USER BOOK

MVHR K.A.W.A. VENT

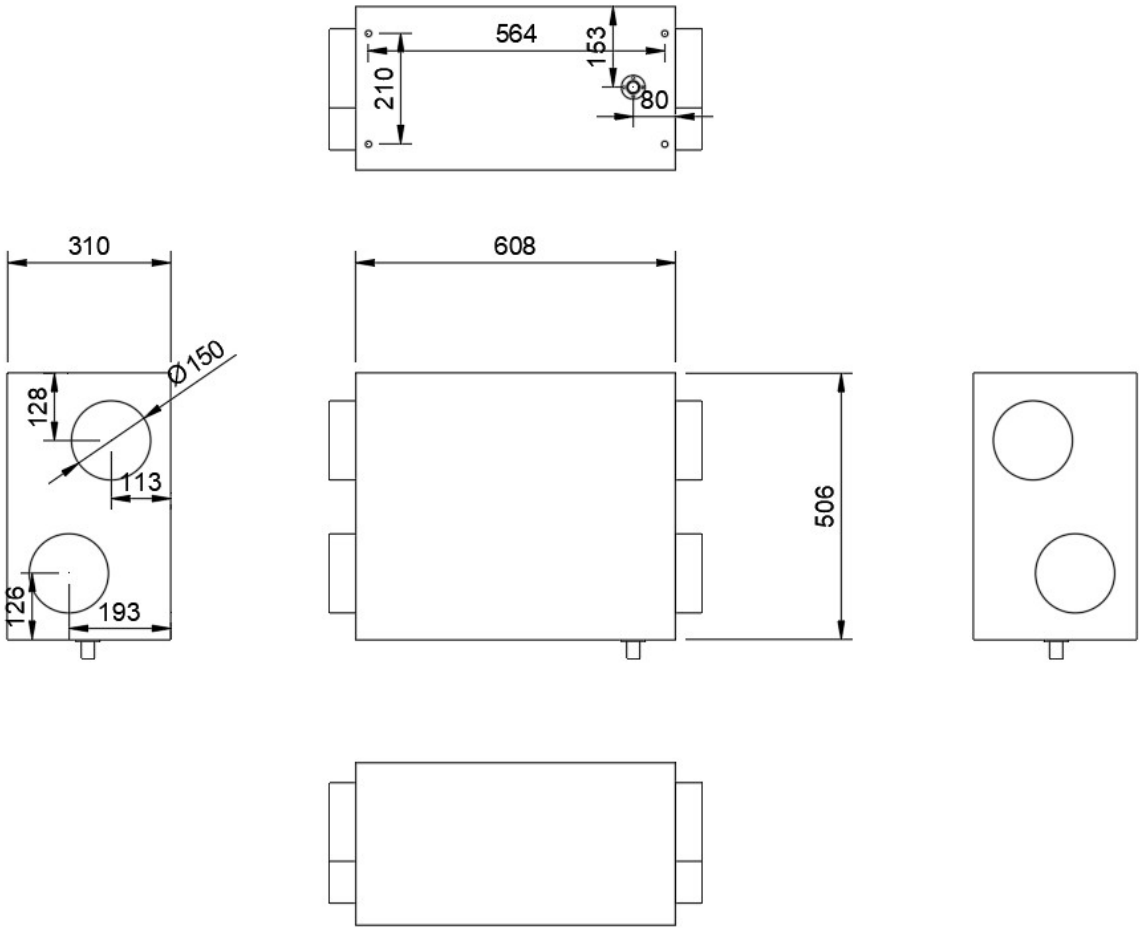
CCF500H-WIFI

INDEX

Connection Guaidline and fitting instructions

This unit was build as „H” type with means all ducting conections are on both sides. Suction section is located on left and pushing section on righ hand side. See pic.

device dimensions



H 506 mm

W 608 mm

D 310 mm

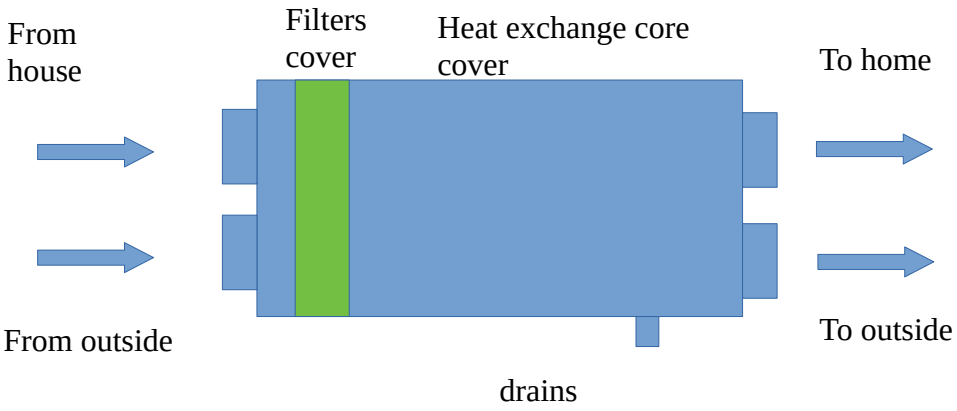
required installation space

H + 50 top + 120 bottom mm

W + size of ducting with installation

D + 50 back mm

Front access required for filters change and service.



Airflows

Power set %	speed	m3/h	L/s	Noise	Watts	w/m3/h	W/L/s
10	0,25	15,90	4,42	30,00	13,00	0,818	2,944
20	0,70	44,51	12,36	30,00	13,30	0,299	1,076
30	1,80	114,45	31,79	40,00	15,40	0,135	0,484
40	3,00	190,76	52,99	42,00	20,00	0,105	0,377
50	4,10	260,70	72,42	45,00	26,67	0,102	0,368
60	5,20	330,64	91,85	49,00	39,41	0,119	0,429
70	6,30	400,59	111,27	52,00	57,10	0,143	0,513
80	7,00	445,10	123,64	56,00	86,00	0,193	0,696
90	7,50	476,89	132,47	59,00	118,00	0,247	0,891
100	8,00	508,68	141,30	61,00	140,00	0,275	0,991

Fitting options:

Floor stand legs

The ventilation unit is equipped with height-adjustable legs. This allows you to place the entire device on the floor or any other hard and stable surface. The height of the legs allows for the condensate pipe to be connected to the drain.

Remember to place the MVHR unit in a place accessible to the service technician and user. You must always be able to freely replace filters and operate the device if necessary. Adjust the length of the legs so that the drain is slightly lower or level.

Wall bracket

If positioning the device on the floor is not satisfactory for the user, it is possible to hang the ventilation unit using a wall hanger. This is a universal element and is not included with the device. Remember that the hanger should have adequate strength and be stable. The device has mounting places for legs. These are threads for M8 screws. Screw in maximum 20mm. Unscrew them and place the device on a hanger. You may need the help of another person. The unit may be too heavy for one person. Especially when the installation is in a tight place. Adjust the hanger so that the drain is slightly lower or level.

Connection to mains electricity

The device has a standard mains plug.

The electric cable is approximately 2 m long.

5A fuse in the plug

If permanent installation is desired, follow electrical requirements.

Condensate drain connection

The device has a drain installed at the bottom. The drain is designed for a 21.5mm waste pipe. It is possible to connect a larger pipe diameter, e.g. 22 mm, without using a reduction.

To make a water tight connection between the pipe and the drain, insert the pipe inside and seal. To seal, you can use bathroom silicone or permanently connect them with pipe cement. A spare drain is available from the manufacturer if necessary.

Quick start guide

1. Place the unit on a stable, flat surface or hang it securely, ensuring a slight slope towards the drain
2. Connect the ducting as described
3. Connect the cable from the WiFi box to the device if it is available as a separate device
4. Plug in to main and turn on - switch on the unit housing
5. Connect your phone tablet laptop etc to the device's wifi network - make sure your device remains on this network
6. Open a web browser, enter the IP in the address bar and confirm
7. You can change the operating parameters of the ventilation unit
8. Check the filters regularly - replace them approximately every 3 months

Programs selecting

Using the wall controller

The ventilation unit can operate in several modes. Normal High and Manual Boost are available. To activate the appropriate operating mode, use the rotary switch. It allows you to select the operating mode without having to change settings using WiFi. This is intended to make the use of the ventilation unit as easy as possible for every resident of the house.

Third-party drivers can also be connected in a similar way. See the special section on this.

Connection with other home automation systems

The ventilation unit is controlled by shorting two pins, the so-called dry switch. It is possible to control the machine in this way using third-party controllers/programmers. The condition is that the wires are connected correctly in a way that imitates a rotary switch. In this way, any device that can short-circuit pins to act as a dry switch can be used instead of a rotary switch. Please remember that incorrect connection of cables is inconsistent with the warranty conditions.

Only dry switch is allowed.

By default, the device is programmed via a generated website. If necessary, it is possible to send commands via another controller. The condition for correct operation is to use identical commands as the default ones. Contact the manufacturer for a list.

Care and use

Changing filters:

Filters should be replaced according to wear. Check the filters regularly if your device does not have a filter dirty indicator. It is a good practice to check it once a month and replace it every three months.

Not all ventilation units of this series are equipped with filter presence sensors. If so, it will be marked on the housing. There is a potential risk of something falling into the machine when removing the filter, so turn off the power before carrying out any work.

1. Pull the filter housing out of the machine

2. Open the filter housing

3. Replace the dirty filter material with a new one
4. Assemble and close the filter housing
5. Insert the filter housing with the new filter back into the ventilation unit

Cleaning heat exchanger

The ventilation unit is equipped with a plate heat exchanger. It is made of waterproof material.

In normal operation, there is no need to remove the entire exchanger from the device housing. However, to maintain maximum occupational hygiene, it is recommended to remove the exchanger from the device at least once a year and wash it with warm, but not hot, water with a light detergent. You may observe a change in the color of the exchanger from white to more yellow. This is normal for this type of material and does not affect performance.

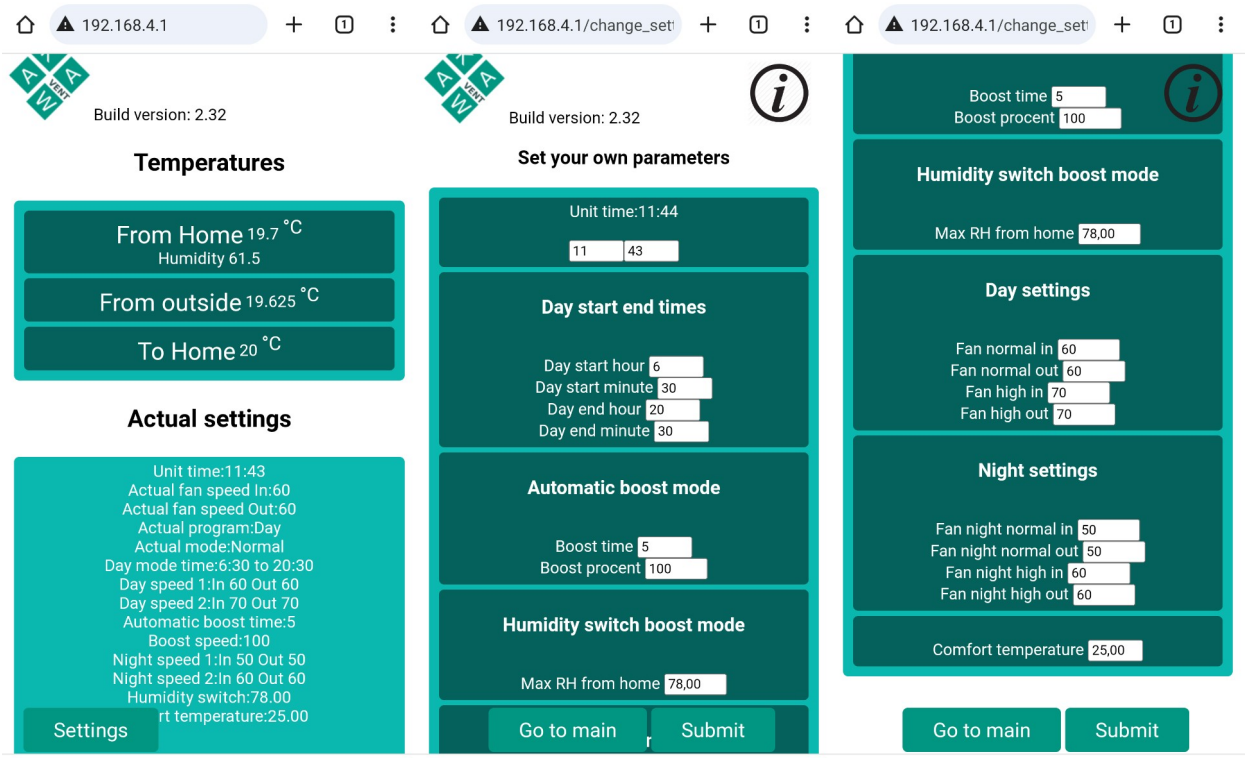
After washing, make sure that all water has been removed from the inside of the exchanger.

To be sure, immediately after installing it in the device, run the manual boost mode for at least 15 minutes. This is to blow the remaining water out of the exchanger.

1. Turn off the power
2. Unscrew the screws securing the exchanger cover
3. Pull out the exchanger gently but firmly from inside the ventilation machine housing
4. Check the inside of the housing for any dirt or standing water. Clean remove if necessary.
5. Wash the exchanger in warm water with a light detergent. Do not use hot water over 40C. This may damage the exchanger. Just as strong chemicals.
6. Dry the exchanger as much as possible
7. Gently and carefully insert the exchanger back into the machine housing.
8. Reinstall the exchanger cover. Do not use power tools for this purpose. Do not overtighten the screw threads. Hand tightening is perfectly sufficient.

Settings and adjustmets.

This ventilation unit is programmable via its own WiFi network. On the device casing and on the WiFi box there are the name and password of the WiFi network and the address that should be entered in the web browser of your device. You can use any device with Wi-Fi and a web browser.



Preloaded settings:

Your device is equipped with a real-time clock, WiFi AP, day mode, night mode, two sets of settings for day and night, humidity sensor, automatic and manual boost.

By default, the device is configured by the manufacturer as follows:

Day

Day start at 6:30 am and end 6:30 pm
During day :

normal mode is 60%
high mode is 70%
boost 100% every one full hour for 5 minutes

humidity boost activ 78%

Night

at night :

normal 30%
high 40%
no time boost at night
humidity boost activ 78%

Day and night

Your device is equipped with a real-time clock. This means that after setting this clock, the device knows what time of day it is. It can change the parameters of its work itself according to the set beginning and end of the day and night.

If you look above, you will see that for each of these periods you can change almost all operating parameters. Typically, at night we want to maintain maximum silence, so reducing the fan power (maintaining the design values) will meet this condition.

The automatic boost function on the hour does not work at night. However, there is a boost caused by humidity. So if a household member takes a shower after work, the ventilation unit will react and quickly remove excess moisture.

Other functions:

Summer mode overheating protection - Comfort temperature settings

Summer mode, or rather protection against overheating of the building and maintaining a comfortable temperature inside the house. The unit is equipped with sensors that determine the temperatures inside and outside the building. When it is very hot, without this function you would have to manually change the operation of the air handling unit, open windows or use other devices. All this undermines the sense and possibilities of installing a ventilation unit.

The ventilation unit you purchased and use has a special algorithm that detects these inconveniences. When the temperature inside the building exceeds the programmed threshold and at the same time the temperature outside the building is noticeably lower, the ventilation unit will adjust air flows to minimize heat exchange.

The effect of this action is the gradual cooling of the building interior until the interior temperature drops below the set comfort temperature. This function is fully automatic and the user only selects the maximum acceptable temperature in the house

Winter mode protection against low temperatures blowing into the house and freezing of the exchanger

Fully automatic function that protects the device against the harmful effects of ice on the exchanger, e.g. blocking it and increasing the temperature of the air supplied to the house. Unlike overheating prevention, in this case the user has no influence on the operation of this function. It is fully automatic and involves appropriate changes in the airflow proportions. The benefit for the user is a higher air supply temperature without the need to use heaters.

Automatic boost modes:

The device has several boost functions. Manual activation, automatic switching on every hour during the day and triggered by the humidity level. The power of the boost mode is set for all of the following ways of activating this mode.

- ***Manual activation boost***

To manually activate the boost mode, connect the rotary switch to the WiFi box according to the diagram. After correct connection, it is possible to select the active operating mode of the device, including manual boost mode.

- ***Activation with a humidity sensor***

The device is equipped with a home air humidity sensor. The user specifies the maximum humidity level. The default setting is 78% RH. With this setting, the device correctly detects, for example, bathing or intensive cooking. Please remember that this is the average humidity value from the rooms where the exhaust vent is installed.

When the set value is exceeded, the ventilation device will automatically switch to boost mode. Boost mode will be disabled when the humidity level drops below the set value minus 5%.

To disable this feature, set the value to 100%.

- ***Activation on the hour***

The boost mode is also activated by a real-time clock. During the day (programmable), every full hour, the boost mode will be automatically activated for x min with y power. Default is 5 min and 100%

Using higher class filters

By default, the device works with two G4 class filters. It is possible to use a higher class of filtration if necessary. Better filters with a higher filtration class are available in official distribution. The most frequently chosen higher-class filter is F7.

Both G4 and F7 filters fit into the same filter frame. If you intend to use a filter other than the one installed at the factory, you should re-adjust the ventilation system in your home. Usually, it is enough to add about 20% of the fan power from the outside, but it is necessary to measure the flows to individual rooms in order to balance the flows.

It is recommended to use filters available from the official K.A.W.A. VENT distribution.

Terms of warranty

- These warranty conditions apply to appliances purchased and operated in the United Kingdom and the Republic of Ireland.
- The warranty is granted for devices operating as intended, e.g. household appliances

1. The conditions below describe the prerequisites and scope of our warranty.
    1. The warranty does not affect your statutory rights or the obligations of your retailer and your contract with them.
    2. We provide warranty cover for an appliance subject to the following conditions:
        1. We will rectify defects affecting the appliance which are clearly attributable to material and/or manufacturing faults, provided they are reported immediately after being identified, and within 24 months of the date of purchase (the “Warranty Period”).
        2. The warranty will not extend to fragile items such as glass or cosmetic parts or consumable items such as filters.
        3. Warranty liability will not be triggered by minor variances from nominal features which are of no significance to the appliance's value or fitness for purpose or damage caused by the chemical or electrochemical effects of water and generally by exceptional environmental conditions, inappropriate operating conditions, or the appliance having come into contact with unsuitable materials.
2. Service may not be available to all the islands around the UK and Ireland, we reserve the right to offer approved local partners in outlying areas. Please check with your retailer or contact info@kawavent.co.uk if you need more information.
3. Warranty provision will be free of charge and we will decide whether this will take the form of a repair or the replacement of the appliance. Please note that replaced parts pass into our ownership.

4. A purchase receipt must be presented in each case showing the date of purchase and either the delivery or installation date, the latest date elicits the start of the warranty period.
5. It is required that Engineers and Service Partners are given reasonable access when attending to the appliance.
6. In the event of a replacement appliance being supplied, we reserve the right to charge an appropriate monetary offset in respect of the period of use already enjoyed.
7. The replacement will be from the local product portfolio.
8. The warranty period for spare parts fitted ends with the expiry of the warranty on the appliance as a whole.

We reserve the right to invalidate the warranty.

1. If repairs are performed by persons not authorised by us to take such action, or if our appliances are fitted with non-original spare parts, extras or accessories the warranty becomes void.
2. Likewise, no warranty liability will be accepted if the defects stem from transport damage for which we are not responsible, improper installation and assembly, improper use, to also include where an appliance has been used in a non-domestic environment, poor maintenance or failure to observe operating or assembly instructions.

Other claims against the warranty in respect of compensation for consequential or associated loss are excluded, except where such liability is legally mandatory.

Spare and consumable parts

All spare parts are available from the manufacturer at the indicated internet address. www.kawavent.co.uk . If you have specific needs or cannot find the parts you need, please contact us. Contact details at the end of the document.

All repairs must be made in accordance with the device's warranty terms.

It is recommended to use the filters supplied with the device and replace them with identical ones. This will ensure proper operation of the device not only during the warranty period but also for the following years. It will also ensure that the previous settings are maintained and there is no need for subsequent air flow measurements.

Contact

Company registration address:

49 Garden drive
Brampton
S73 0TN

Website:

www.kawavent.co.uk

Email addres:

info@kawavent.co.uk

Phone number:

+44 7517 012 990