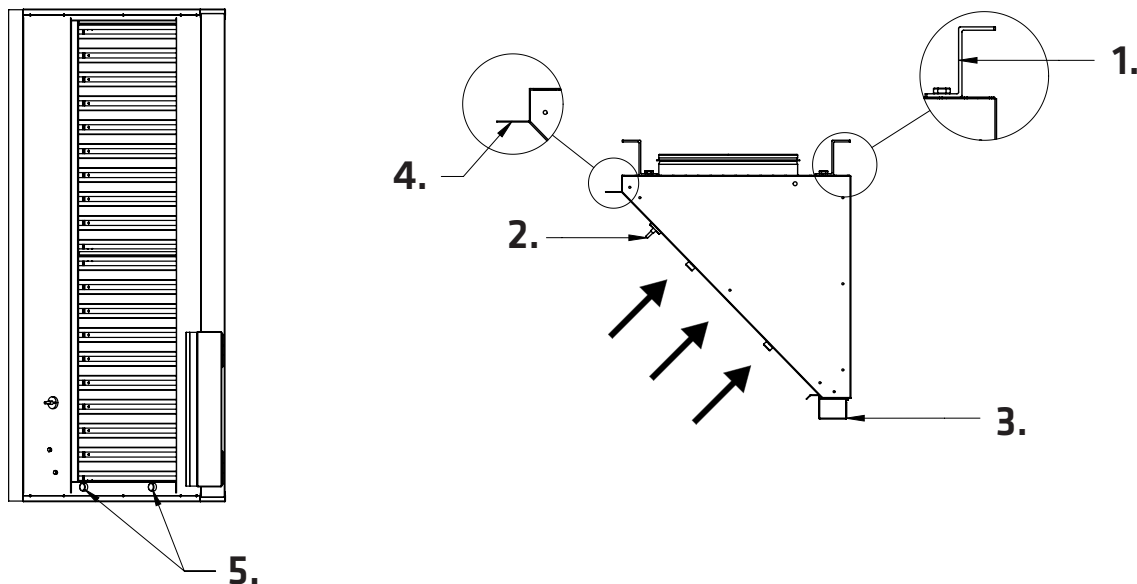
1. Exhaust air devices **CRE, CRO**
2. Other devices **CTI, COI, CIL, CTO** ja **CKV**
3. T and L mounting strips
4. Ceiling panels **CVL, CVS**

Delivery

- According to the design
- According to the design
- In 3m profiles
- 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 pan
- 4. L strip (installed in factory)
- 5. Locking mechanism of filters

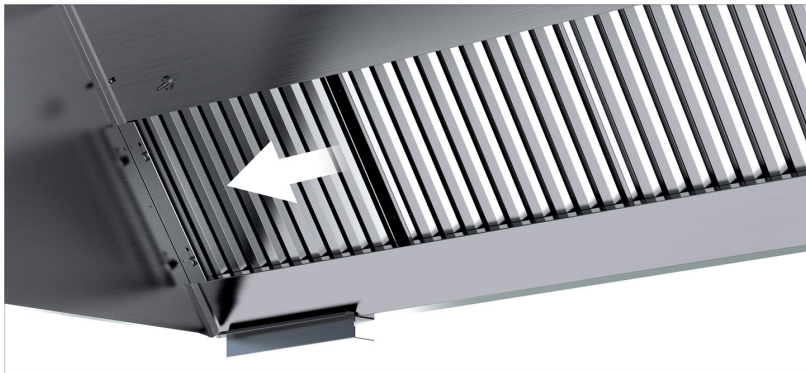
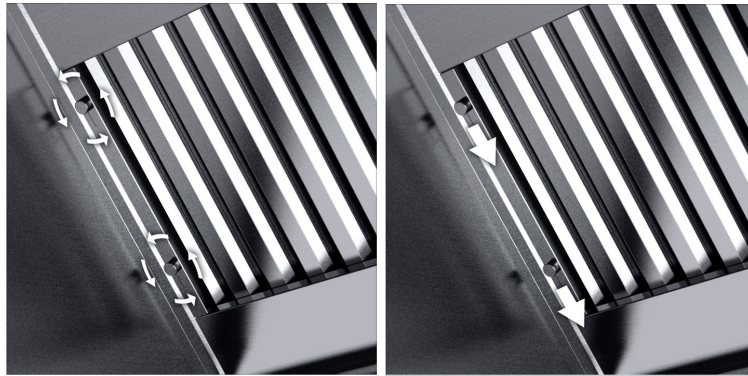
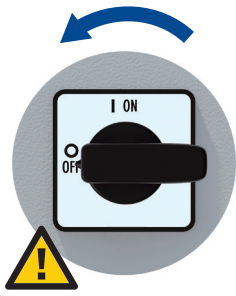
Adjustment instructions

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

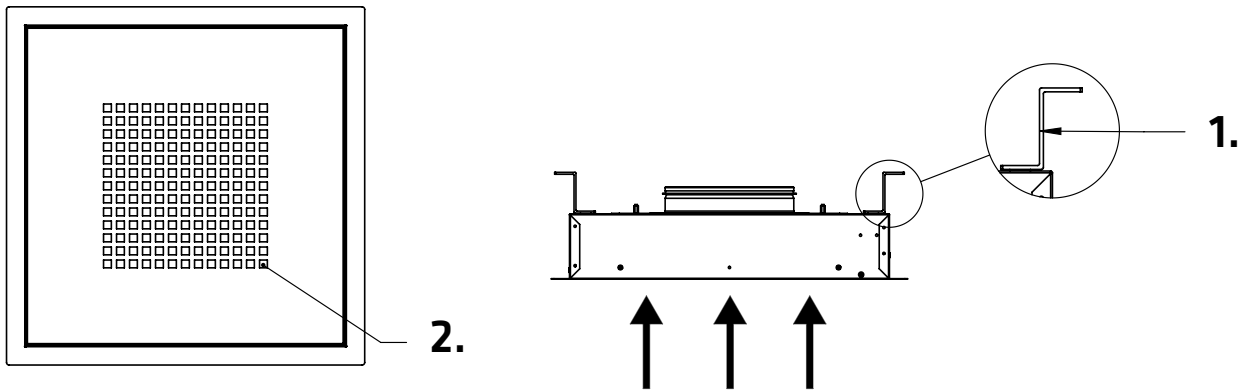
Hood model	Exhaust air / Number of filters (pc)											
	1	2	3	4	5	6	7	8	9	10	11	12
CleanMaster®	18,5	37	55,5	74	92,5	111	129,5	148	166,5	185	203,5	222
StandardPlus, grease	21,6	43,2	64,8	86,4	108	129,6	151,2	172,8	194,4	216	237,6	259,2
StandardPlus, condensate	22,7	45,4	68,1	90,8	113,5	136,2	158,9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

Removing the grease filters



1. If the CleanMaster® system is running, shut it down by turning the main switch of the CCM 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 CCM control unit as instructed, the CleanMaster® system will now shut down automatically.
4. Move 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 product)

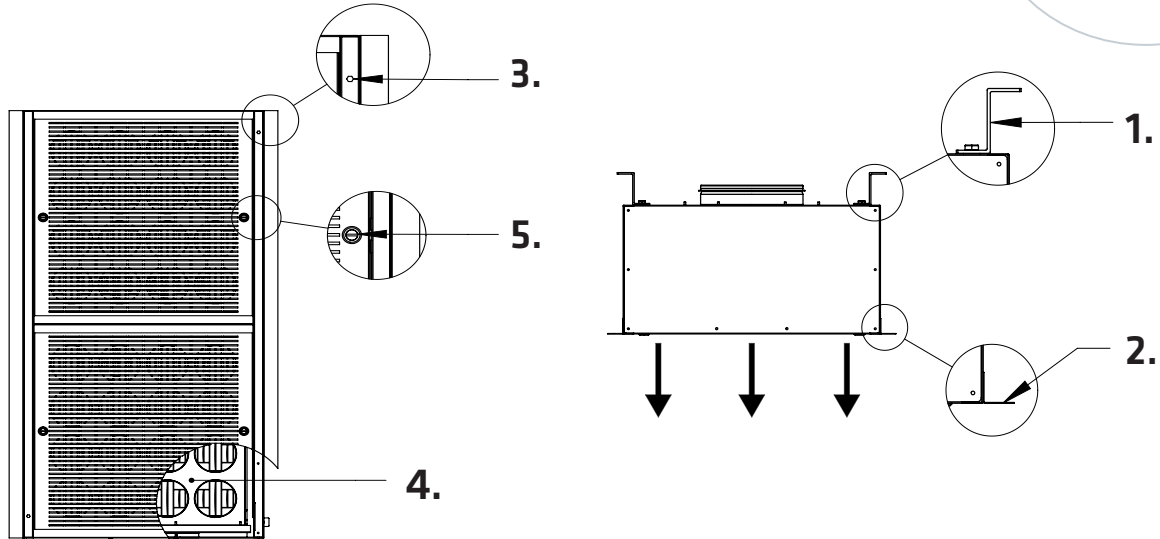
Adjustment instructions

- 1. Measure the pressure difference at the measuring point

K values

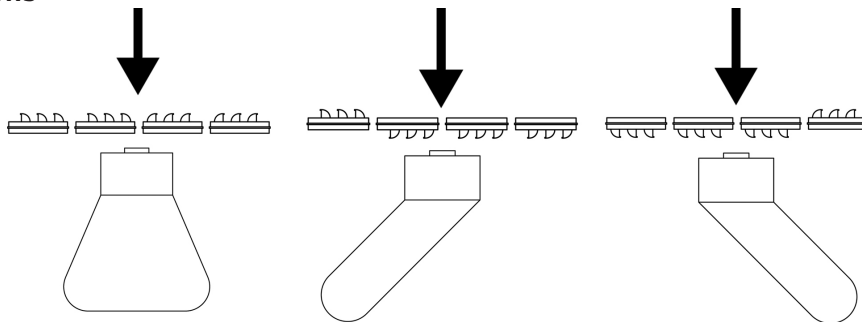
Ø125	Ø160	Ø200	Ø250	Ø315
16,2	27,2	26,1	43,0	43,0

CTI supply air unit



- 1. Mounting point (Z angle)
- 2. L strips (installed in factory)
- 3. Measuring point (k values are next to it)
- 4. Supply air grille or nozzles
- 5. Grille opening screws

Throw patterns



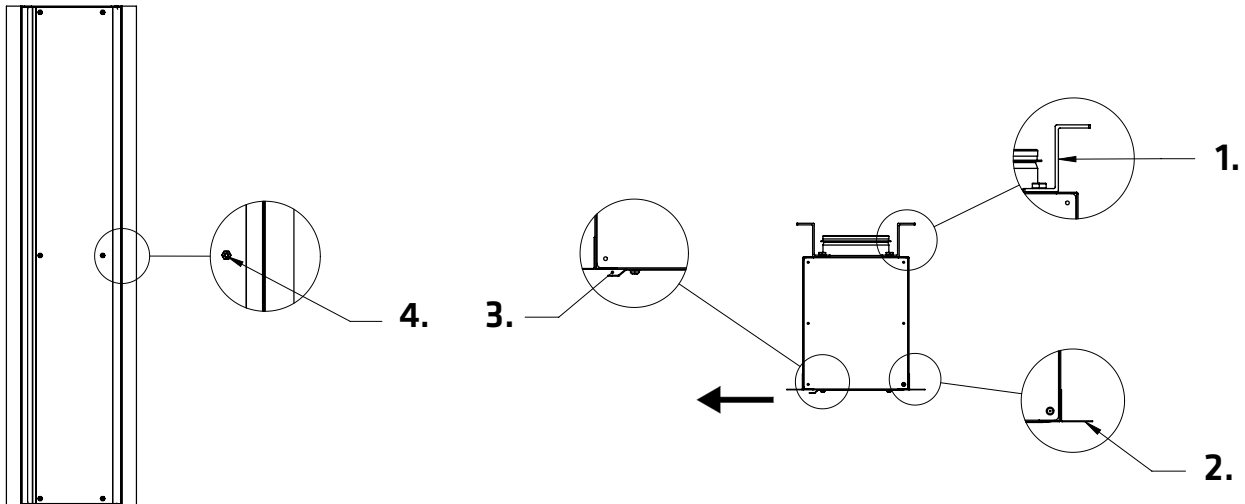
Adjustment instructions

1. Measure the pressure difference at the measuring points.
2. Remove the supply air grille from 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 strips (installed in factory)
3. Measuring point (k values are next to it)
4. Screws for dismantling the base

Adjustment instructions

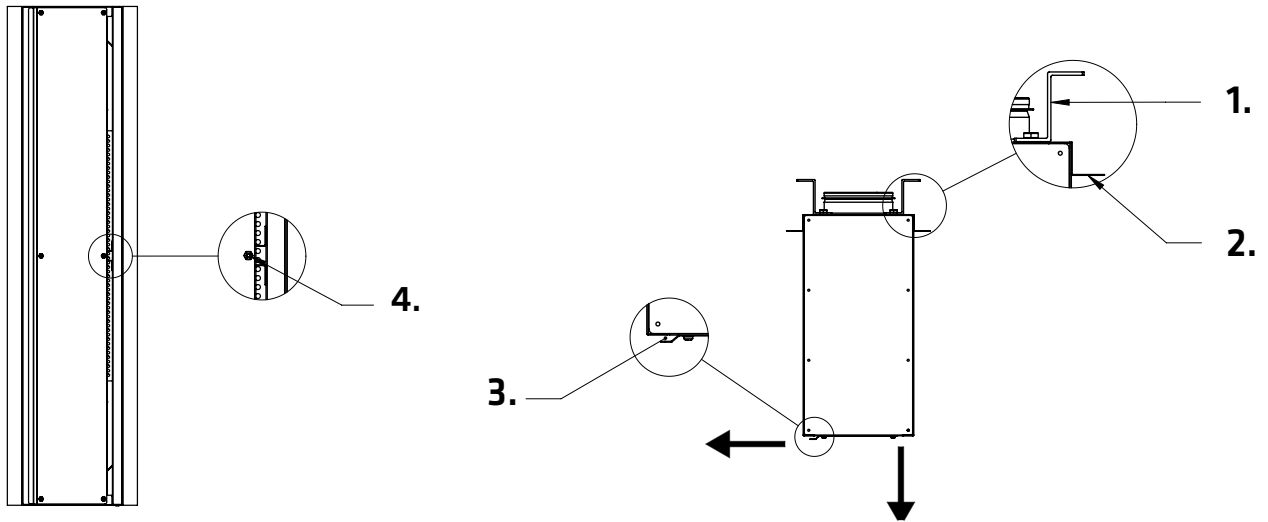
1. Measure the pressure difference at the measuring point.
2. Remove the base.
3. Adjust the damper inside the device to suitable position.
4. Reinstall the base.
5. Re-measure the pressure difference and repeat the steps if necessary.

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 strips (installed in factory)
3. Measuring point (k values are next to it)
4. Screws for dismantling the base

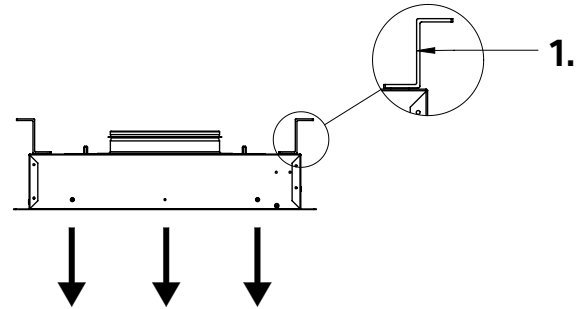
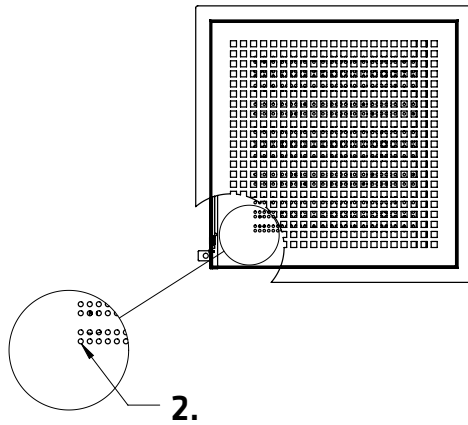
Adjustment instructions

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.
5. Re-measure the pressure difference and repeat the steps if necessary.

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

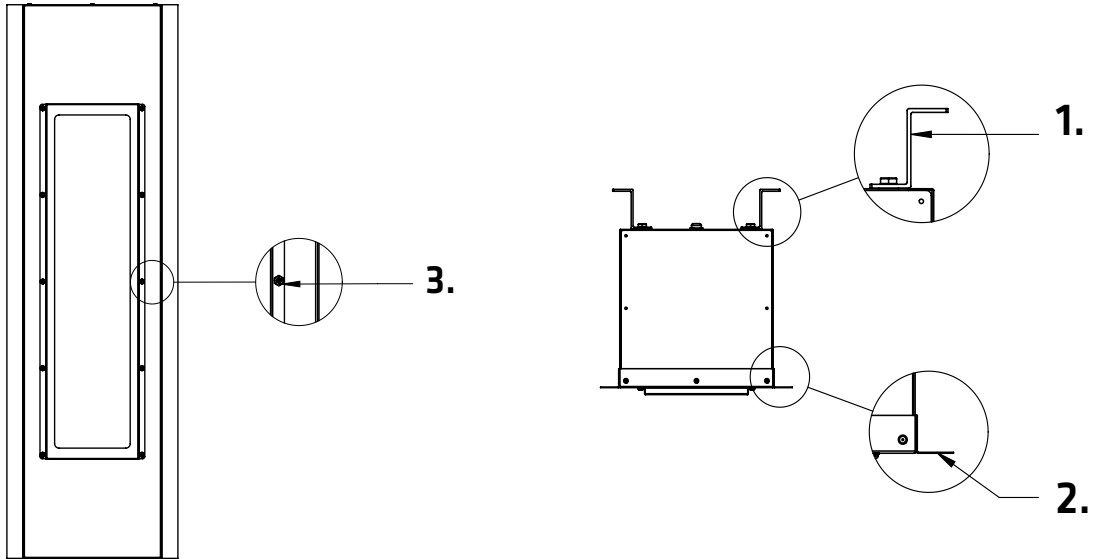
Adjustment instructions

- 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 strips (installed in factory)
- 3. Screws for dismantling the glass door