

## HR1 HEAT RECOVERY VENTILATOR

MUONIO HR1 device is a decentralized heat recovery ventilator. The HR1 ventilators can either work alone or together in pairs of two for optimum ventilation, heat recovery and air quality control.

The ventilators connect to the Muonio system using a Muonio G1 Gateway. Once connected they can be controlled wirelessly through the local area network (LAN) or over the internet.

The ventilators can either work in a demand-controlled alternating mode where they alternate between supplying or extracting air from the dwelling or as simple in/out ventilators where the user manually sets the ventilator to supply or extract mode.

The HR1 ventilator is part of a broader MUONIO system that combines ventilation with heating and cooling controls and brings comfort to your home.

# Introduction



This manual describes how to understand and install the HR1 ventilator.



The HR1 heat recovery ventilator is meant to work in combination with other MUONIO devices and it is not a stand-alone device.

## Warning & Information Symbols



CAUTION

The addition of this symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed. Obey all safety messages that follow this symbol to avoid possible injury or death.



DANGER

The Information symbol is used to address practices not related to physical injury and to indicate where useful facts will assist in installing or using the device correctly.

CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.



IMPORTANT INFORMATION

DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

IMPORTANT! Disregard will lead to permanent equipment damage!

Information! indicates an explanation containing information that is useful to know, a supplementary operating procedure, or other data.



Read the operating instructions carefully before using the device for the first time and preserve this booklet for later reference. Pass this manual on to whoever might acquire the device at a future date.



CAUTION

This device must not be operated by children and persons who are not able to operate the device safely due to their physical, sensory, or mental abilities or their inexperience or lack of knowledge. Children should be supervised to ensure that they do not play with the device.

Damage to the device: If the device is defective, do not attempt to repair it yourself. In case of damage, contact the manufacturer.



CAUTION

Any work to the ventilation device may only be carried out after disconnecting all poles of the supply voltage. The ventilation device is fitted with protective insulation according to Protection Class II, it does not require a safety connection to electrical earth (ground). Operating temperature and operating humidity: 5 °C to 40 °C, max. 90% RH



CAUTION

The electric connection may (only) be made by authorized qualified personnel and according to the applicable version of VDE 0100.

Always make sure that:

- no direct heat sources (e.g. radiators) can affect the device;
- the device is not exposed to direct sunlight or strong artificial light;
- contact with the spray, dripping water, and corrosive liquids is avoided and the device is never operated near water, in particular, the device may never be immersed in liquids.
- the device should never be placed near magnetic fields (e.g. loudspeakers);
- no fire hazards (e.g. burning candles) are placed on or near the device;
- no foreign bodies are introduced into the device;
- the device is not subject to excessive shocks and vibrations.



## Intended Use



CAUTION

This device is a ventilator. The device may not be used outdoors or in tropical climates. Only external devices that comply with safety standards and are compatible with this device in terms of electromagnetic compatibility and shielding may be used. This device fulfills all relevant norms and standards associated with CE Conformity. Any unauthorized modifications to the device may result in these directives no longer being met, and the manufacturer will not be liable for any damage or injury resulting from unauthorized modification. Only use the accessories recommended by the manufacturer.



This product must be fitted by a fully qualified competent person, and installation must comply with the guidance, standards, and regulations applicable to the country or state where the product is installed. Failure to comply with the requirements of the relevant guidance, standards, and regulations could lead to injury, death or prosecution.

Always isolate the AC mains supply before installing or working on any components that require 230 V~, 50 Hz supply.

## TECHNICAL INFORMATION

HR1 HEAT RECOVERY VENTILATOR

POWER SUPPLY TERMINAL

IEC C8 SOCKET

DIMENSIONS

SEE FIGURE 1

MOUNTABLE

160 MM DIAMETER PIPE

WEIGHT

3700 g

POWER SUPPLY

230 V ~, 50 Hz, Single Phase

VENTILATOR UNIT POWER SUPPLY

24 VDC

VOLUME FLOW

UP TO 50 M<sup>3</sup>/H FOR HEAT RECOVERY MODE

MAIN PARTS:

POWER SUPPLY UNIT,  
CERAMIC PART, WALL BASE

WIRELESS FREQUENCY

2.4 GHz

POWER CONSUMPTION

0.7 to 13 W AT 230 V ~, 50 Hz

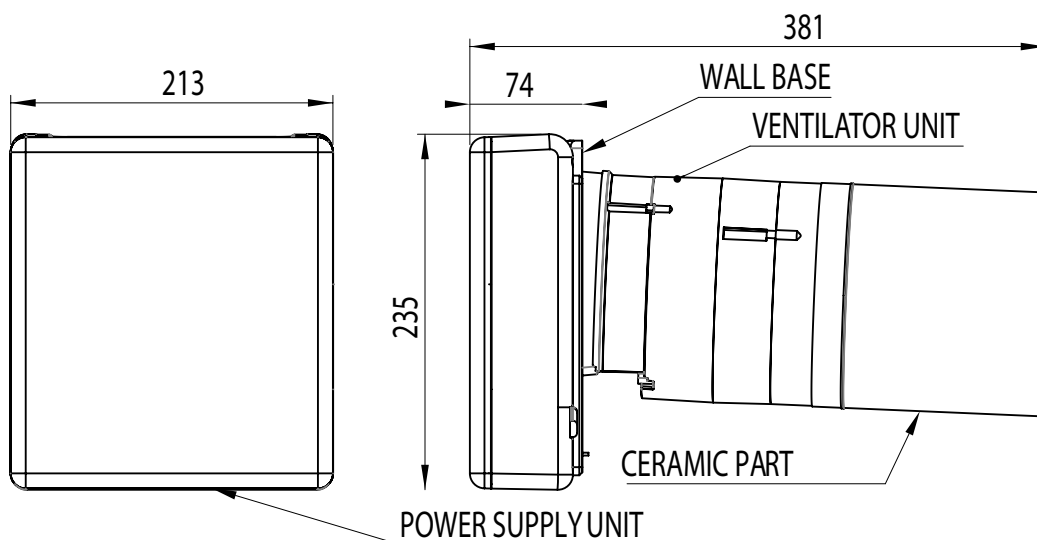


FIGURE 1. OVERALL DIMENSIONS

# Installation



## TUBE DIMENSION

The tube is installed in the wall and the in tube ventilator system is inserted.

160 mm X 3 to 3.2 mm ONLY\*

\* Varying from these dimensions may cause problems when installing the ventilator.

## LOCATION FOR VENTILATORS

HR1 ventilators work in pairs. They have 4 operating modes, OFF (the ventilator is shut off), IN (both ventilators are pulling fresh air into the building, effectively doubling the volume), OUT (both ventilators are pushing stale air out of the building, again, effectively doubling the volume), and AUTO where devices are working in alternating mode (in push/pull configuration\*\*). HR1 devices that are positioned too close to each other will not work properly. A minimum of 1.5 to 2 meters between devices is acceptable but for best result, install them on opposite sides of the room or in separate rooms. If you install the HR1 devices in separate rooms, make sure you have some free space above or below doors for air to migrate or grills on the doors. 10-15 mm below doors is sufficient. Keep the ventilators at about 210 cm height but not less than 30 cm from the ceiling.

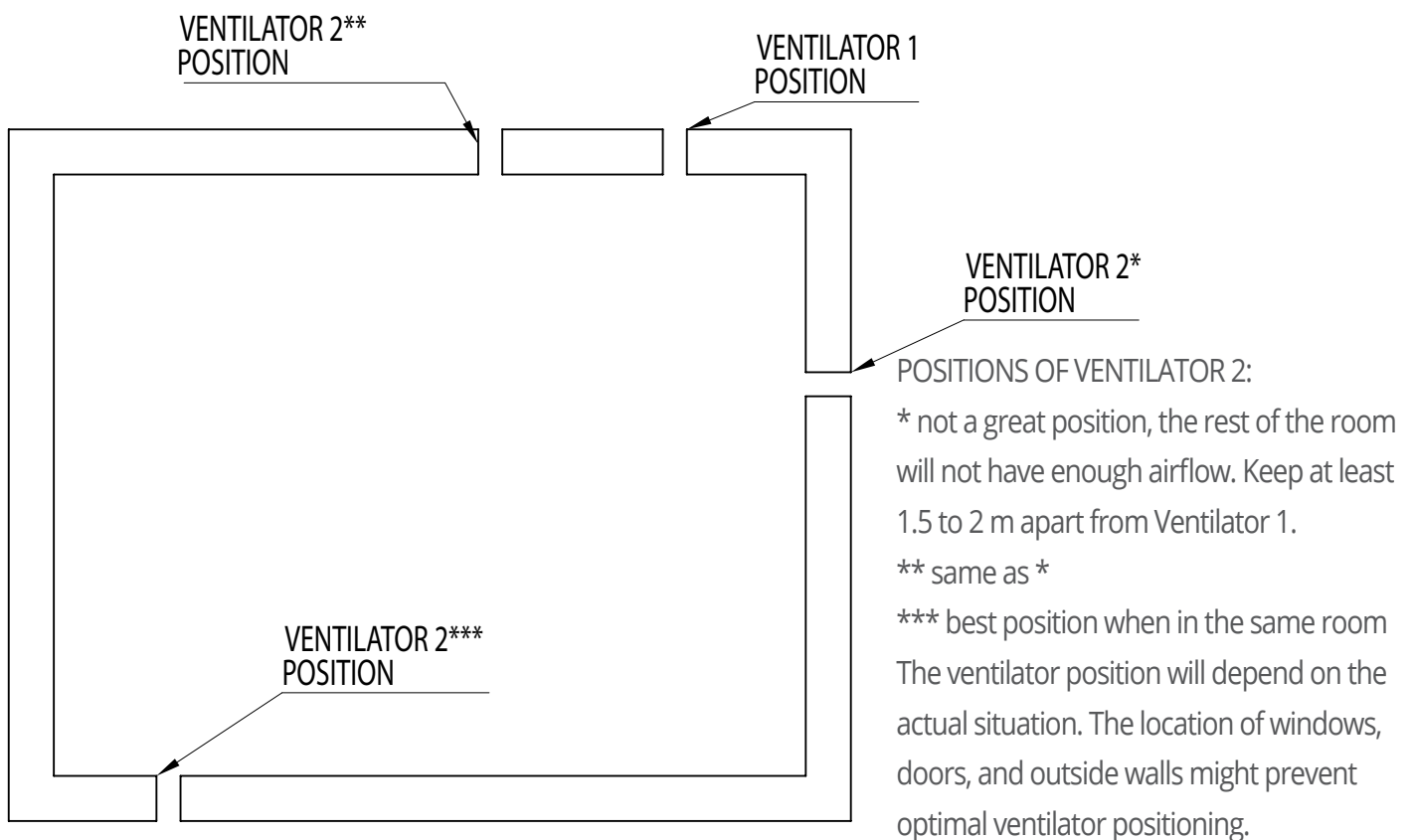


FIGURE 2. SAME ROOM LOCATION FOR VENTILATORS

# Installation

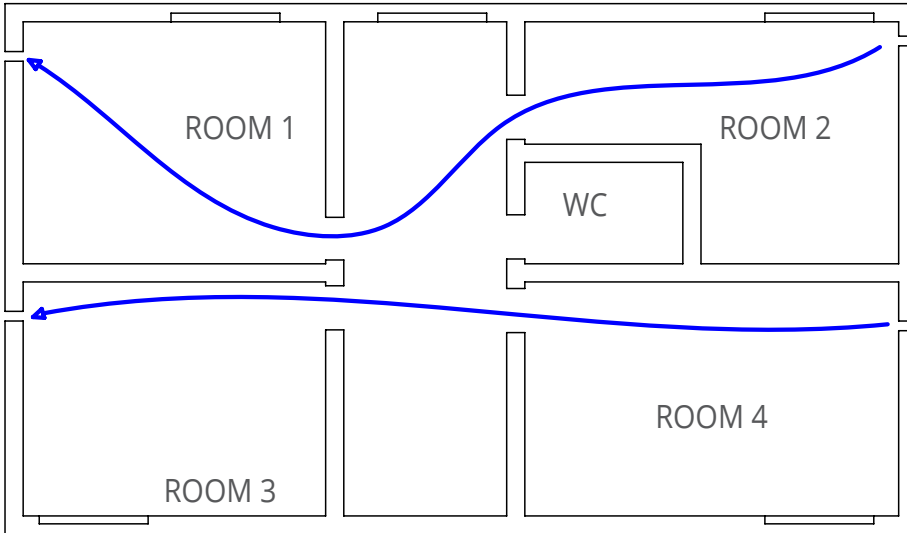


FIGURE 3. MULTI-ROOM LOCATION FOR VENTILATORS

If ventilators are positioned in separate rooms make sure that paired ventilators are logically positioned. Wet rooms like bathrooms or WCs should not be paired with any of the other rooms.

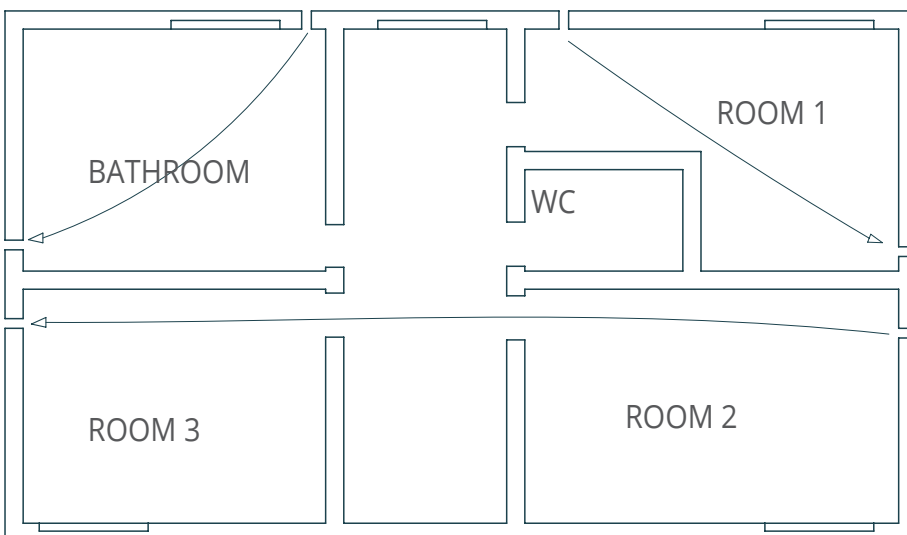


FIGURE 4. EXAMPLE FOR WET ROOMS

Wet rooms require the intake and exhaust are balanced for one room. It requires one pair of ventilators per room. The WC in Figure 4 has no outer walls and can not be ventilated with this system.

# Installation



## THE CONTENTS OF THE BOX - MAIN PARTS

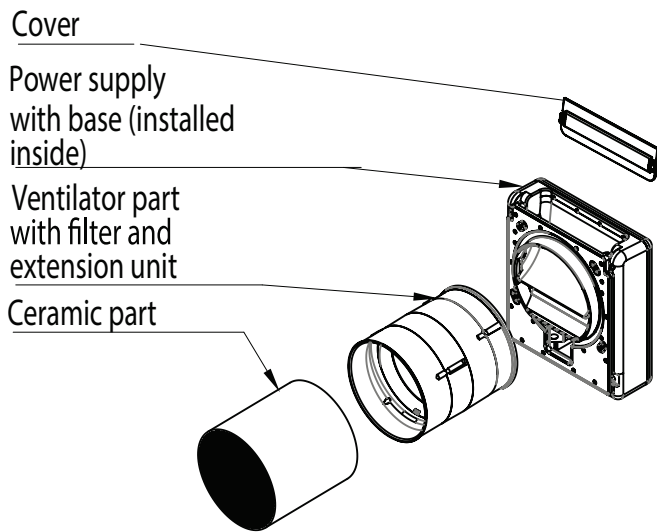


FIGURE 5. MAIN PARTS IN THE BOX

Pipe 160 mm x 3-3.2 mm

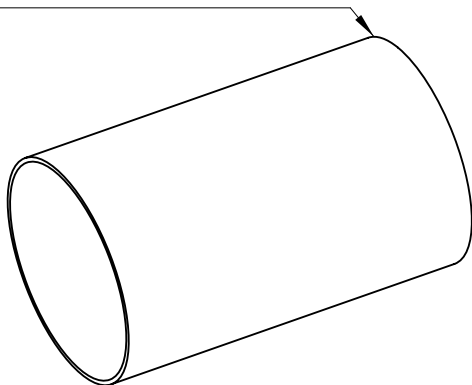


FIGURE 7. INSTALLATION PIPE - 400 MM

## OPTIONAL OUTER GRILL

If purchased it will arrive as a set that also includes an air filter.

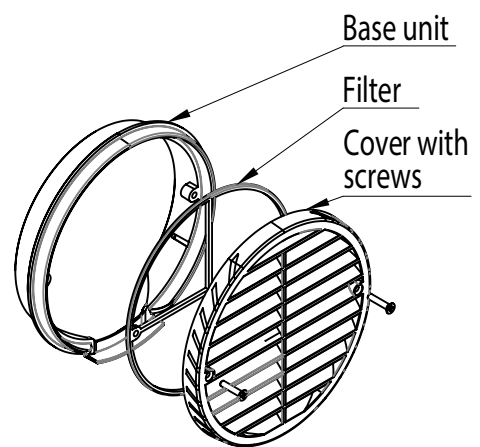


FIGURE 6. OPTIONAL OUTER

ADDITIONAL accessories included:

Power cable without socket (please use socket accordingly to local requirements)

RF cable for interconnecting

Interconnect cable

Manual

Insulation for fixing ceramic ring (insulation for ventilator part is not provided, please use 3 mm rubber foam for fixing the unit).

Besides the HR1 ventilator, you must have a GATEWAY G1 and AIR QUALITY SENSOR (AQS1) for the system to operate. The system can work as a single ventilator (In/Out) but this will half the efficiency when compared to a system working in pairs. The GATEWAY requires a connection to the router so it can be accessed over LAN but it is preferable to have internet access.

# Installation



## FAN ASSEMBLY

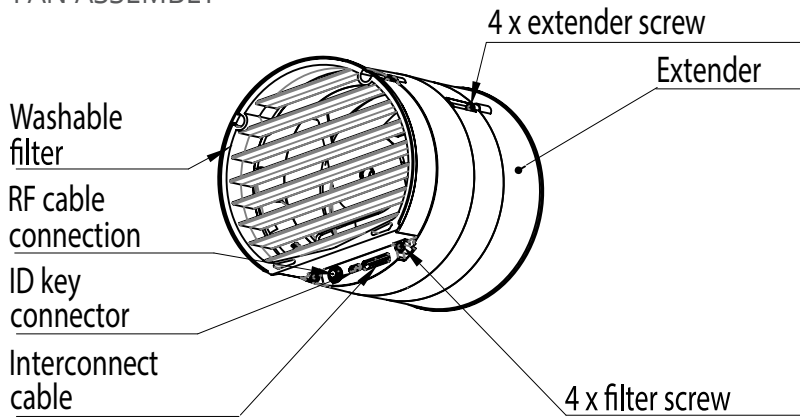


Figure 7. FAN ASSEMBLY DETAILS

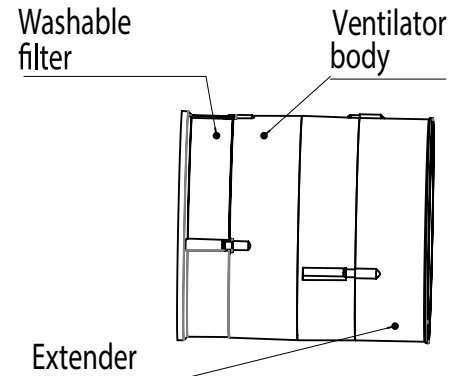
Washable Filter - can be washed, cleaned, or replaced. It is attached to the body by 4 screws. The system will let you know when you need to check the filter but a good rule of thumb would be two times a year.

RF SMA Connector - connect the cable that goes from fan assembly to inside power unit for the antenna connection. The antenna is positioned inside the power supply unit.

ID key Connector - Here you connect the ID key for connecting the device to the GATEWAY, For more information see the GATEWAY manual. After joining the device to a mesh network, the device will appear within the app.

Interconnect cable - connect the power supply unit to the fan assembly unit. This brings DC low voltage from the power supply unit to the fan assembly unit.

Extender - minimum assembly length is about 300 mm for an installed unit. If you have a shorter wall you can remove this part. The extender allows airflow distance to form properly between the blades and the ceramic ring. If you remove the extender you can shorten the assembly distance but you will have less optimal airflow and slightly increased noise levels. Extender length is 50 mm approx.



Net filter is inserted here

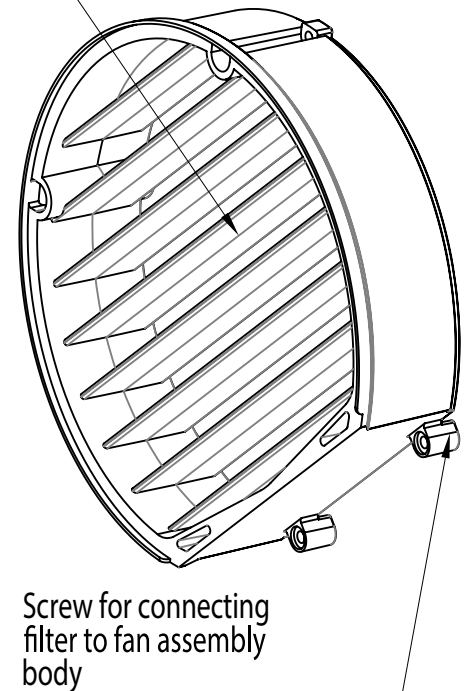


FIGURE 8. DETACHABLE FILTER

The filter type is G3 and is washable under water. If damaged, replace.

# Installation



## POWER SUPPLY UNIT ASSEMBLY

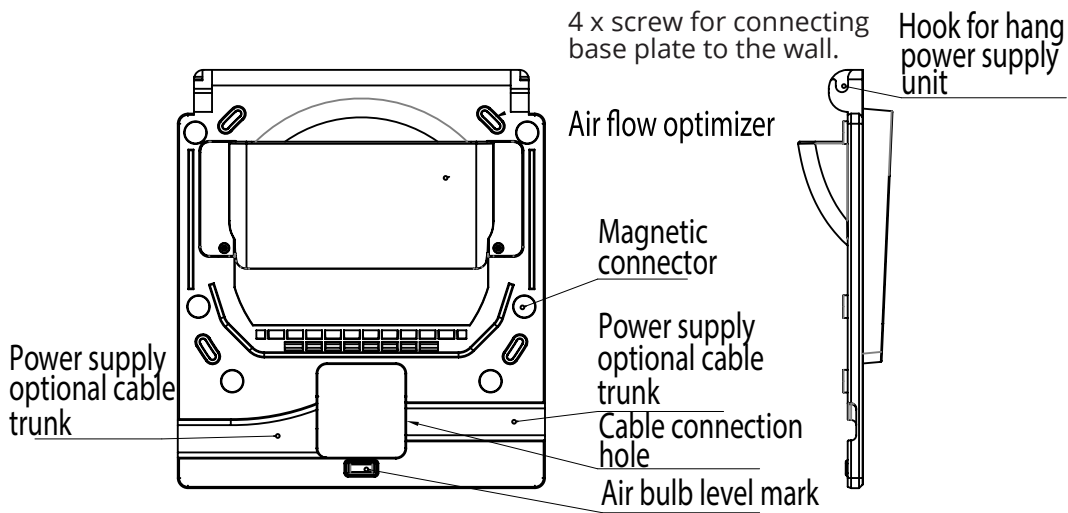


Figure 9. Backplate

The backplate is installed on the wall after the fan assembly has been inserted into the pipe. Use the center hole for wiring and 4 screws for installing the backplate to the wall.

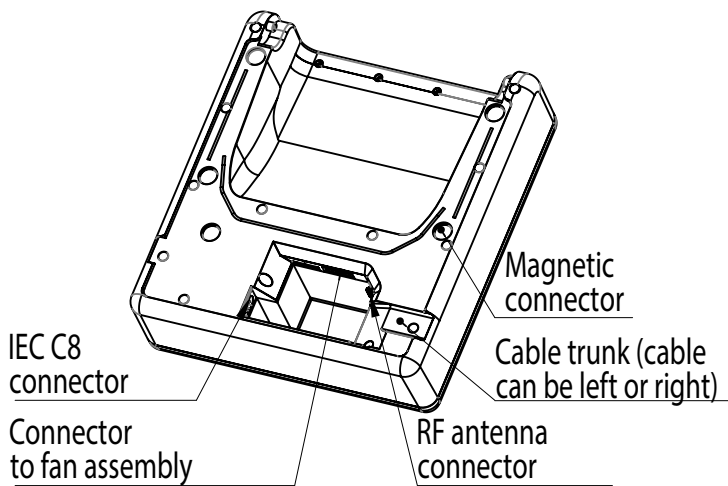


Figure 10. Power supply unit

Pay attention to connect the right cables to the fan assembly.

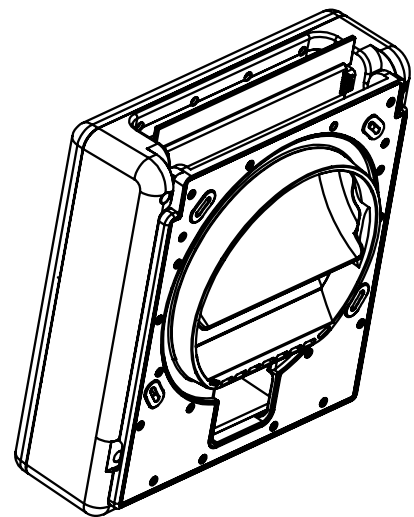


Figure 11. Assembled power supply unit



# Installation



## DRILLING THE HOLE

Drill wall openings with 162 mm drill. Shorten the tube to appropriate size but leave some space on both sides of the wall to allow for plaster etc. The tube must be coated on the sides with sealant and then inserted into the opening. While shortening the tube, take into consideration the slight slope of the tube so it is flat on both the inside and the outside the wall.

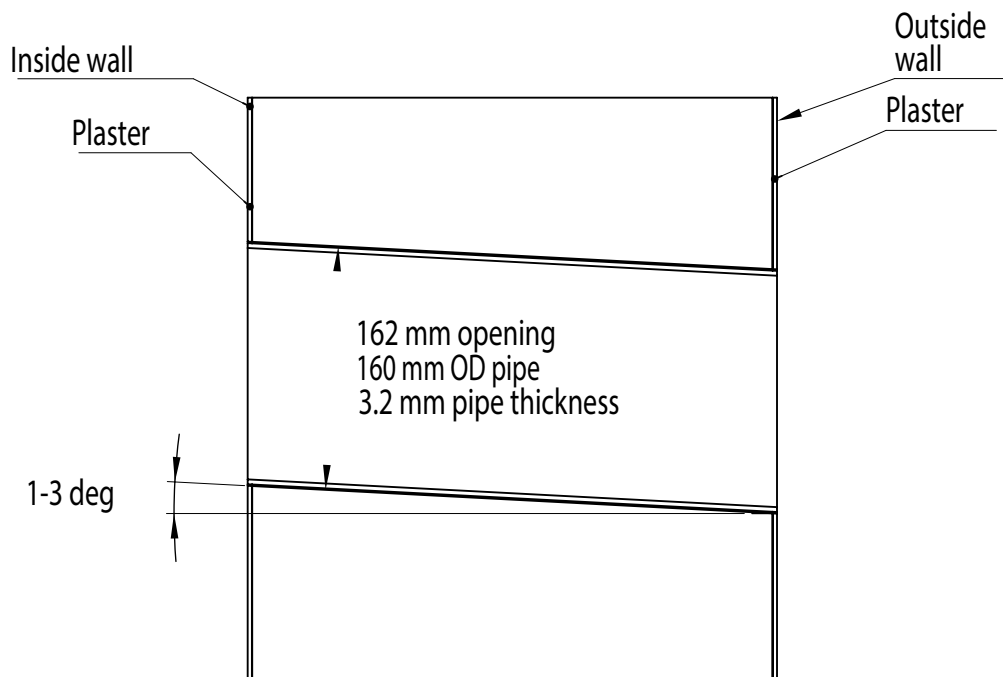


Figure 12. Wall setup

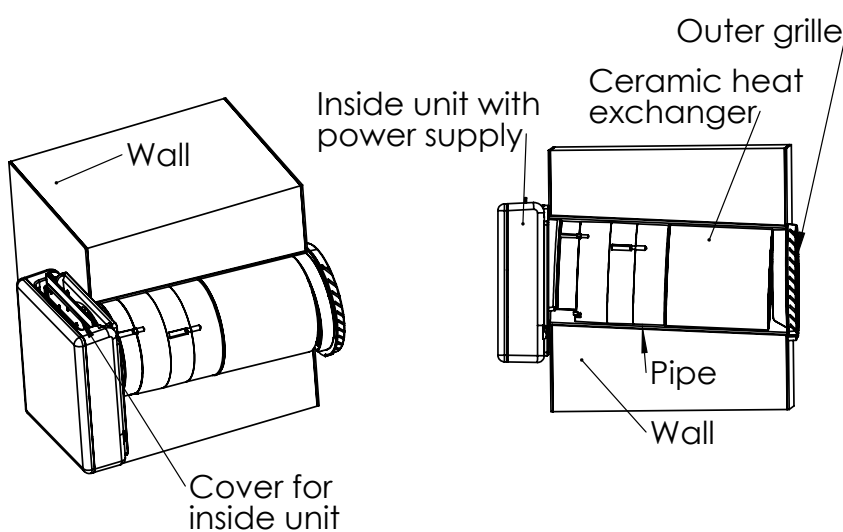


Figure 13. Assembled ventilator

## Installation:

Install the outer grille

Insert the ceramic heat exchanger into the pipe (including insulation)

Insert the ventilator part (including the insulation)

Insert the base on the top of the wall, connect the cables to the inside unit and connect the power supply.

To block draughts or when unit not in use for extended period, please use provided cover that can be positioned in two positions (horizontal and vertical) and thus blocks draughts if needed.

# Installation



## ELECTRICAL CONNECTIONS

HR1 requires 230 VAC / 50 Hz power supply (only). The power supply can be supplied from the left or the right of the ventilator or it can be brought in from behind the device (from the wall just below the lower part of the pipe).

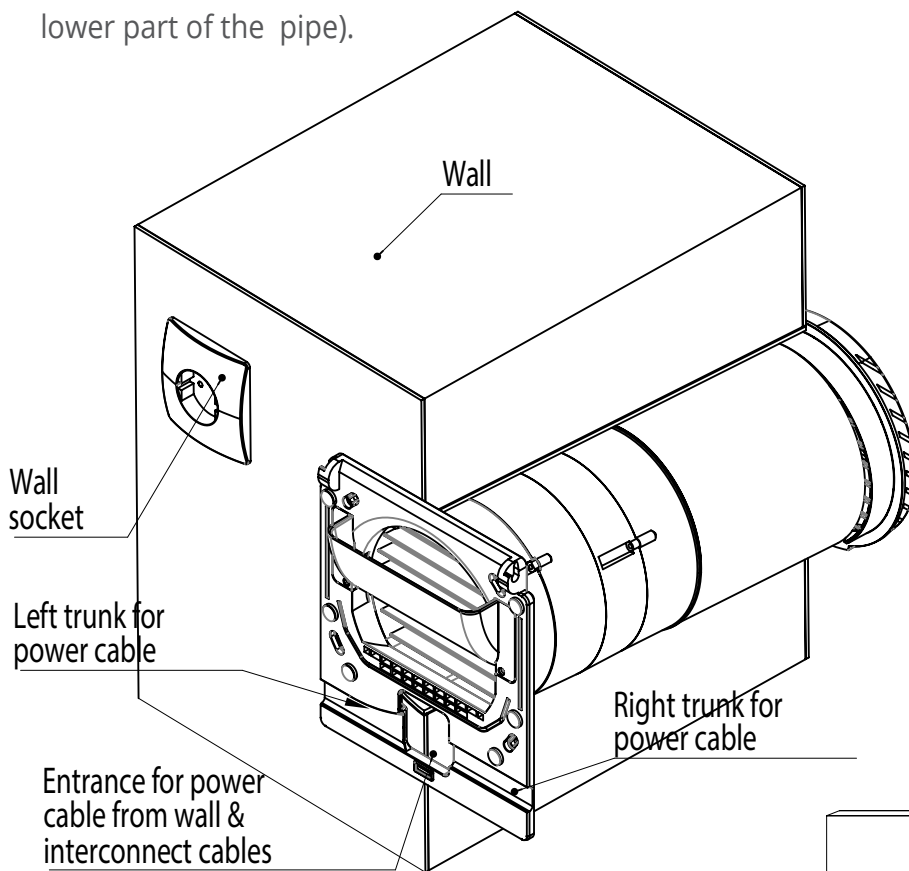


FIGURE 14. POWER CABLE ROUTING OPTIONS

Wall socket - can be left or right of the ventilator. A cable trunk is available on both sides to bring power in (FIG. 14).

ELECTRICAL CONNECTIONS FROM BEHIND (FIG. 15) - the power cable can be brought in from behind the HR1 ventilator, just below the pipe. Dimensions below the pipe are 46 X 28 mm. If you are connecting the cable from behind the device, use appropriate terminals (and approved) for connection.

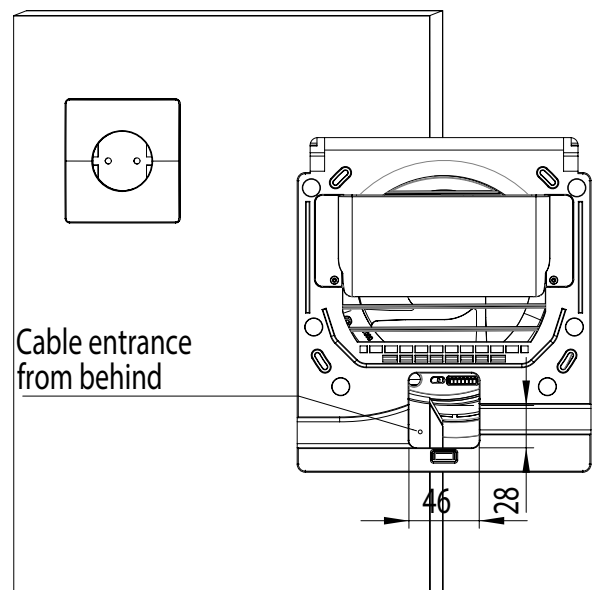


FIGURE 15. 230 VAC ELECTRICAL CONNECTIONS FROM BEHIND

# Installation



## OUTSIDE GRILL INSTALLATION

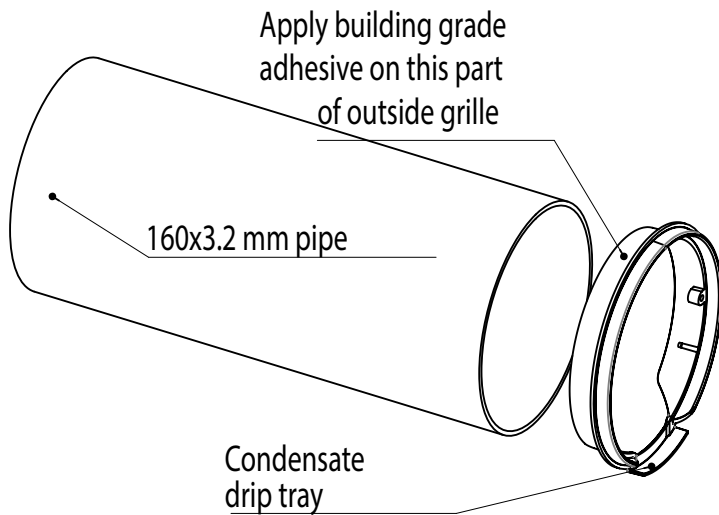


Figure 16. OUTSIDE GRILL

Apply adhesive on the base part of the outside grill. Let it dry. Seal all cracks so water can freely run through the drip tray. Install the filter and the grill on the top of the base (when the adhesive has cured) (see FIG.6).

## INSTALLING THE CERAMIC

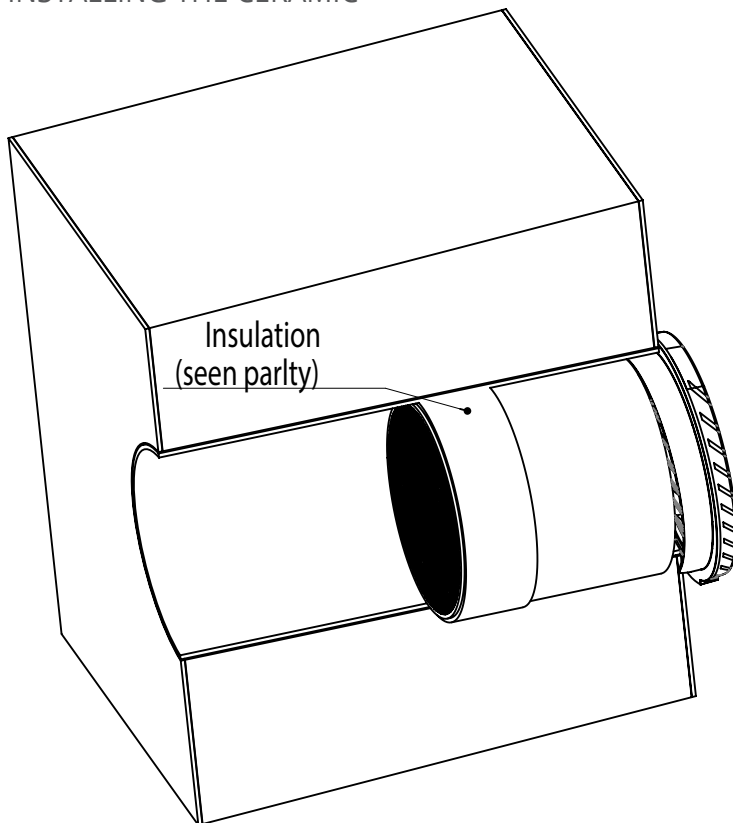


Figure 17. CERAMIC RING INSTALLED`

Before inserting the ceramic ring into the pipe, make sure that you have the rubber insulation installed over the ceramic ring. Then insert it into the pipe. If the outside grill is installed (you can install it before or after the ventilator part), be careful not to push it out. Do not push the ceramic ring all the way in as you want to allow the ventilator part to align fully with the ceramic part. Insulation thickness is 6 mm. In some cases, while cleaning the pipes/filters it may be necessary to replace the insulation (if damaged or worn by time).



## Installation for ventilation part

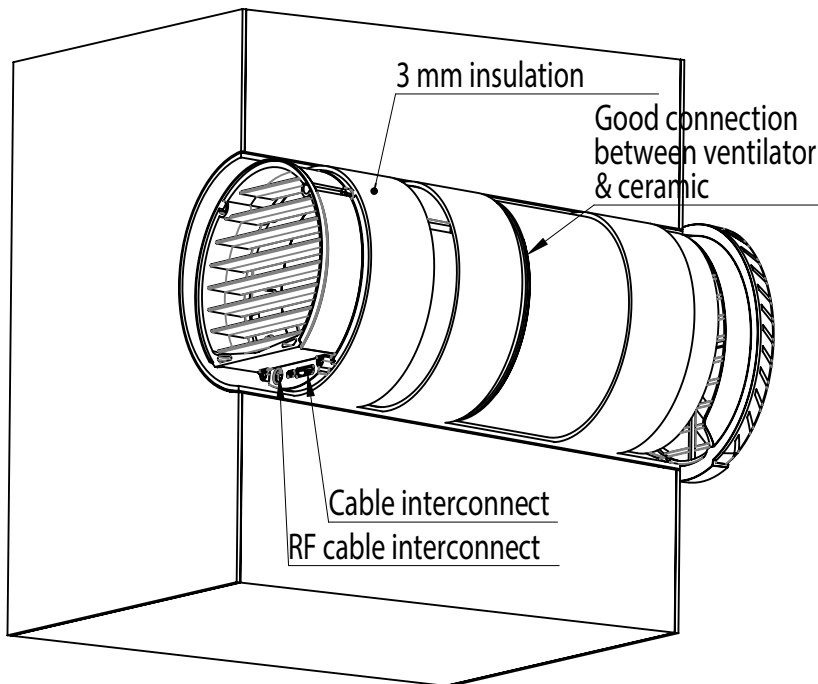


Figure 18. VENTILATOR INSTALLED  
Baseplate installation

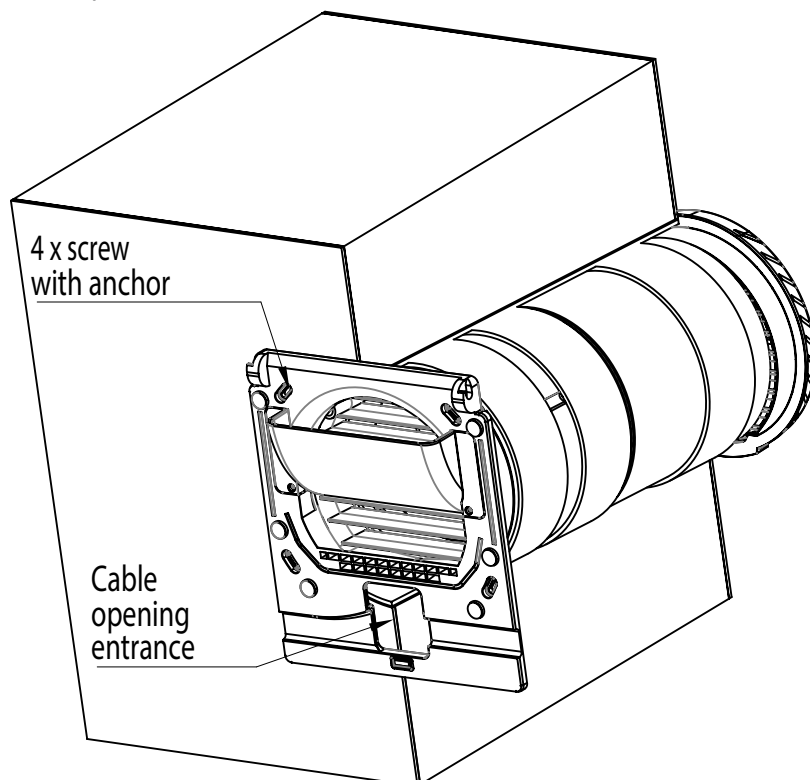


Figure 19. BASEPLATE INSTALLED

After installing the ceramic ring prepare the ventilator part by installing 3 mm insulation and connecting cables from the ventilator part but not from the inside unit part. Before that, make sure that the ventilator is already joined to the network by inserting the ID KEY (see page 14 in this manual for software installation and see the Gateway manual on how the ID Key operates). Push the ventilator towards the ceramic ring so it pushes the ceramic ring down the pipe and properly connects to the ventilator part without any air gaps. Such connection enables smooth airflow through the pipe.

When inserted, the filter section should be around 5 -10 mm into the wall to allow for a good connection between the base and the filter. Cables are inserted through the air gap.

Note: Before inserting the ventilator into the pipe, make sure you have prepared 4 holes with anchors to secure the base plate.

After the ventilator part is installed put the BASEPLATE in place. Do not forget to make 4 screws with anchors so you can fix the BASEPLATE to the wall. The best practice is to do it before installing the parts in the duct.

Make sure the cables go through the opening entrance. Use a spirit level level to ensure that the unit is positioned correctly.

# Installation



Installation for the inside unit part

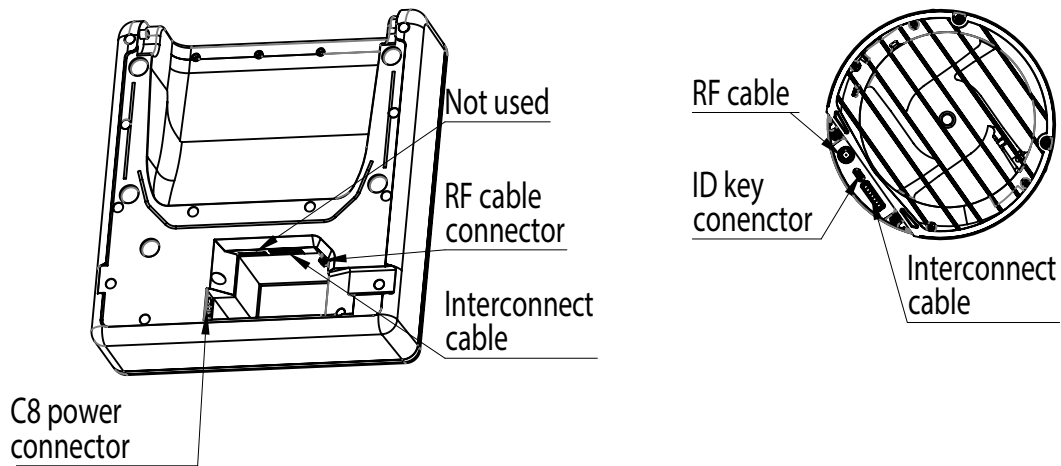


Figure 20. CONNECTORS BETWEEN THE INSIDE UNIT AND THE VENTILATOR

Before placing the inside unit connect the corresponding cables:

RF cable

Interconnect cable

Insert the power cable to the C8 power connect. Power can be supplied to the device from outside the unit or from behind the unit in the wall. If supplied from behind the device you need to adapt the power cable to interconnect it.

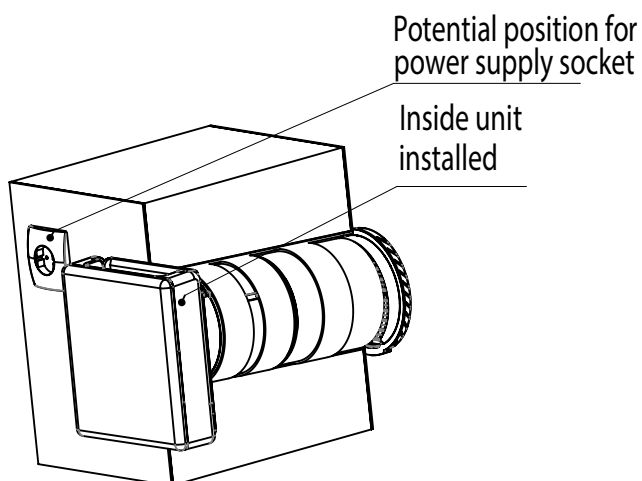


Figure 20. COMPLETE UNIT

Insert the top part of the inside unit with all cables attached to the base plate. Allow the inside unit to slide into the base plate. If done correctly, the magnets will join the device together.



## SOFTWARE SETUP FOR VENTILATOR UNIT

How to join the ventilator device to the network by using the ID KEY

Before the HR1 ventilator will respond to controls it must be joined to the mesh network created by the Muonio G1 Gateway. For more information see the Muonio G1 Gateway manual. Each gateway can support up to 6 HR1 ventilators, working in 3 pairs of 2 units.

Program the ID KEY (see GATEWAY manual), make sure the GATEWAY has power and that it is connected to the router.

Insert programmed ID KEY into the ventilator while POWER is OFF, then power ON the ventilator. If done correctly the ventilator will join the network. Wait a minute until it is shown in the app. If the device is new it should be shown within the SETTINGS page under UNPAIRED devices.

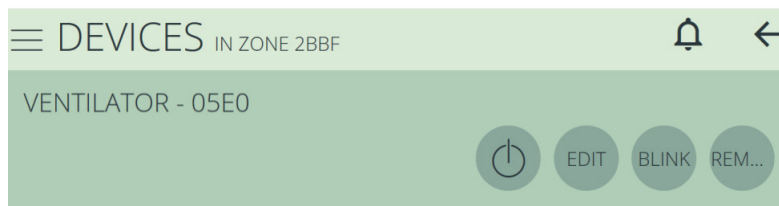


Figure 21. THE VENTILATOR IS SHOWN IN UNPAIRED DEVICES ON THE SETTINGS PAGE

Join the ventilator device to the zone

You will require at least 1 Muonio G1 Gateway and 1 Muonio AQS1 Air Quality Sensor to operate the HR1 ventilator.

The GATEWAY is required to organize the system for devices working together and at the same time communicating to the server. An AIR QUALITY SENSOR is required to create a ZONE in which an HR1 ventilator device can operate. The AIR QUALITY SENSOR can also be used for heating/cooling applications.

The AIR QUALITY SENSOR must be joined to the mesh network at the same time as the ventilator. To join the HR1 ventilator to a zone, go to the SETTINGS page and click the AQS icon

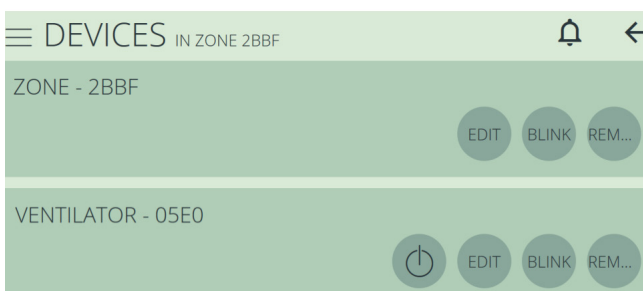


Figure 22. A VENTILATOR IS SHOWN IN THE ZONE AS AN UNPAIRED DEVICE AND AVAILABLE TO JOIN THE ZONE

# Software setup



Now you can join the ventilator device to a particular zone by pressing the ON/OFF button and as in the picture below.

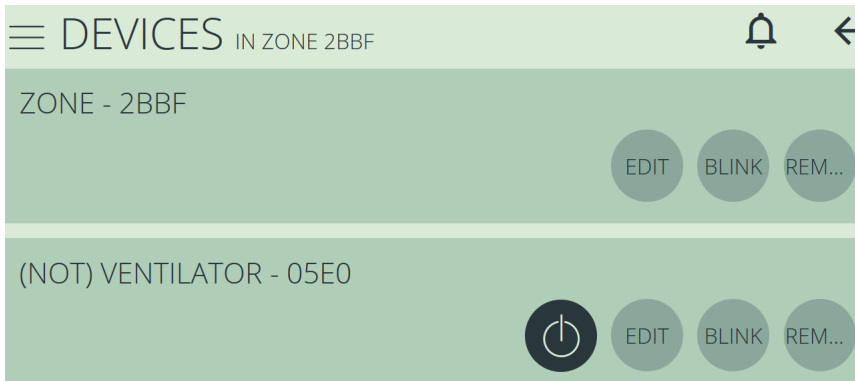


Figure 23. A VENTILATOR SHOWN IN A ZONE AS A PAIRED DEVICE

If the process is completed successfully, on the HOME page you will see the ventilator controls icon under that particular zone. When you click on that zone within the HOME page you will have access to the ventilator controls/setpoints.

Note: Each zone can support up to two ventilators. A zone can have one ventilator, but it won't be able to work in the alternating push-pull mode, therefore, it will be less efficient.

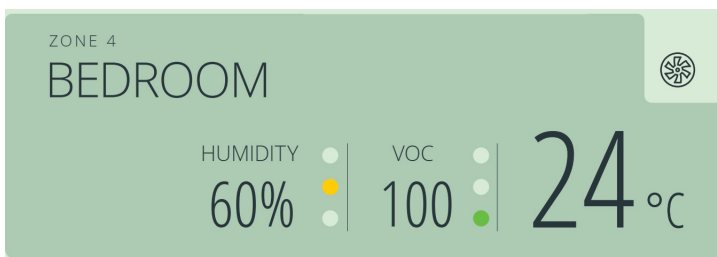


Figure 24. A ZONE SHOWN AT HOME PAGE WITH VENTILATOR ICON ON TOP RIGHT PART OF THE PICTURE

## Ventilator controls

By clicking a ZONE on the HOME page you will have access to the ventilation controls for that zone.

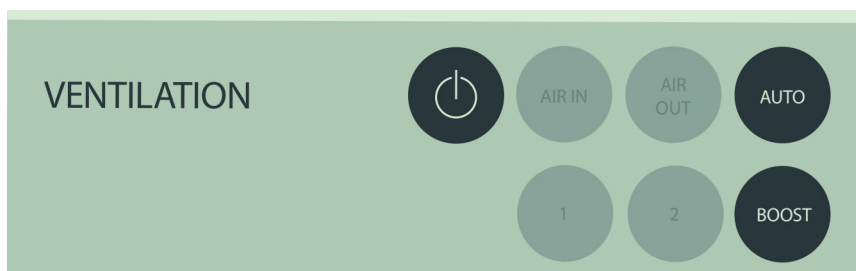


Figure 25. THE VENTILATION CONTROLS FOR A ZONE

OFF - ventilation system is turned OFF.

IN - both ventilators are bringing fresh air into the house.

OUT - both ventilators are taking stale air out of the house.

AUTO - both ventilators work together in an alternating push/pull mode.

# Software setup



AUTO (alternating) mode is the only model that works as per determined setpoints. IN and OUT modes are manual modes only. If working in the AUTO (alternate) mode, both units added to the zone are synchronized and working in opposite directions with 60-80 seconds alternation time (depending on the fan speed chosen).



Figure 26. SETPOINT FOR VENTILATION

Depending on the AIR QUALITY SENSOR you have, you can have humidity only setpoint or humidity and VOC setpoints. The system will turn on the HR1 ventilators in AUTO mode if the humidity or VOC are higher than the setpoints.

## TIPS:

Before installing the ventilators, add all ventilators to the network. Then determine the zones for each ventilator and place them in the spaces they will operate after installation. Power up all ventilators. See if there are any problems with radio connectivity/distance etc. Typically 10-15 meters of distance between devices is not a problem but that distance is not guaranteed and can depend on many factors (thickness of the wall, wet places inside barriers, metal barriers, etc.) so the best practice is to test before installation. If there is no radio signal you can add another router point between the device that is too far away. All devices except the AIR QUALITY SENSOR act as a router, so the furthest point can be routed through a midpoint device and not necessarily connected directly to the GATEWAY (which can greatly extend system coverage overall). Allow some time and follow how data is being received by the server at the bottom of the SETTINGS page (Internet Connection required). If the connection is not good, the devices will come in and out of the network frequently. Sometimes just re-positioning of the device antennas can help.



# Software setup



## TIPS:

For wet rooms use 2 ventilators in pairs if possible, if not this system is not suitable for wet rooms.

Create logical air pathways between ventilators, especially if the building is too big for one pair. The Air Quality Sensor can be placed in one room only. If the ventilator is in the other room, it will follow commands and setpoints from the room where the sensor is located.

Once you have the setup done, it is good practice to write below your actual settings for future reference. In this case, if someone accidentally changes settings, you will have a reference starting point.

## MANUAL CONTROLS

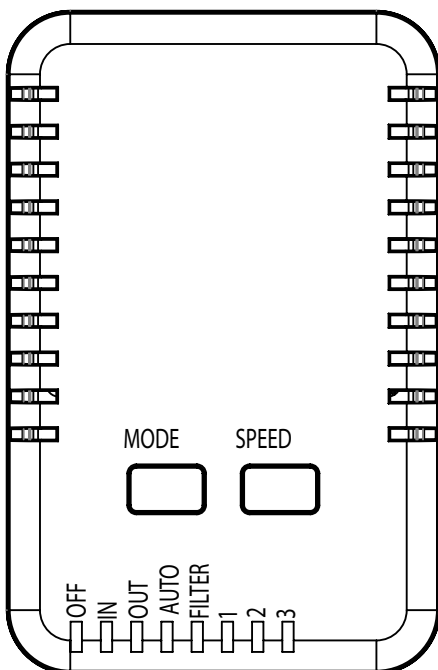


Figure 27. MANUAL CONTROLS FOR VENTILATION.

If a particular zone controls an HR1 ventilator device, it is possible to control that device locally from the Air Quality Sensor.

Press any button to allow the sensor to retrieve information.

Then press MODE to change the mode of work (OFF, IN, OUT, AUTO) or the SPEED button to change the fan speed of the ventilators associated with the sensor. There is also one additional LED that will glow if the filter needs cleaning. LEDs do not show data indication unless a button is pressed to preserve the battery.

If the ventilator is not present in the zones these buttons will not be operational.

# Software setup



ZONE 1	MAC ADDRESS	_____	NAME	_____
ZONE 2	MAC ADDRESS	_____	NAME	_____
ZONE 3	MAC ADDRESS	_____	NAME	_____
ZONE 4	MAC ADDRESS	_____	NAME	_____

ZONE _____	TYPE _____	MAC ADDRESS _____	NAME _____
ZONE _____	TYPE _____	MAC ADDRESS _____	NAME _____
ZONE _____	TYPE _____	MAC ADDRESS _____	NAME _____
ZONE _____	TYPE _____	MAC ADDRESS _____	NAME _____
ZONE _____	TYPE _____	MAC ADDRESS _____	NAME _____
ZONE _____	TYPE _____	MAC ADDRESS _____	NAME _____
ZONE _____	TYPE _____	MAC ADDRESS _____	NAME _____
ZONE _____	TYPE _____	MAC ADDRESS _____	NAME _____
ZONE _____	TYPE _____	MAC ADDRESS _____	NAME _____

TYPE : HR1- HEAT RECOVERY VENTILATOR, UVL - UV-C DISINFECTION UNIT

FIGURE 28. ZONES SETUP

DATE \_\_\_\_\_

CUSTOMER SIGNATURE \_\_\_\_\_

## Warranty

### WHAT DOES THIS WARRANTY COVER?

THIS APPLIANCE HAS BEEN MANUFACTURED WITH CARE AND WAS METICULOUSLY EXAMINED BEFORE DELIVERY. THIS LIMITED MANUFACTURER WARRANTY COVERS ANY DEFECTS OR MALFUNCTIONS IN MATERIAL AND MANUFACTURING WORKMANSHIP OF ALL PARTS SUPPLIED BY MOUNIO UNDER NORMAL USE AND SERVICE WHEN OPERATED AND MAINTAINED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR THE DURATION OF THE WARRANTY PERIOD. PLEASE RETAIN YOUR PROOF OF PURCHASE (SALES RECEIPT) FOR THE DURATION OF THE WARRANTY PERIOD OFFERED.

ALL SPARE PARTS SUPPLIED BY MOUNIO AND PURCHASED BY THE END USER ARE WARRANTED TO BE FREE FROM FAULTY MATERIAL OR DEFECTIVE WORKMANSHIP FROM THE DATE OF SALE TO THE ORIGINAL PURCHASER FOR 12 MONTHS.

ALL PARTS WARRANTY CLAIMS MUST INCLUDE A COPY OF THE PURCHASE INVOICE TO THE END USER.

MOUNIO CANNOT CONSIDER CLAIMS FOR WHICH SALES INVOICES ARE NOT AVAILABLE.

THIS WARRANTY IS NOT TRANSFERABLE.

HOW LONG DOES THE COVERAGE LAST?

DEVICE IS WARRANTED FOR FOR 12 MONTHS FROM DATE OF PURCHASE.

WHAT WILL MOUNIO DO?

THE WARRANTY OFFERED BY MOUNIO IS LIMITED TO THE MAKING GOOD BY REPAIR OR REPLACEMENT FOR THE PURCHASER ANY PART OR PARTS FOUND, UPON EXAMINATION AT ITS FACTORY, EXCLUDING SHIPPING CHARGES, TO BE DEFECTIVE UNDER NORMAL USE AND SERVICE DUE TO DEFECTS IN MATERIAL OR WORKMANSHIP.

IF A PROBLEM ARISES WITH A MOUNIO UNIT, IT MUST HAVE AN IMMEDIATE REPAIR. CONTINUED USE OF THE MOUNIO UNITS AFTER A PROBLEM HAS OCCURRED MAY HAVE SAFETY IMPLICATIONS AND CAN RESULT IN FURTHER COMPONENT FAILURE, FOR WHICH MOUNIO CANNOT BE HELD LIABLE.

RETURNED PARTS MUST BE COMPLETE AND UNEXAMINED. PACK THE COMPONENT(S) CAREFULLY TO AVOIDED ANY DAMAGE IN TRANSIT. CERTAIN COMPONENT PARTS, ELECTRICAL ITEMS, FOR EXAMPLE, MAY REQUIRE PARTICULAR CARE WHEN PACKING TO AVOID DAMAGE IN TRANSIT.

WHAT DOES THIS WARRANTY NOT COVER?

THIS WARRANTY DOES NOT EXTEND TO ANY MOUNIO PRODUCT THAT HAS BEEN MODIFIED OR ALTERED IN ANY WAY.

THIS PRODUCT IS NOT INTENDED TO BE PURCHASED AND INSTALLED BY UNREGISTERED HEATING ENGINEER CONTRACTORS AND ELECTRICAL CONTRACTORS. THIS WARRANTY DOES NOT COVER PRODUCTS OR PARTS PURCHASED FROM ANY SOURCE OTHER THAN LICENSED HVAC OR ELECTRICAL CONTRACTORS. THIS WARRANTY DOES NOT COVER PARTS INSTALLED BY UNREGISTERED INSTALLERS OR CONTRACTORS.

THIS WARRANTY DOES NOT APPLY TO ANY PART OF THE GOODS SUBJECTED TO IMPROPER OR ABNORMAL USE, OR ANY USE OTHER THAN ITS INTENDED USE, ACCIDENT, ACTS OF GOD, NEGLIGENCE, OR FROM IMPROPER OPERATION, ALTERATION, MODIFICATION, FITMENT OF NON-GENUINE PARTS, ACCIDENT DAMAGE, OR DAMAGE RESULTING FROM IMPROPER OPERATION, MAINTENANCE, INSTALLATION, WIRING OR NON-COMPLIANCE WITH INSTALLATION INSTRUCTIONS, DAMAGE CAUSED BY FOREIGN OBJECTS, FAILURE DUE TO LACK OF MAINTENANCE, USE OF INCORRECT FUSE PROTECTION, OR WHICH HAS SERVED ITS NORMAL LIFE.

THE WARRANTY EXCLUDES REPEAT OR ADDITIONAL REPAIRS RESULTING FROM INCORRECT DIAGNOSIS OR POOR-QUALITY PREVIOUS REPAIR WORK.

MOUNIO SHALL HAVE NO RESPONSIBILITY FOR CHARGES INCURRED BY THE CUSTOMER FOR INSTALLATION OR REMOVAL OF WARRANTED ITEMS.

THIS WARRANTY DOES NOT COVER PARTS OR EQUIPMENT USED WITH MOUNIO UNITS THAT MOUNIO DOES NOT MANUFACTURE OR SUPPLY AS PART OF THEIR PRODUCT.

CONSEQUENTIAL AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY. THE WARRANTY PERIOD WILL NOT EXTEND TO THE UNIT OR TO REPLACED OR REPAIRED PARTS THROUGH REPAIRS MADE UNDER WARRANTY DURING THE WARRANTY PERIOD. THE MANUFACTURER ASSUMES NO LIABILITY FOR ANY HARM, WHICH MAY OCCUR AS A RESULT OF THE USE OF THE EQUIPMENT HEREIN AND SHALL NOT BE LIABLE FOR CONSEQUENTIAL OR ANY OTHER DAMAGES WHETHER OR NOT CAUSED BY MANUFACTURER'S NEGLIGENCE OR RESULTING FROM ANY EXPRESS OR IMPLIED WARRANTY OR BREACH THEREOF. CONSEQUENTIAL DAMAGES FOR THE PURPOSE OF THIS WARRANTY SHALL INCLUDE, BUT NOT BE LIMITED TO, LOSS OF USE, INCOME OR PROFIT, OR LOSS OF OR DAMAGES TO PROPERTY OR INJURY OR DEATH TO PERSONS OR ANIMALS OCCASIONED BY OR ARISING OUT OF OPERATION, USE, INSTALLATION, REPAIR OR REPLACEMENT OF THE EQUIPMENT OR OTHERWISE.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.

IT IS HEREBY CLARIFIED THAT AFTER THE STANDARD WARRANTY PERIOD, CALL-OUT CHARGES WILL BE APPLICABLE FOR ALL CALL-OUTS WITH THE COST WILL BE BORNE BY THE CUSTOMER.

WARRANTY DOES NOT COVER CHANGES OF THE PRODUCT SETTINGS BY THE USER OR ANY DAMAGE RESULTED AS FROM SUCH CHANGES.

DAMAGE TO NEW

ALL MOUNIO PRODUCTS MUST BE EXAMINED ON RECEIPT; PLEASE EXAMINE ALL UNITS AND PACKAGING, ANY CLAIMS IN RESPECT TO THE DELIVERED PRODUCTS, INCLUDING VISIBLE DEFECTS, QUANTITY SHORTAGES OR INCORRECT PRODUCT SHIPMENTS, MUST BE MADE WITHIN TEN (10) DAYS OF DELIVERY. FAILURE TO NOTIFY SELLER IN WRITING OF ANY VISIBLE DEFECTS IN THE PRODUCTS OR OF QUANTITY SHORTAGES OR INCORRECT SHIPMENTS WITHIN SUCH PERIOD SHALL BE DEEMED UNQUALIFIED WAIVER OF ANY RIGHTS TO RETURN PRODUCTS ON THE

BASIS OF VISIBLE DEFECTS, SHORTAGES OR INCORRECT SHIPMENTS.

NO CLAIMS WILL BE ACCEPTED AFTER THIS TIME.

FAILED FANS & ELECTRICAL CONTROLS

ANY FANS & ELECTRICAL CONTROL UNITS FITTED TO ANY MOUNIO UNIT THAT FAILS DURING THE FIRST TWELVE MONTHS OF WARRANTY MUST BE RETURNED TO US UNEXAMINED. WE WILL REJECT THE WARRANTY IF THEY HAVE BEEN DISMANTLED. THIS ONLY APPLIES TO THE FIRST TWELVE MONTHS OF WARRANTY.

HOW DO YOU GET SERVICE?

TO BE ELIGIBLE FOR SERVICE UNDER THIS WARRANTY YOU MUST RETURN THE WARRANTY REGISTRATION CARD INCLUDED IN THE PACKAGING WITHIN 30 DAYS OF INSTALLATION OF THE MOUNIO PRODUCT. IF SOMETHING GOES WRONG WITH YOUR PRODUCT, CALL US TO RECEIVE A RETURN MERCHANDISE AUTHORIZATION (RMA) AND INSTRUCTIONS FOR RETURNING THE PRODUCT TO A LICENSED DISTRIBUTOR IN YOUR AREA OR DIRECTLY TO THE MANUFACTURER.

ONCE THE PRODUCT IS RETURNED, WE WILL INSPECT YOUR PRODUCT AND CONTACT YOU WITHIN 10 BUSINESS DAYS OF OUR RECEIPT OF THE PRODUCT TO GIVE THE RESULTS OF OUR INSPECTION. IF WE DETERMINE THAT THE PRODUCT IS COVERED UNDER THIS WARRANTY, WE WILL SHIP A REPLACEMENT TO YOU AT NO ADDITIONAL COST. REPLACEMENT PARTS MAY BE REFURBISHED. IF WE DETERMINE THAT THE PRODUCT IS OUTSIDE WARRANTY CONDITIONS, OR THAT THIS WARRANTY IS VOID, WE WILL RETURN THE PRODUCT TO YOU WITH CASH ON DELIVERY TERMS. THERE IS NO CHARGE FOR INSPECTION.

ANY FAULT MUST BE REPORTED TO AN AUTHORISED MOUNIO DEALER AS SOON AS IT OCCURS. CONTINUED USE OF A UNIT, AFTER A FAULT HAS OCCURRED, CAN RESULT IN FURTHER COMPONENT FAILURE OR INJURY FOR WHICH MOUNIO CANNOT BE HELD LIABLE.

ALL CLAIMS MUST BE SUBMITTED, BY AN AUTHORISED MOUNIO SERVICE DEALER, WITHIN 30 DAYS OF THE DATE OF REPAIR.

IN THE EVENT OF A CLAIM, PROOF OF THE SERVICE WORK CARRIED OUT BY A SUITABLY QUALIFIED TECHNICIAN IS REQUIRED.

THE CUSTOMER SHALL PROVIDE A REASONABLE, SAFE AND ACCESSIBLE WORKING ACCESS THE APPLIANCES FOR MAINTENANCE AND SERVICE PERSONEL.

ANY REPAIR OR MAINTENANCE WORK OUTSIDE THE SCOPE OR PERIOD OF THE WARRANTY SHALL BE CHARGED TO THE CUSTOMER.

THE WARRANTY IS NOT EFFECTIVE UNLESS THE SELLING DEALER REGISTERS THE UNIT, VIA THE MOUNIO WEBSITE AND CONFIRMS THE REGISTRATION TO THE PURCHASER BY COMPLETING THE CONFIRMATION FORM IN THE INSTALLATION MANUAL.

LIMITATION OF LIABILITY

MOUNIO DISCLAIMS ANY EXPRESS (EXCEPT AS SET FORTH HEREIN) AND IMPLIED WARRANTIES CONCERNING THE GOODS INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

MOUNIO MAKES NO WARRANTY AS TO THE DESIGN, CAPABILITY, CAPACITY OR SUITABILITY FOR USE OF THE GOODS.

EXCEPT AS PROVIDED HEREIN, MOUNIO SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY OTHER PERSON OR ENTITY CONCERNING ANY LIABILITY, LOSS, OR DAMAGE CAUSED OR ALLEGED TO BE CAUSED DIRECTLY OR INDIRECTLY BY THE GOODS INCLUDING, BUT NOT LIMITED TO, ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES RESULTING FROM THE USE OR OPERATION OF THE GOODS OR ANY BREACH OF THIS WARRANTY. NOTWITHSTANDING THE ABOVE LIMITATIONS AND WARRANTIES, THE MANUFACTURER'S LIABILITY HEREUNDER FOR DAMAGES INCURRED BY THE PURCHASER OR OTHERS SHALL NOT EXCEED THE PRICE OF THE GOODS.

NO ACTION ARISING OUT OF ANY CLAIMED BREACH OF THIS WARRANTY OR TRANSACTIONS UNDER THIS WARRANTY MAY BE BROUGHT MORE THAN ONE (1) YEAR AFTER THE CAUSE OF THE ACTION HAS OCCURRED.

MISCELLANEOUS

EXCEPT AS PROVIDED HEREIN, NO EMPLOYEE, AGENT, DEALER OR OTHER PERSON IS AUTHORISED TO GIVE ANY WARRANTIES OF ANY NATURE ON BEHALF OF MOUNIO.

MOUNIO MAY WAIVE COMPLIANCE WITH ANY OF THE TERMS OF THIS LIMITED WARRANTY, BUT NO WAIVER OF ANY TERMS SHALL BE DEEMED TO BE A WAIVER OF ANY OTHER TERM.

HOW DOES STATE LAW APPLY?

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS.

APPLICABLE LAW MAY PROVIDE RIGHTS AND BENEFITS TO THE PURCHASER IN ADDITION TO THOSE PROVIDED HEREIN, WHICH MAY VARY FROM STATE TO STATE.

IF ANY PROVISION OF THIS LIMITED WARRANTY SHALL VIOLATE ANY APPLICABLE LAW AND IS HELD TO BE UNENFORCEABLE, THEN THE INVALIDITY OF SUCH PROVISION SHALL NOT INVALIDATE ANY OTHER PROVISIONS HEREIN.

PLEASE RETAIN YOUR PROOF OF PURCHASE (SALES RECEIPT) FOR THE DURATION OF THE WARRANTY PERIOD OFFERED.



## Disposal of Old Devices



Devices marked with this symbol are subject to European Directive 2002/96/EC. All electric and electronic devices must be disposed of separately from household waste at official disposal centres. Avoid hazards to the environment and dangers to your personal health by disposing of the device properly. For further information about proper disposal, contact your local council, waste disposal office or the shop where you bought the device.

## SYSTEM NOTES

DATE \_\_\_\_\_

CUSTOMER SIGNATURE \_\_\_\_\_

Local Agent

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