Operation & Maintenance

AM 50

AIRMASTER

Revision	Date	Description
1.0	2022-11-17	First edition.
2.0	2023-05-01	New design update. Minor changes to Table 6.
3.0	2025-05-02	Item 3.3 updated

IMPORTANT!

Read the manual thoroughly before using the product.
Keep this manual for later use.

Place of installation and serial number (S/N)	
Type	
Delivery date	
Mounting location	
S/N Air handling unit	
S/N Cooling Module	-

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1 Introduction

This is an instruction manual for AM 50. Here you will find information concerning the operation and maintenance of the unit. The full documentation package contains a Mounting manual and an Operation and Maintenance manual.

Both manuals are available at www.airmaster-as.com

The manual should be passed along to and saved by the air handling unit's owner.

1.1 Target group

This manual is addressed to both laypersons as well as qualified personnel.

1.2 Warning Symbols

This manual may contain warning symbols. The symbols adhere to the ISO7010 standard. The visual depiction may vary depending on the type of media.

The symbols are described below:

DANGER

Danger to persons.

Failure to comply with the instruction results in severe or fatal injuries to persons.

WARNING

Danger to persons.

Failure to comply with the instruction can result in injuries to persons.

NOTICE

Avoiding material damage.

Failure to comply with the instruction can damage the device and/or its environment.

Information, tips, and recommendations.

1.3 Liability

The manufacturer cannot be held liable for damages, which occur due to usage in violation of this manual's instructions.

The manufacturer reserves the right to make changes without notice. All values stated are nominal values and may be affected by local conditions.

The warranty is voided, should this manual not be followed.

Any repairs not carried out by Airmaster A/S will also void the warranty.

2 Safety instructions

Follow this manual to ensure correct operation and maintenance. Should any doubts or uncertainty arise concerning the contents of the manual, please contact Airmaster A/S, see section 3.5 on page 8 for contact information.

Only use the product for its described purposes.

2.1 Everyday use

Laypersons may use the unit in the following ways:

- Turn the unit on/off and change the ventilation steps on the unit using the button for this purpose.
- Clean the wall-mounted part of the unit and the coarse filter.
- Change the filters in the unit. However, it is recommended that qualified personnel replace filters as part of the maintenance.

Should the unit stop working, the power needs to be switched off. Summon qualified personnel.

Laypersons may not carry out the maintenance of the unit. Additionally, testing, troubleshooting, and work with the electrical system may only be carried out by trained personnel, who are specialized in electric equipment.

2.2 Maintenance

Maintenance must be carried out by qualified personnel. It is only trained personnel with specialization in electrical equipment who can test, troubleshoot, and work with the electrical system.

Repairs must be done by Airmaster A/S.

2.2.1 Electrical current

	**DANGER** Voltage can give an electrical shock. When work is being done on the unit, the voltage source must be switched off, and effort should be made that it cannot accidentally be switched on again. Take the right precautions with shielding if work is being done on a unit with voltage.

	**WARNING** Terminal blocks, terminals, and electrical connectors can carry voltage potential even when the unit has been switched off. Wait 5 minutes after disconnecting all the connections to the voltage source before touching the unit.

	**WARNING** The unit may automatically restart after power failure.

2.2.2 Moving parts

	NOTICE
	Loose objects, hair, and jewelry may get snagged on rotating parts and dragged into the unit Do not wear jewelry or loose objects while working with rotating parts. Protect long hair by wearing headgear.

	NOTICE
	Body parts that come in contact with rotating parts can suffer minor or moderate damage. Avoid making unfavorable contact with the unit and make sure that all parts are stationary before working on the unit.

	Dropping the air handling unit can result in damage or injuries to humans or objects. If the unit is removed from the wall, for example during cleaning, it should be placed carefully on the internal cover on a level surface.

3 Product Identification

3.1 Product name and type

Product name	AM 50
Unit item number	9000050001
Type	Decentral air handling unit. Stand-alone unit.

Table 1 - Product name and type

3.2 Correct use

AM 50 is a decentralized room-based air handling unit with heat recovery. AM 50 provides a balanced exchange of air in living spaces and smaller rooms.

NOTICE

AM 50 is not designed for wet rooms or kitchens.

Should you wish to use the AM 50 in wet rooms or kitchens, the unit should be used in tandem with an air exhaust system in compliance with existing building regulations.

3.3 Capacity

AM 50 has six ventilation steps. Table 2 below shows step, capacity, sound, and nominal current.

Step	Capacity [m^3/h]	Sound pressure [dB(A)]	Nominal current [A]
1	15	25	0,05
2	21	30	0,06
3	28	35	0,08
4	37	40	0,10
5	46	45	0,13
6	54	47	0,17

Table 2 - Capacity, sound pressure, nominal current

AM 50 will automatically adapt its ventilation step to the desired interval based on the relative humidity in the room.

3.4 Product information according to directive 2009/125EC

Product information according to “Directive 2009/125/EC” can be found on our website.

Direct link: Declarations, choose ’Product Information According to DIRECTIVE 2009125EC’.

3.5 Manufacturer

Airmaster A/S, Industrivej 59, 9600 Aars.

Phone: (+45) 98 62 48 22

E-mail: info@airmaster.dk

Web site: www.airmaster.dk

3.6 EU Declaration of Conformity

EU Declaration of Conformity can be found in Appendix A on page 30. The most recent version is always available on our website.
Direct link: Declarations, choose ’EU Declaration of Conformity’.

3.7 Certificates

AM 50 is Eco Label certified, please see Appendix B on page 31. The most recent version is always available on our website.
Direct link: Declarations, choose ’Eco label AM 50’.

3.8 Warranty

The unit comes with a 24-month warranty, for further information see Terms of Sale and Delivery.

The warranty is voided if:

- Error messages are ignored.
- If the filters are not changed when the filter change identification flashes, or when this is not done according to the manual.
- Instructions provided in this manual are not adhered to.

4 The unit’s composition

The unit is comprised of a wall-mounted part along with a ventilation unit located inside the wall-mounted part. The wall-mounted part has an outside and internal side.

The unit is shown in Figure 1 below:

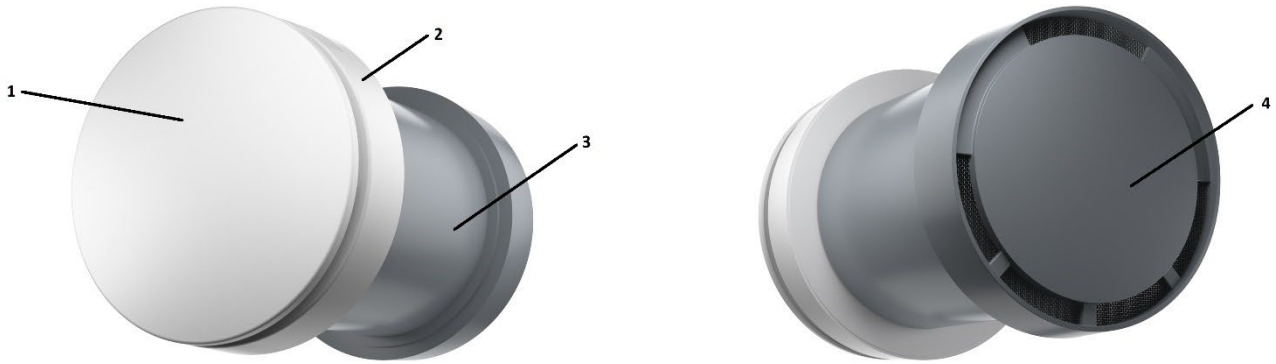


Figure 1 - The units composition. Seen from the inside (left picture) and outside (right picture)

1. The internal cover which protects the air handling unit.
2. The visible part of the air handling unit. The air handling unit can only be seen from the inside.
3. Mount in the wall, this part is not visible.
4. The outside part of the wall mount. This is visible from the outside.

Pictured below in Figure 2, is what you will see when standing inside and looking at the wall. These are bullets 1 and 2 mentioned above.

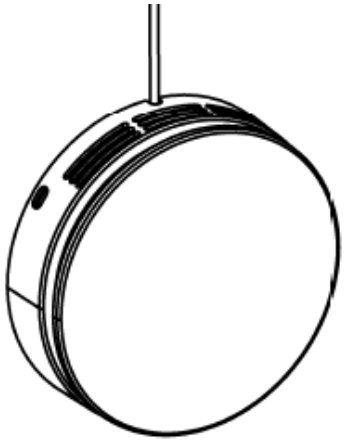


Figure 2 - The visible part (seen from inside)

The grille at the top is where the inlet air is coming from. Figure 3 illustrates this.

Figure 3 - The air current from the unit

The ventilation unit inside the wall mount can be taken out, see Figure 4 below.
If the ventilation unit is taken fully out, you can see the wall mount and the outside part, see Figure 5 below.

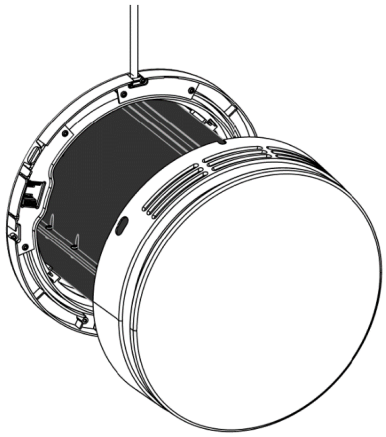


Figure 4 - The ventilation unit half out of the wall mount

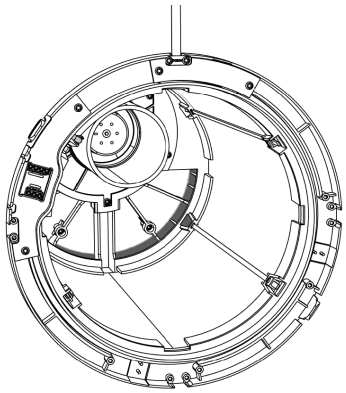


Figure 5 - Wall mount and the outside part

The ventilation unit is only taken out to conduct a thorough cleaning.

5 Everyday use

Users may of course turn the air handling unit on/off and adjust the ventilation steps. You may also clean the wall-mounted part of the unit. You may also change the filter, but we recommend that this is done by qualified personnel as a part of the maintenance.

This section will give you instructions on the use of the unit as well as cleaning and filter change. Follow the instructions closely.

5.1 Turn on/off and regulation of the ventilation level

The unit has a single button for turning on/off as well as adjusting the ventilation step. The button is located on top of the unit, see Figure 6 below.

1. Touch the button to start. The unit will now start at the lowest ventilation step.
2. Should you require a higher ventilation step, touch the button one more time as it will jump up one ventilation step for each button touch.
3. You turn off the unit completely by touching the button one more time after it is on ventilation step 6.

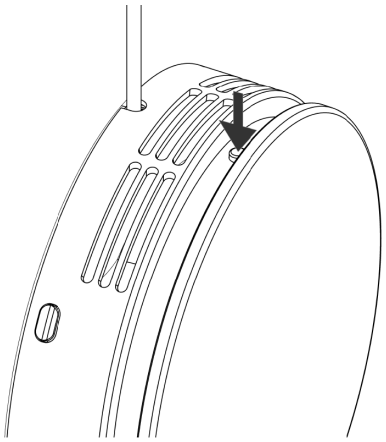


Figure 6 - Button for turning on/off and changing the ventilation step

	Should you wish to start in for example ventilation step 4 from an off state, touch the button four times in quick succession which will start the unit at step 4, see Table 3 below.

Off	-
Step 1	1 button touch from off-state
Step 2	2 button touches in quick succession from off state, or 1 touch from step 1
Step 3	3 button touches in quick succession from off state, or 1 touch from step 2
Step 4	4 button touches in quick succession from off state, or 1 touch from step 3
Step 5	5 button touches in quick succession from off state, or 1 touch from step 4
Step 6	6 button touches in quick succession from off state, or 1 touch from step 5
Off	1 button touch from step 6, or the number of button touches to ‘off’ from the current step

Table 3 - Adjusting the ventilation step

Additionally, when you touch the button, you will see a visual signal showing the ventilation step: a green, flashing diode, visible when looking down, through the grille behind the button, see Figure 7 below.

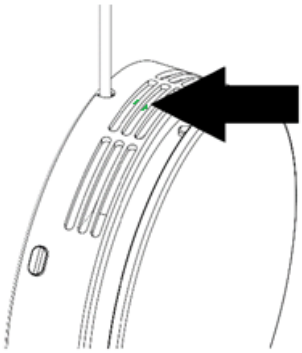


Figure 7 - Visual signal of the ventilation level seen on the "back wall" through the grille

A single button touch from an off state will make the diode flash once to show that the unit is in ventilation step 1 (the flash will repeat after approx. 3 seconds, after which it turns off).

When you touch the button again, the diode will flash twice in quick succession (repeats approx. 3 seconds, after which it turns off) to show that the unit is now in ventilation step 2. Ventilation step 3 gives three flashes, et cetera, up to step 6.

5.2 Choose the right ventilation step

The ventilation step is dependent upon where the unit is located. As a baseline we recommend the following:

Step 1	15 m^3/h	Can be used in a bedroom for 1 person
Step 2	21 m^3/h	Can be used in a quiet office/housing for 1 person
Step 3	28 m^3/h	Can be used in a 1- or 2-person(s) office
Step 4	37 m^3/h	Can be used in a printer room, file room, basement room, or similar where a greater exchange of air is desirable. Not recommended for rooms with long-term habitation.
Step 5	46 m^3/h	
Step 6	59 m^3/h	Can be used when a boost of fresh air is necessary. Not recommended for rooms with long-term habitation.

Table 4 - choosing the right ventilation step

5.3 Emergency alert

An emergency alert can mean that all ventilation will need to be turned off, e.g., if a fire close by generates toxic smoke. Should this be the case, the unit will need to be switched off and sealed with a bag. The unit comes with a plastic bag designed specifically for this purpose.

1. Turn the unit off by touching the button on top until it turns off, see Figure 8 below.

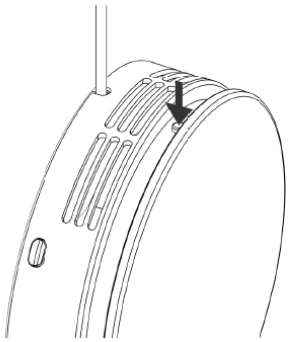


Figure 8 - Turn off the unit

2. Remove the internal cover and take out the plastic bag, which is rolled up tight and located in a little pocket to the right, see Figure 9 below.

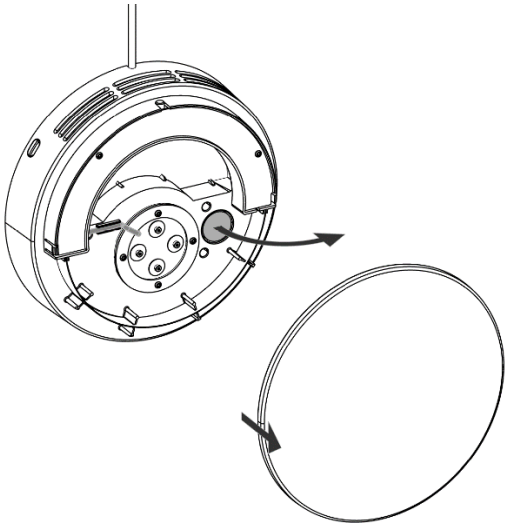


Figure 9 - Plastic bag for sealing

3. Reattach the internal cover.

4. Unfold the plastic bag and place it over the unit and secure it using the enclosed rubber band, see Figure 10 and Figure 11 on the next page.
   The bag must cover the grille so pull it all the way to the wall. Put the rubber band as close to the wall as possible.

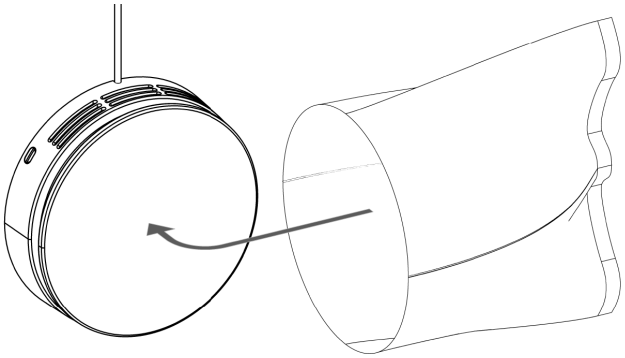


Figure 10 - The plastic bag is used to cover the unit

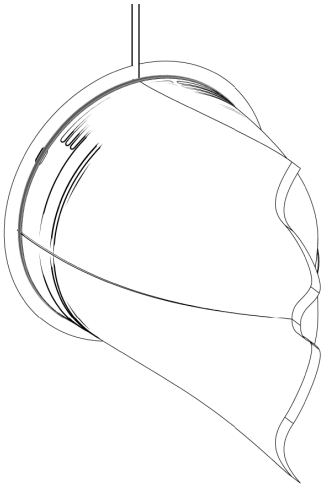


Figure 11 - Secure the bag with the rubber band

5. The unit is now sealed.

After the emergency announcement is canceled, remove the plastic bag, fold it up, and return it to the small pocket under the internal cover. Remember the rubber band.

The unit can now be turned on again.

5.4 Cleaning

To ensure optimal performance, it is necessary to regularly clean the unit. Apart from the regular cleaning, it is necessary to perform a thorough cleaning, at the minimum, every six months whereby the ventilation unit is pulled out and the hole in the wall is cleaned.

All cleaning is done from inside the building.

Daily/weekly/monthly *(depending on where the unit is mounted)*	Regular cleaning of the visible internal part.
Minimum every six months	Thorough cleaning, possibly in conjunction with filter change

Table 5 - Overview of cleaning

5.4.1 Regular cleaning

The visible internal part of the unit can be wiped down with a damp, wrung-out rag as part of the regular cleaning. See Figure 12 below.

Use water or a mix of water and all-purpose cleaning soap. Please make sure that the rag is wrung out as drops of liquid may not enter the unit (through the grille at the top).

You may also use a feather duster or a vacuum cleaner to remove dust.

It is not necessary to turn off the unit for regular cleaning.

Figure 12 - Cleaning of the visible internal part

5.4.2 Thorough cleaning

The thorough cleaning can conveniently be combined with a filter change, see section 5.5 on page 20.

	NOTICE
	Please keep in mind that the unit weighs approx. 9 kg when removed from the wall.

1. Start by turning off the unit, see Figure 13 below. Wait 3 minutes until the unit has stopped rotating completely.

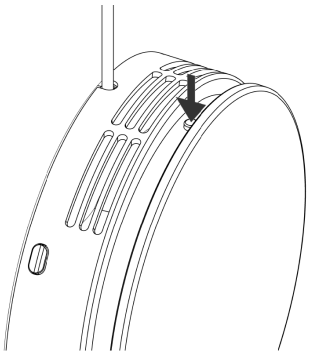


Figure 13 - Turn off the unit

2. Press down on the spring catches to make them release, see Figure 14 below.

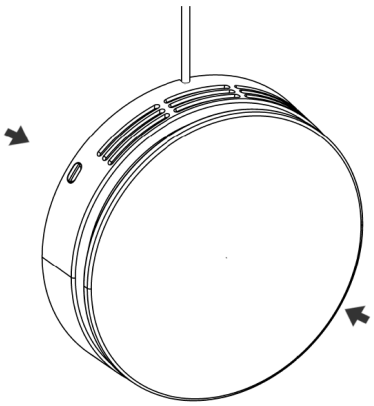


Figure 14 - Press down on the spring catches

3. Carefully pull the ventilation unit out of the wall and place it with the internal cover down on a level surface, e.g., a table or the floor, see Figure 15.
   It is important to place it on a level surface to avoid it falling over.

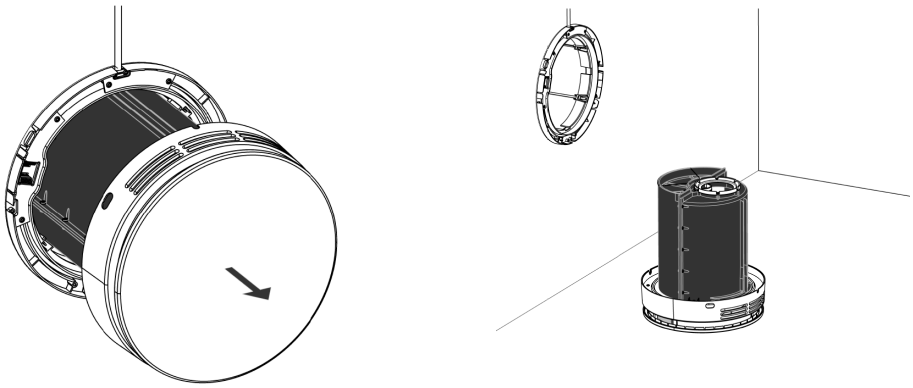


Figure 15 - Take the ventilation system out and place it down on the internal cover

4. Carefully vacuum the hole in the wall to remove dust and any dirt. Be especially attentive to the part furthest in the back where the outside coarse filter is located, see the arrows in Figure 16 below.

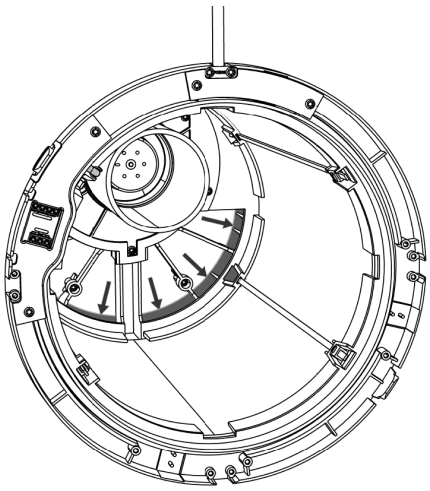


Figure 16 - Carefully vacuum the hole in the wall as well as the coarse filter in the back

5. Place the ventilation unit back in the wall, and carefully press it all the way in until the spring catches make a click, see Figure 17 below.

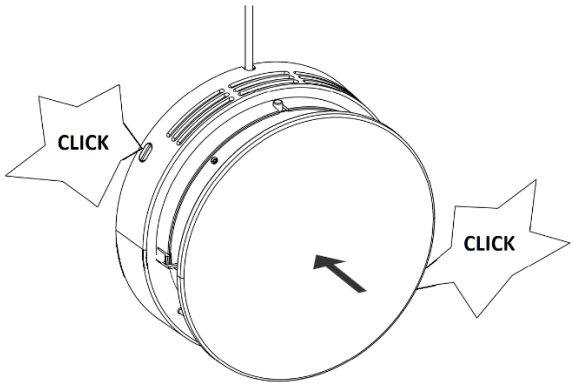


Figure 17 - The ventilation unit is placed back in the wall

6. Detach the internal cover. Remove the coarse filter and carefully clean it with a damp sponge or rag, see Figure 18 below.
   Use water or a mix of water and all-purpose cleaning soap for the cleaning.

   Reattach the coarse filter.

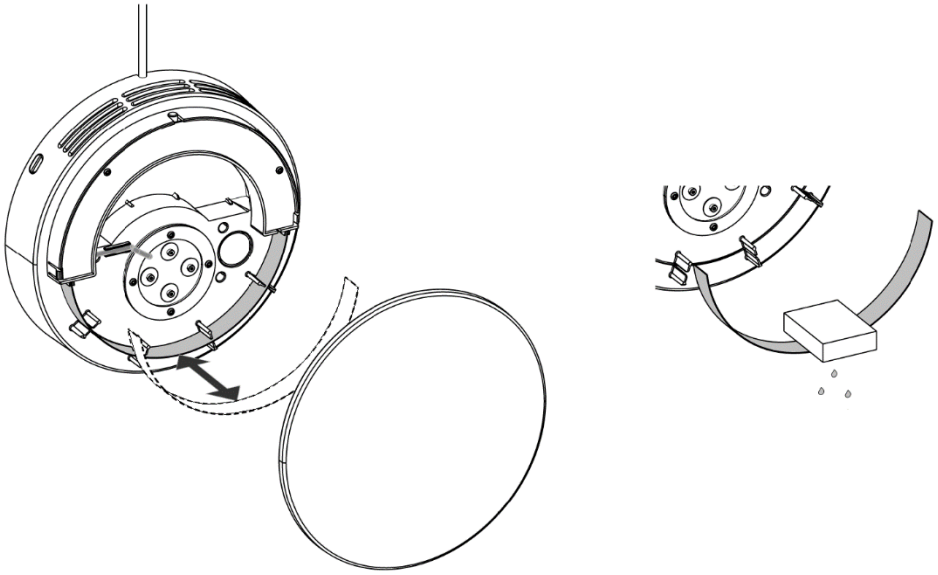


Figure 18 - Clean the internal coarse filter

7. Reattach the internal cover, see Figure 19 below.

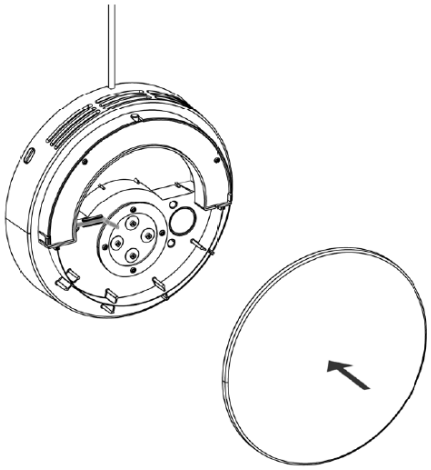


Figure 19 - Reattach the internal cover

8. The unit is now clean. Now you need to do a function test to make sure that everything is working as it should See section 5.6 on page 24 for further information.

9. Once you have conducted a function test, you can set the desired ventilation step.

5.5 Filter change

The unit has two filters which need to be changed every six months to maintain good air quality. The filters are located in front and behind the ventilation unit respectively. Both filters can be changed from the inside, so you do not have to go outside to change them.

You can conveniently combine the filter change with the thorough cleaning, see section 5.4.2 on page 17.

	NOTICE
	Please keep in mind that the unit weighs approx. 9 kg when removed from the wall.

	Make sure to have two new filters ready before starting. You CANNOT reuse them. You must use new filters when changing the filters.

1. Start by turning off the unit, see Figure 20 below. Wait 3 minutes until the unit has stopped rotating completely.

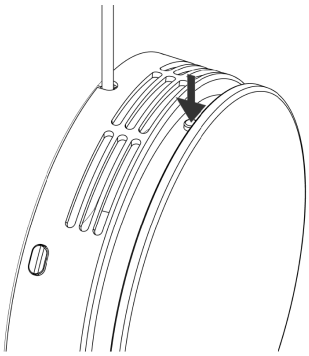


Figure 20 - Turn off the unit

2. Remove the internal cover. Take out the old filter and remove any dirt with a dry rag, see Figure 21 below. The spent filter can be disposed of as household waste.
   Replace the old filter with a new one. Be careful that the smooth side of the filter is placed facing the ventilation unit. Reattach the internal cover.

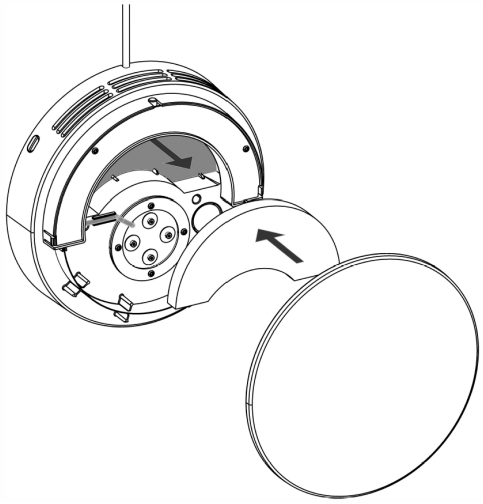


Figure 21 - Change the internal filter

3. Press down on the spring catches to make them release, see Figure 22 below.

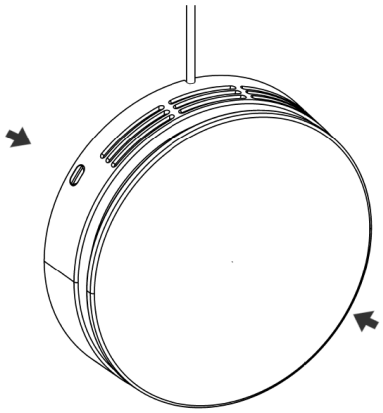


Figure 22 - Press down on the spring catches

4. Carefully pull the ventilation unit out of the wall and place it with the internal cover down on a level surface, e.g., a table or the floor, see Figure 23 below.
   It is important to place it on a level surface to avoid it falling over.

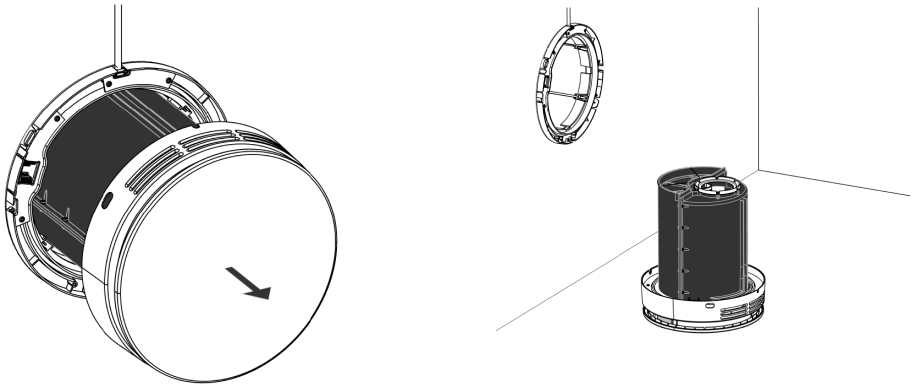


Figure 23 - Take the ventilation system out and place it down on the internal cover

5. Open the metal brace keeping the outside filter in place, see Figure 24 below.

   Take out the old filter and remove any dirt with a dry rag. The spent filter can be disposed of as household waste.
   Replace the old filter with a new one. Be careful that the smooth side of the filter is placed facing the ventilation unit.

   Close the metal brace onto the filter to keep it in place.

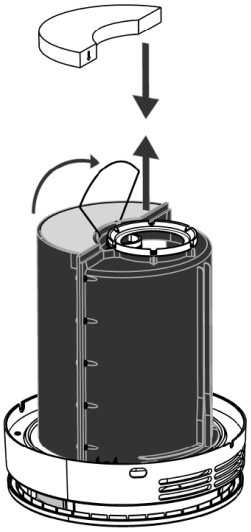


Figure 24 - Changing the outside filter

6. Place the ventilation unit back in the wall, and carefully press it all the way in until the spring catches make a click, see Figure 25 below.

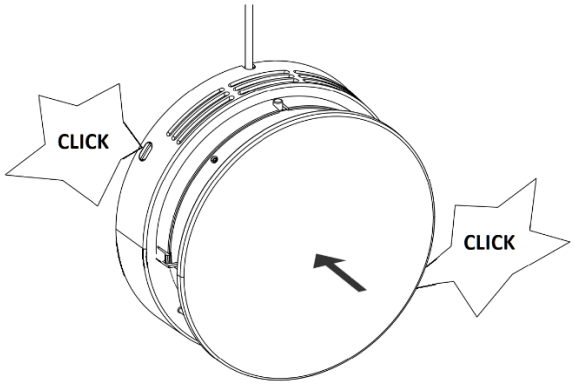


Figure 25 - The ventilation unit is placed back in the wall

7. The filters have now been changed. Now you need to perform a function test to make sure that everything is working as it should. See section 5.6 on page 24 for further information.

8. When you have conducted a function test, you need to reset the filter alarm. Turn on the unit and push the button down for 10 seconds, see Figure 26. The reset has been completed when a green light is lit for 2 seconds.

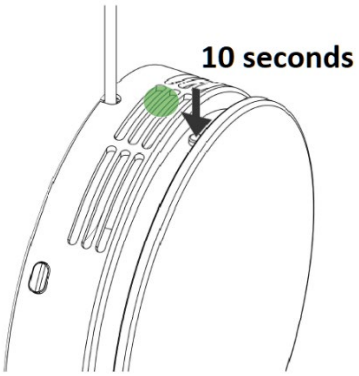


Figure 26 - Resetting the filter indicator

9. You can now set the desired ventilation step on the air handling unit.

5.5.1 Filter change indicator

Should the air handling unit be installed in an especially dirty room, e.g., a room in a basement, it might be necessary to change the filters more often.

Should this be the case, the air handling unit will flash a visual indication: it will flash red every 5 seconds. The indication will be shown on the ”back wall” through the grille, in the same location as you would see the green signal indicating ventilation step, see Figure 7 on page 13.

This filter change indicator also functions as a reminder for the six-month filter change.

When the filter change indicator appears, you can choose to extend it by 14 days by touching the turn on/off button. Should you extend the filter change by 14 days, it is important that you change the filters with the next reminder.

5.6 Function test

After the filter change and cleaning it is important to conduct a function test of the unit. This is done to make sure that it is functioning correctly.

1. Turn on the power

2. Touch the button on the top to start the unit, see Figure 27 below.
   The unit will now start at the lowest ventilation set. Let it run for ½-1 minutes on this step. Feel if there is mild airflow coming from the grates at the top and listen if it is running.

3. Press the button once more. This will make the AM 50 go to ventilation step 2. Let it run for ½-1 minutes on this step. Feel and listen again.

4. Press the button once more to select the next ventilation step. Let it run for ½-1 minutes on this step. Continue in this manner until you have been through all 6 ventilation steps.

5. Press one last time on the button to turn off AM 50.

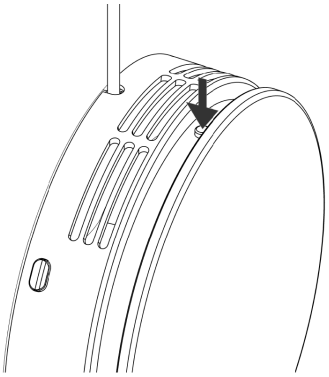


Figure 27 - Start the unit

The unit has now been tested and is ready for use, assuming it responded appropriately to the test.

If the unit did not respond appropriately to the test, you should contact the relevant maintainer.

6 Maintenance

Maintenance must be carried out by qualified personnel. It is only trained personnel, specialized in electrical equipment, who may test, troubleshoot, and work on the electrical system.

Safety instructions should be followed to the letter, see section 2 on page 6.

6.1 Maintenance schedule

Minimum every six months	Changing filters and thorough cleaning. See section 5.4.2 on page 17 and section 5.5 on page 20. This can also be done by the user.
Every 3. year	Cleaning and inspection of the ventilation unit.

6.2 Cleaning the ventilation unit

	NOTICE
	Please keep in mind that the unit weighs approx. 9 kg when removed from the wall.

	Make sure to have two new filters ready before starting. You CANNOT reuse them. You must use new filters when changing the filters.

	You can use compressed air to clean the ventilation unit.

1. Start by turning off the unit, see Figure 28 below. Wait 3 minutes until the unit has stopped rotating completely.

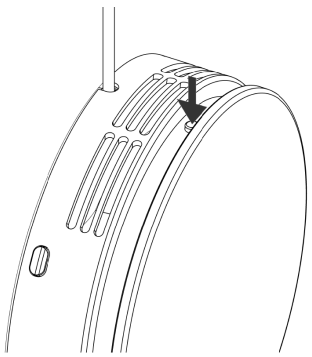


Figure 28 - Turn off the unit

2. Remove the internal cover. Take out the old filter and remove any dirt with a dry rag, see Figure 29 below. The spent filter can be disposed of as household waste.
   Reattach the internal cover. (Don't put a new filter in yet).

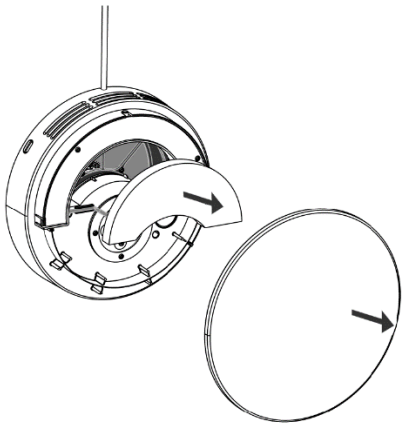


Figure 29 - Remove the internal filter

3. Press down on the spring catches to make them release, see Figure 30 below.

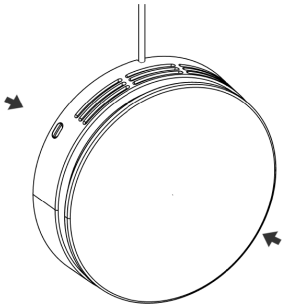


Figure 30 - Press down on the spring catches

4. Carefully pull the ventilation unit out of the wall and place it with the internal cover down on a level surface, e.g., a table or the floor, see Figure 31 below.
   It is important to place it on a level surface to avoid it falling over.

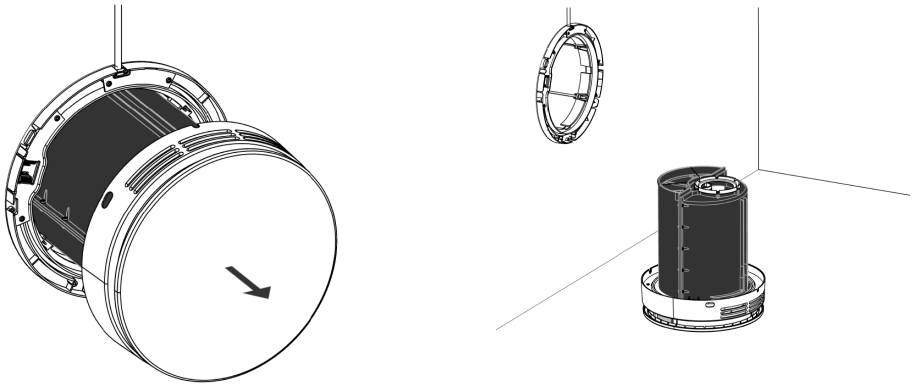


Figure 31 - Take the ventilation system out and place it down on the internal cover

5. Open the metal brace keeping the outside filter in place, see Figure 32 below.
   Take out the old filter and remove any dirt with a dry rag. The spent filter can be disposed of as household waste.

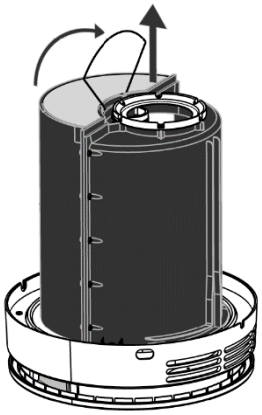


Figure 32 - Remove the outside filter

6. Place the ventilation unit down on a level surface. Detach the internal cover. Carefully blow on the ventilation unit from the outside part with compressed air to clean it, see Figure 33 below.

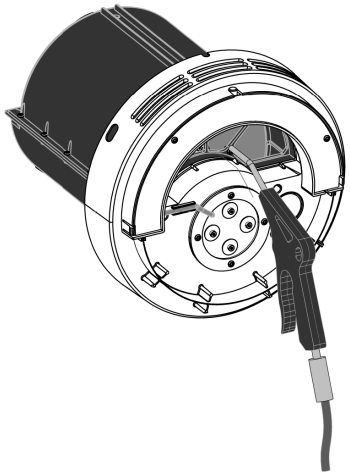


Figure 33 - Carefully clean the ventilation unit with compressed air

7. Reattach the internal cover and place the ventilation unit on its cover.
   Place a new filter in the unit. Be careful that the smooth side of the filter is placed facing toward the ventilation unit, see Figure 34 below.

   Close the metal brace onto the filter to keep it in place.

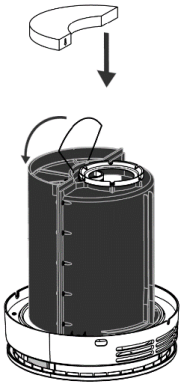


Figure 34 - Place a new outside filter in the ventilation unit

8. Place the ventilation unit back in the wall, and carefully press it all the way in until the spring catches make a click, see Figure 35 below.

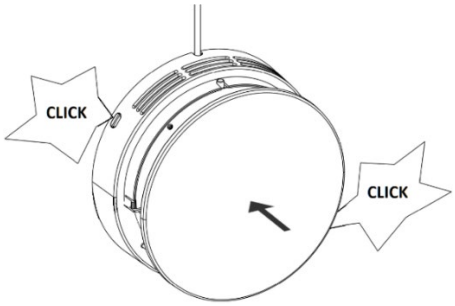


Figure 35 - The ventilation unit is placed back in the wall

9. Detach the internal cover and place a new filter in the unit. Be careful that the smooth side of the filter is placed facing the ventilation unit, see Figure 36 below.

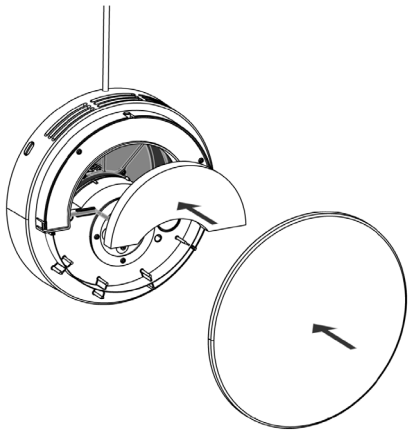


Figure 36 - Place a new internal filter in the ventilation unit

10. The air handling unit is now clean. Now you need to do a function test to make sure that everything is working as it should. See section 5.6 on page 24 for further information. When you have conducted a function test, you can set the desired ventilation step on the air handling unit.

6.3 Troubleshooting

Electrical connectors and wires can be checked while troubleshooting the unit

Check that:

- The wires connected to the unit are whole and undamaged.
- That the power switches on/off when the ventilation unit is pulled out of the wall and reinserted.
- That the unit starts and shuts off at the touch of the button for this purpose (see section 5.1 on page 12).
- That the 230V net supply cable is installed in accordance with the mounting manual.
- That the ventilation unit rotates freely.

Any loose connections or defective cables should immediately be replaced.

The integrated protection settings on the unit will make it automatically power off when encountering errors. Possible errors and explanations are described in Table 6 below.

Flashing indicator	Meaning	Solution
Three red flashes in a row	The unit ventilator, rotor, or other vital parts is experiencing issues.	Contact Airmaster
Two red flashes in a row	A temperature sensor is measuring a wrong value.	Contact Airmaster
1 red flash and two green flashes in a row	-	Contact Airmaster
Two red flashes in a row	The sensor for relative air moisture is measuring a wrong value.	Contact Airmaster
One red flash	The filters need to be changed	Se section 5.5 on page 20
Two red flashes when touching the ‘on’ button	The unit is in frost protection mode. The unit will automatically work as normal when the outside temperature returns to an acceptable level.	

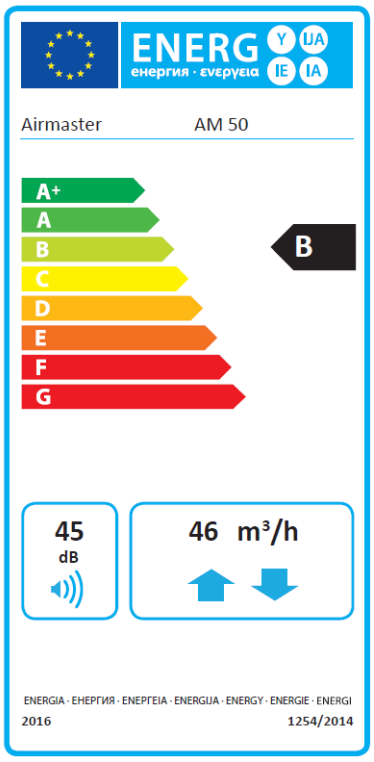
Table 6 - Troubleshooting

AIRMASTER

EU Declaration of Conformity

Manufacturer	Airmaster A/S Industrivej 59 DK-9600 Aars Denmark
	Herewith declare that the following air handling unit (series and type (serial numbers))
Product	AM 50 (0500001-0501720) AM 150 (3404252-3499999) AM 300 (3000006-3099999) AM 500 (0314234-0399999) AM 800 (0908896-0999999) AM 900 (0501721-0599999) AM 950 C (8100001-8199999) AM 950 F (8200001-8299999) AM 1000 (1002448-1099999) AM 1200 (0800422-0899999) AM 150 (3404252-3499999) with CC 150 (3600426-3699999) AM 500 (0314234-0399999) with CC 500 (1300768-1399999) AM 800 (0908896-0999999) with CC 800 (1400864-1499999)
	is in conformity with provisions of the following EC directives:
Directives	Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 of machinery. Directive 2014/30/EC of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility. Directive 2009/125/EC of the European Parliament and of the Council of 21 October 2009 establishing a framework for the setting of ecodesign requirements for energy-related products. Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
Reservation	This declaration is not valid if modifications are made to the product without approval by Airmaster A/S.
Place	Aars
Date	2025-04-30
Signature	Jesper Mogensen CTO

Appendix B Certificates



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