

HOME VENTILATION WITH HEAT RECOVERY

Ventilation Unit M-WRG-K (Comfort model)



Important user information

Ventilation with heat recovery

With the decentralized ventilation system M-WRG-K with heat recovery from Meltem you have acquired a high quality product. This ventilation system serves you as an improvement for your home and your health as well as a protective measure against moisture and mold damages in your home.

Ventilation by opening windows, especially during cold seasons, belongs to the past. From now on, fresh and filtered air is supplied fully automated. The stale air is extracted and its warmth transferred to the fresh air, via the heat exchanger. While doing so, the M-WRG ventilation units have minimum power consumption. You save heating costs, increase the comfort of your home and at the same time reduce the impact on the environment by reducing CO₂ emissions.

Of course you still may open your windows - especially during warmer days.

A family of four produces daily an average of 10-14 liters of moisture, due to cooking, laundry, personal hygiene, and breathing of inhabitants, plants and animals! This excessive amount of moisture, within the interior air, is extracted through the M-WRG ventilation unit and therefore prevents the forming of mold and resulting damages in the building structure. At the same time, fumes from floors, furniture and a too high CO₂ concentration in the air, which can lead to fatigue and health issues, will be extracted from the interior rooms and replaced by fresh and clean air.

Directions for correct usage

Please read this manual carefully and follow the instructions contained in this manual. Additionally, familiarize yourself with the operations of the M-WRG ventilation unit, as well as please pay attention to the warnings and cautions contained in this manual.

- Never operate the M-WRG ventilation unit without filters. Only with the original filters from Meltem, the units will remain clean, fully operative, and have a long lifespan.
- The M-WRG ventilation unit may only be operated once installed correctly.
- When ventilating basements or similar rooms we advise to be cautious (especially during the summer season and warm weather), due to the fact that the moisture in the air will condense on cold interior walls and - despite ventilation - moisture damages can occur. Therefore, please only ventilate at night during warm weather seasons! If you would like to ventilate such rooms with an M-WRG ventilation system, please consult with the manufacturer prior to purchase.
- Never cover the M-WRG ventilation unit or any part of it with e.g. cabinets, blinds or curtains. A minimum distance of 30 cm to any furniture is required, in order for the M-WRG ventilation unit to remain fully operable.
- The M-WRG ventilation unit has been designed for continuous operation and a long lifespan. During cold seasons, the M-WRG ventilation unit should be operated continuously. The energy saving motors and innovative electronics guarantee – despite continuous operation- for a low power consumption (approx. 3.8 Watt at level 1). Only a continuous operation achieves a permanent extraction of moisture and condensation. If this does not occur, it is possible that condensate will gather in the unit.
- If a high concentration of moisture occurs, we recommend regularly ventilating the room at the highest ventilation level for 10 minutes, in order to eliminate any possible condensation inside the unit.
- **In order to guarantee a smooth operation, especially during low exterior temperatures (below -5°C), you should avoid interior temperatures below 15°C.**

Caution: In case of exterior temperatures below 0°C, icicles may form at the façade covers. These should be removed for safety purposes.

Maintenance and Filter replacement

The unit automatically monitors the filter status. An acoustic warning signal will inform you, when the filters need to be replaced.

However, for hygienic reasons, it is strongly recommended to replace the filters at least once per year, ideally before the heating season.

For a reliable operation of the units and for your own safety, only original and certified parts from Meltem should be used. Otherwise this may void the warranty and Meltem will not be liable for any damages.

We hope you will enjoy your new M-WRG home ventilation system with heat recovery!



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1. You have made the right choice!

With the **M-WRG-K** decentralized ventilation unit with heat recovery, you acquired a high quality product. M-WRG-K stands for Meltem – heat recovery – with comfort. Meltem's „know how“ of more than 30 years, developing and producing decentralized ventilation systems, is now combined with their innovative heat recovery process. Ventilation by opening windows especially during cold seasons, belong to the past. From now on, fresh and filtered air is supplied fully automated. The stale air is extracted and its warmth transferred to the fresh air, via the heat exchanger. While doing so, the M-WRG units have minimum power consumption. You save heating costs, increase the comfort of your home and at the same time reduce the impact on the environment by reducing CO₂ emissions.

The M-WRG-K ventilation unit has been designed for continuous operation. We guarantee an effective operation as well as a long lifespan of the system if it is correctly used. We hope you will enjoy your new M-WRG home ventilation system with heat recovery!

1.1 Safety and security

- The M-WRG-K ventilation unit may only be operated once installed correctly.
- For correct installation of the system please follow the instructions of the assembly manual.
- The M-WRG-K ventilation unit may only be used for the ventilation of living space and interior rooms (Kitchens, bathrooms, basements, offices, etc). With rooms that have an excessive build up of dust and/or corrosive gas emissions, the M-WRG-K ventilation unit may be limited and/or damaged in its operating capacity.
- Please familiarize yourself with the operating modes and procedures of the M-WRG-K ventilation unit.
- The M-WRG-K ventilation unit is especially suitable for the drying phase after a building is constructed and the inhabitants have moved in. It is not suitable for drying a building during construction or to ventilate a building while interior renovations are in progress. A continuously high concentration of dust and/or moisture will clog the filters additionally and overwork the automated extraction of condensate.
- Never operate the M-WRG-K ventilation unit without the suitable filters. The filters protect your health and living space from exterior environmental influences. Only with the suitable filters, the M-WRG-K ventilation unit will remain clean. Additionally it will prevent the pollution of the electrical components and the heat converter, as well as reduce or prevent full operating capacity of the M-WRG-K ventilation unit.
- Do not install the M-WRG-K ventilation unit into the interior of a cabinet or other furniture. Do not cover the M-WRG-K ventilation unit with any type of fabric (towel, curtains, etc.) or any other objects (furniture, blinds, etc.).
- Please follow the instructions contained in this user manual.
- Please follow the maintenance instructions contained in this user manual.
- **Important Indication according to DIN EN 60335:** This M-WRG-K ventilation unit is not to be operated by persons (including children) with limited physical, sensory or mental capabilities, or lack of experience and/or lack of knowledge. Except if they are supervised, or were given instructions how to use the M-WRG-K ventilation unit by a legal guardian, responsible for their safety and security. Children should be supervised, in order to ensure that they are not playing with the M-WRG-K ventilation unit.
- **If these Safety and Security regulations are not regarded, Meltem will not be held liable!**

Safety Advice for installing the M-WRG-K ventilation unit in rooms with open fire places: During the planning and installation process of the ventilation system, the fireplace safety regulations (i.e. FeuVo) have to be met! Before operating the M-WRG-K ventilation unit, the fireplace regulations have to be discussed and approved by the responsible official authorities and the chimney sweeper.



1.2 How does the M-WRG-K ventilation unit work?

The heat exchanger core uses the heat of the outgoing warm stale air to temper the fresh inflowing air. The unit has two fans, one fan extracts the warm stale air from the interior and the other fan draws in fresh air from the exterior. As the air streams flow through the air ducts of the heat exchanger core, heat is transferred from the warm passage to the cold,

while the airstreams are never combined. The cooled stale air is led out and the pre-tempered fresh air then streams into the room without causing a draft.

Interior:

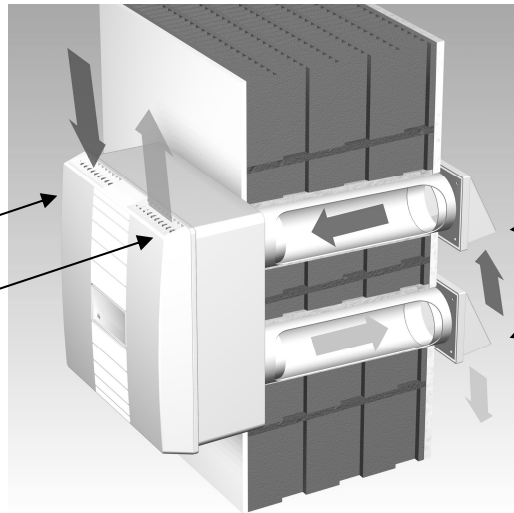
Stale Air Intake

Supply Air Outlet

Exterior:

Fresh Air Intake

Exhaust Air Outlet



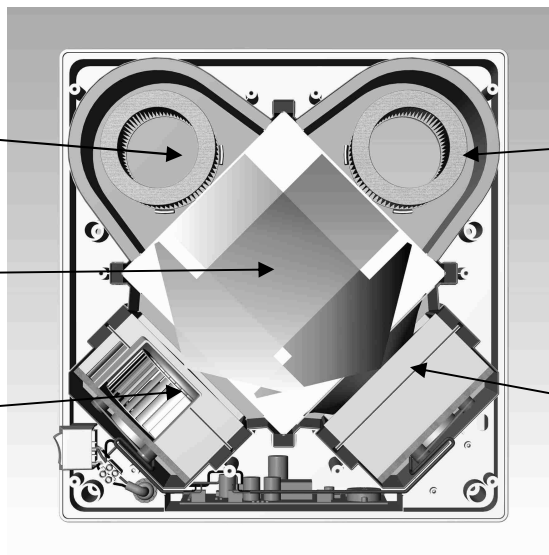
Stale Air Filter

Heat exchanger

Supply Air fan

Supply Air Filter

Stale Air fan



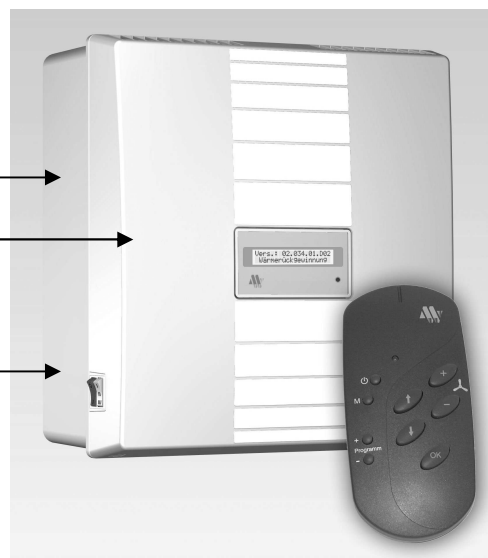
1.3 M-WRG-K ventilation unit overview

Casing

Cover

Dual switch

- Power switch ON/OFF
- 3-level ventilation rate switch

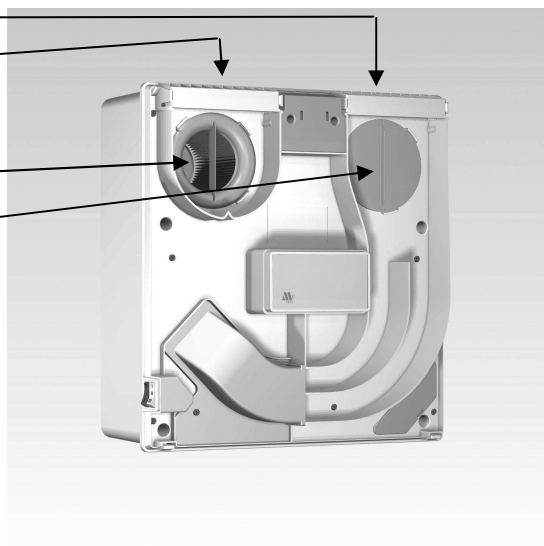


Supply Air Outlet

Stale Air Intake

Ring Cover for Stale Air Filter

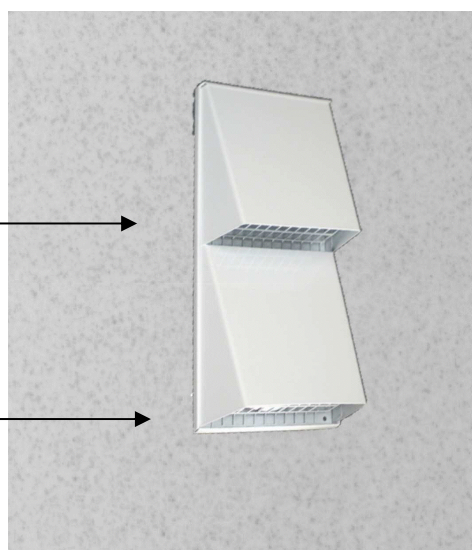
Cover for Supply Air Filter



Facade Cover: Ventilation Hood

Fresh Air Intake

Exhaust Air Outlet



2. Start up and operation

Please ensure that the M-WRG-K ventilation unit has been properly installed by an expert, according to the assembly instructions and that the exterior of the unit is not damaged. The interior and exterior intakes and outlets must not be covered or obstructed.

2.1 Start up

Turn on the M-WRG-K ventilation unit by switching the Power ON/OFF switch on the left bottom side of the unit to ON.

The display will show the following information:

Vers.:	A034.05.02	Dev
	Heat Recovery	

The first line shows the version number of the M-WRG-K (the illustration above is only an example!) Please write down the version number of your M-WRG-K unit in the space below:

Vers.No.: _____.

After apr.10 seconds, the display will automatically show the Program „P0“. Now you are able to set the ventilation rate (VS) via the 3-level volume selection switch.

P0	Select	VS: 03
		I.II.III

To ensure a well ventilated and healthy room climate it is recommended to run the M-WRG-K ventilation unit **continuously** at ventilation level I or II. If needed, switch for a limited interval of time to ventilation level III.

During the **winter season**, it is recommended to ventilate the room once daily for 10 minutes at the highest ventilation rate (VS: III), in order to avoid any condensate buildup inside the M-WRG-K ventilation unit.

Caution: Before turning off the M-WRG-K ventilation unit while exterior temperatures are below 0°C, the unit has to be run for a minimum of 10 minutes at level III for antifreeze protection purposes.

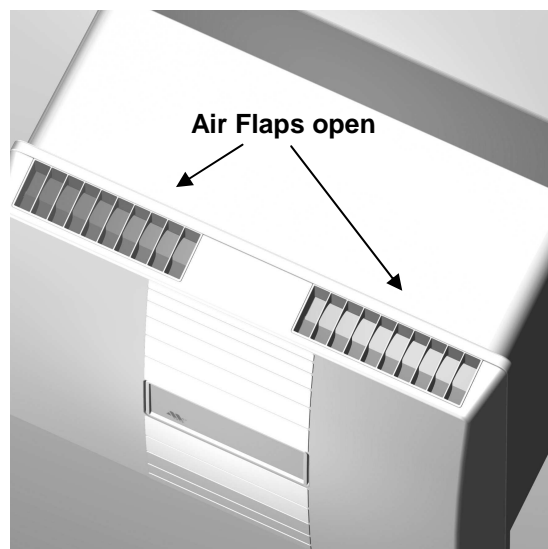
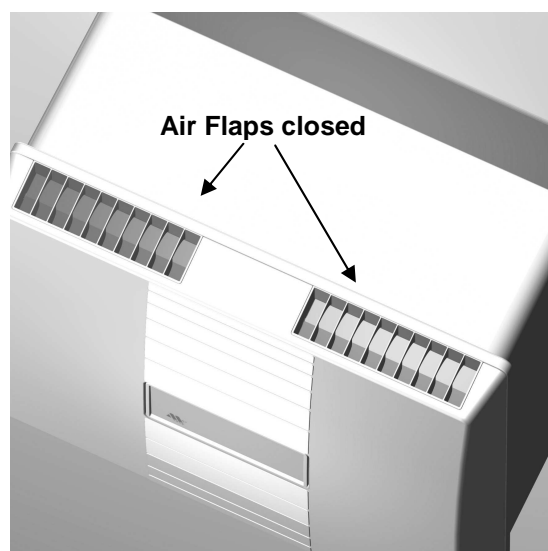
Air flaps: The air flaps will automatically open or close if the M-WRG-K ventilation unit is switched ON or OFF. In case of a malfunction make sure the flaps are not blocked and switch the unit ON or OFF one more time. In case of a power outage the air flaps will close automatically.



(1) Power switch

(2) 3- level ventilation rate switch

After the M-WRG-K ventilation unit is switched OFF, please wait a minimum of 15 seconds before switching it ON again.



2.2 Operation without remote control

Select your preferred ventilation rate (VS) without a remote control via the 3-level ventilation rate switch.

- I = 15 m³/h
- II = 30 m³/h
- III = 60 m³/h

2.3 Operation with remote control

The M-WRG-K ventilation unit is operated and controlled via remote control

Insert batteries:

- Open the battery compartment cover on the back of the remote
- Insert batteries correctly
- Close the battery compartment cover



Please note that the M-WRG-K ventilation unit does not always respond immediately. Some settings require the unit to measure and calculate specific values in the air, which takes some time. After saving these measurements, the current settings will appear on the display. In case you do not wish to save the new settings, simply press the "OK" button on the remote control. The M-WRG-K ventilation unit will always run the currently select program. The display will always show you the current operating program and settings.

Activate the remote control

If the M-WRG-K unit is operated for the first time, please wait 1 minute before activating the remote control!

Point the remote towards the M-WRG-K ventilation unit and press the ON/OFF button. The red LED light (3) has to light up.

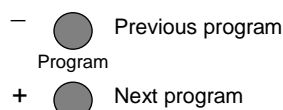


4

The display will now show "P1 Continuous Operation". The 3-level ventilation switch is now **deactivated** and the remote control operation **activated**.

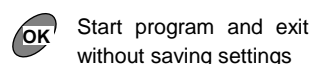
Overview of the remote control

- Select comfort programs "P1 – P7" and general settings "P8"



6

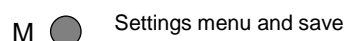
- To start a program press the "OK" button



8

The display will show the current program and status. The M-WRG-K ventilation will automatically start up with the pre installed manufacturer's settings or the last saved settings.

- For the settings menu press the "M" button



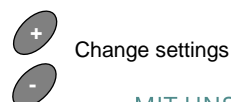
5

- Select settings with the "UP" or "Down" button



7

- Change settings with the "+" or "-" button



9

3. Operation and settings

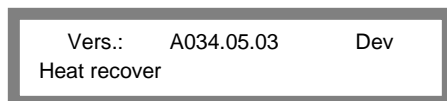
3.1 Language

You may select one of the following languages

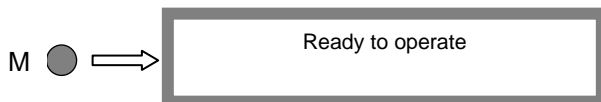
D	German
GB	English
IT	Italian
EST	Estonian
LT	Lithuanian
LV	Latvian
SLO	Slovenian
RO	Romanian
DK	Danish
FIN	Finnish
NL	Dutch
PYC	Russian
S	Swedish

Select a language:

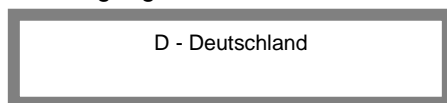
- Turn the unit ON with the power switch



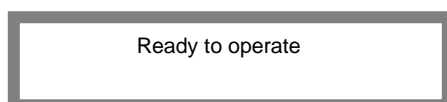
- Once the display shows Ready to operate, press the "M" button





- The cursor will blink in front of the displayed language. With the "+" or "-" button enter your preferred language



- Press the "M" button to save your selection. The screen will now show:

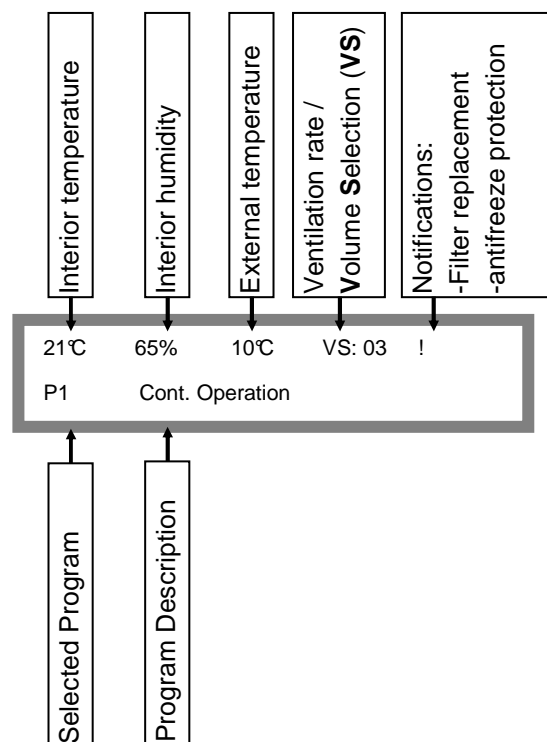


- Press the button   to view the current operating program display

3.2 The display

Interior temperature, humidity and exterior temperature are pre-existing conditions and are measured by sensors in the M-WRG-K ventilation unit. These measurements can only be displayed while the M-WRG-K ventilation unit is running. The **ventilation rate "VS"** is the most important setting. You may select one of the following settings:

- VS: 01 (15m ³ /h)	- VS: 02 (20m ³ /h)
- VS: 03 (30m ³ /h)	- VS: 04 (40m ³ /h)
- VS: 05 (50m ³ /h)	- VS: 06 (60m ³ /h)
- VS: 07 (70m ³ /h)	- VS: 08 (80m ³ /h)
- VS: 09 (90m ³ /h)	- VS: 10 (100m ³ /h)



Notifications:

The following notifications will be shown in the right corner of the display:

- Filter replacement**

The "!" indicates when a filter replacement is necessary. Additionally an acoustic signal will sound (see ch.4)

- Antifreeze protection**

The "*" will indicate that the antifreeze protection program has (automatically) been activated

3.3 Program overview

For a complete overview of all programs please turn to chapter 9.

3.3.1 Manual ventilation program P0

The program P0 enables you to operate the M-WRG-K ventilation unit via the 3-level ventilation rate switch. (see ch.2.2)

Start program:

- Press the “OK” button for the program selection menu
- Select program P0 by pressing the “+” or “-” button
- Start the program by pressing the “OK” button



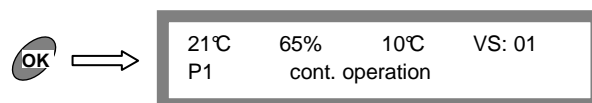
- Select a ventilation rate (VS) via the 3-level ventilation rate switch on the left exterior side of the M-WRG-K ventilation unit.

3.3.2 Continuous ventilation program P1

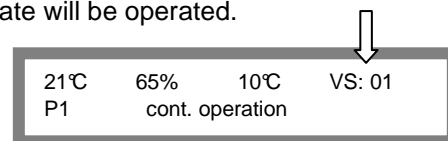
The program P1 is designed for a continuous operation with the capability of ventilating your home 24 hours a day.

Start program:

- Press the “OK” button for the program selection menu
- Select program P1 by pressing the “+” or “-” button
- Start the program by pressing the “OK” button

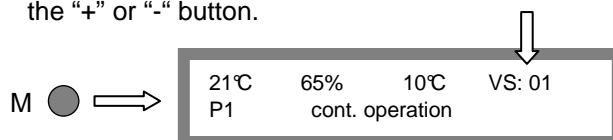


- **Select a temporary ventilation rate (VS):**
You can select a temporary ventilation rate (VS:01 – VS:10) by pressing the “+” or “-” button. Your chosen setting will remain until you exit the P1 program. If you reselect the program P1 the saved ventilation rate will be operated.



Change settings:

- **Select a permanent ventilation rate:**
 - Start program P1 as instructed above
 - Press the “M” button to open the settings menu
 - The cursor will blink in front of the ventilation rate (VS). Enter your desired ventilation rate (VS) with the “+” or “-” button.



- Press the “M” button to save your settings and return to the current operating program display

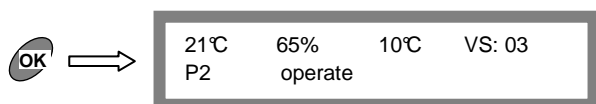


3.3.3 Interval program P2

The program P2 lets you ventilate your home in intervals. You are able to enter a preferred duration and ventilation rate.

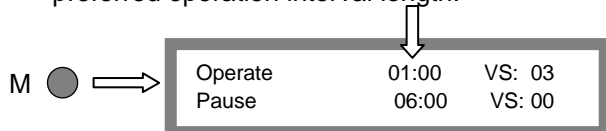
Start program:

- Press the "OK" button for the program selection menu
- Select program P2 by pressing the "+" or "-" button
- Start the program by pressing the "OK" button



Change settings:

- Press the "M" button to open the settings menu
- The cursor will blink in front of the operation interval length. With the "+" or "-" button enter your preferred operation interval length.



- Press the "UP" button to be able to change the operation interval ventilation rate (VS). With the "+" or "-" button enter your preferred ventilation rate (VS)



- Press the "UP" button to be able to change the settings for the pause interval. With the "+" or "-" button enter your preferred pause interval length.
- Press the "UP" button to be able to change the pause interval ventilation rate (VS). With the "+" or "-" button enter your preferred ventilation rate (VS) (If you do not wish any ventilation during the pause interval, simply set the ventilation rate to VS:00)

- Press the "M" button to save your settings and to return to the current operating program display

3.3.4 Day-/Week program P3

The program P3 lets you adjust the ventilation intervals to your personal weekly routines. You may select up to 3 different ventilation rates per day.

Start program:

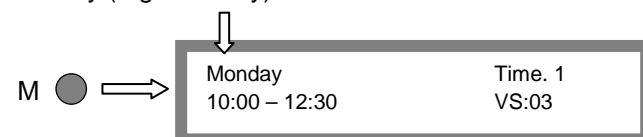
Please ensure that date and time settings are correctly set up. (See ch.3.3.1)

The ventilation intervals have to be set up in order (Time: 1, Time: 2, Time: 3)

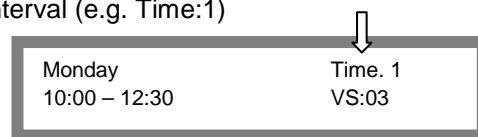
- Press the "OK" button for the program selection menu
- Select program P3 by pressing the "+" or "-" button
- Start the program by pressing the "OK" button

Change Settings:

- Press the "M" button to open the settings menu
- The cursor will blink in front of the displayed day. With the "+" or "-" button enter your first starting day (e.g. Monday)



- Press the "UP" button to be able to change the first interval. With the "+" or "-" button enter the correct interval (e.g. Time:1)



- Press the "UP" button to be able to change the duration (timeline) of the interval. With the "+" or "-" button enter your preferred interval duration (timeline)
- Press the "UP" button to be able to change the ventilation rate. With the "+" or "-" button enter your preferred ventilation rate
- Press the "M" button to save your settings and return to the current operating program display. You have to **save every single interval** by pressing the "M" button!



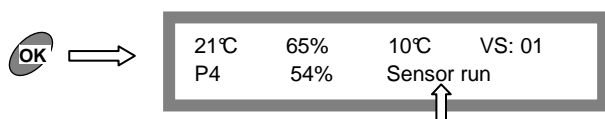
- Repeat this process for every day.

3.3.5 Humidity program P4

The program P4 is designed for rooms with a high concentration of humidity.

Start program:

- Press the “OK” button for the program selection menu
- Select program P4 by pressing the “+” or “-” button
- Start the program by pressing the “OK” button

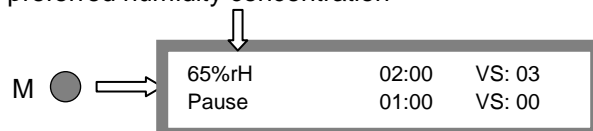


The sensors of the M-WRG-K ventilation unit will automatically measure all needed values. Once all measurements are recorded the display will show:

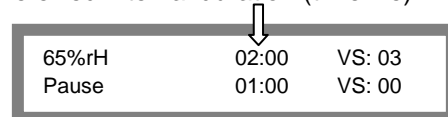


Change Settings:

- Press the “M” button to open the settings menu
- The cursor will blink in front of the displayed room humidity. With the “+” or “-” button enter your preferred humidity concentration



- Press the “UP” button to be able to change the duration of the interval. With the “+” or “-” button enter your preferred interval duration (timeline)



- Press the “UP” button to be able to change the ventilation rate (VS) of the interval. With the “+” or “-” button enter your preferred ventilation rate.
- Press the “UP” button to be able to change the duration of the pause interval. With the “+” or “-” button enter your preferred pause interval duration (timeline)
- Press the “UP” button to be able to change the ventilation rate (VS) of the pause interval. With the “+” or “-” button enter your preferred ventilation rate.
- Press the “M” button to save your settings and return to the current operating program display

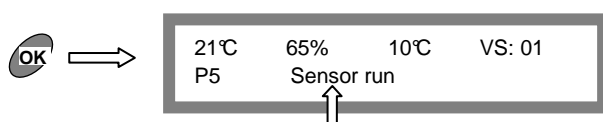


3.3.6 Temperature program P5

The program P5 lets you define a temperature range of 5°C to 30°C for the supply air. This enables you to control the supply air temperature, especially in the summer and winter seasons. If the temperature exceeds above or drops below the defined temperature range, the M-WRG-K ventilation unit will automatically switch to standby mode.

Start program:

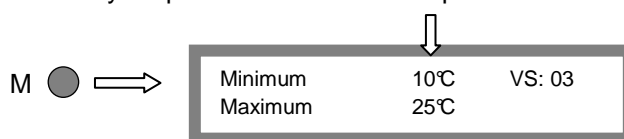
- Press the “OK” button for the program selection menu
- Select program P5 by pressing the “+” or “-” button
- Start the program by pressing the “OK” button



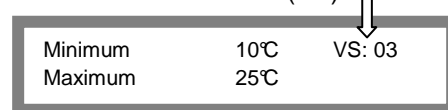
For the following 5 minutes, the sensors of the M-WRG-K ventilation unit will automatically measure all needed values.

Change Settings:

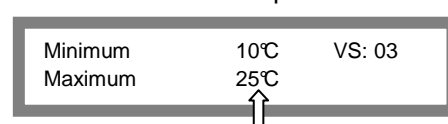
- Press the “M” button to open the settings menu
- The cursor will blink in front of the displayed Minimum temperature. With the “+” or “-” button enter your preferred minimum temperature.



- Press the “UP” button to be able to change the ventilation rate (VS). With the “+” or “-” button enter your preferred ventilation rate (VS).



- Press the “UP” button to be able to change the maximum temperature. With the “+” or “-” button enter your preferred maximum temperature.



- Press the “M” button to save your settings and return to the current operating program display



3.3.7 Air quality program P6

This program is an extra that can be added.

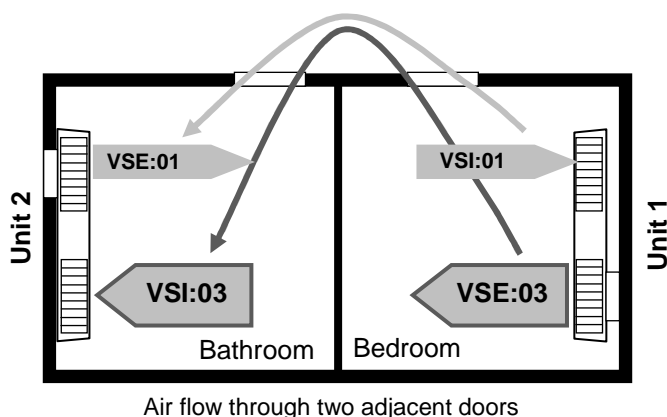
3.3.8 Ventilation program P7

(Cross ventilation with 2 units)

The program P7 enables you to cross ventilate two rooms with two units. You are also able to enter separate ventilation rates for the supply and stale air

Caution!

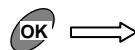
- This program should not be operated if temperatures are below 10°C.
- Please ensure that the supply air ventilation rate is equal to the stale air ventilation rate.
- A ventilation rate of VS: 00 is not possible with this program.
- Please ensure that the connecting or adjacent doors of the two rooms are open or the space between doorframe and door is at least 5mm.



Initials	Description
VSE	Ventilation rate for the stale air
VSI	Ventilation rate for the supply air
VS	Ventilation rate for the Pause interval
ON	Start time
TIME	Duration of the operating interval

Start Program:

- Press the “OK” button for the program selection menu
- Select program P7 by pressing the “+” or “-” button
- Start the program by pressing the “OK” button



21°C 65% 10°C VS: 03
P7 Pause – 22:00

Change Settings:

- Press the “M” button to open the settings menu
- The cursor will blink in front of **VSE**. With the “+” or “-” button enter your preferred ventilation rate



VSE:03 VSI: 01 VS: 03
ON 22:00 Time 08:00

- Press the “UP” button to be able to change the **VSI**. With the “+” or “-” button enter your preferred ventilation rate

VSE:03 VSI: 01 VS: 03
ON 22:00 Time 08:00

- Press the “UP” button to be able to change the **VS**. With the “+” or “-” button enter your preferred ventilation rate

VSE:03 VSI: 01 VS: 03
ON 22:00 Time 08:00

- Press the “UP” button to be able to change the start time (**ON**). With the “+” or “-” button enter your preferred start time (**ON**).

VSE:03 VSI: 01 VS: 03
ON 22:00 Time 08:00

- Press the “UP” button to be able to change the duration (**Time**). With the “+” or “-” button enter your preferred duration (**Time**)

VSE:03 VSI: 01 VS: 03
ON 22:00 Time 08:00

- Press the “M” button to save your settings and return to the current operating program display



3.4 General settings P8

3.4.1 Date and time

The program P8 lets you set the current day and time.

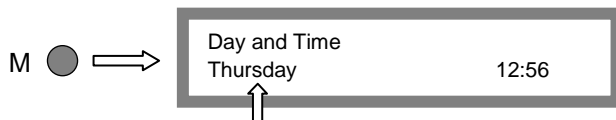
Start Program:

Please reenter date and time settings, in case of a power shortage or to switch to daylight saving time.

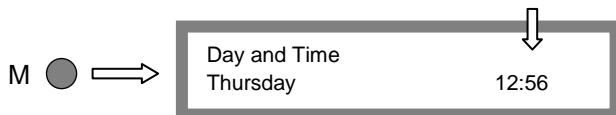
- Press the “OK” button for the program selection menu
- Select program P8 by pressing the “+” or “-” button
- Start the program by pressing the “OK” button

Change Settings:

- Press the “M” button to open the settings menu
- The cursor will blink in front of the displayed day. With the “+” or “-” button enter the correct day.



- Press the “UP” button to be able to change the time. With the “+” or “-” button enter the current time.



- Press the “M” button to save your settings and return to the current operating program display

3.4.2 Antifreeze protection

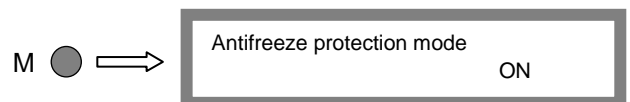
In case of low exterior temperatures the M-WRG ventilation unit will automatically switch to the antifreeze protection mode. During the **winter season**, it is recommended to ventilate the room daily for 10 minutes at the highest ventilation rate (III), in order to avoid any condensate buildup inside the M-WRG-K ventilation unit.

Start Program:

- Press the “OK” button for the program selection menu
- Select program P8 by pressing the “+” or “-” button
- Start the program by pressing the “OK” button two times

Change Settings:

- Press the “M” button to open the settings menu



- With the “+” or “-” button turn the anti-freeze protection mode ON or OFF
- Press the “M” button to save your settings and return to the current operating program display

3.4.3 Close air flaps

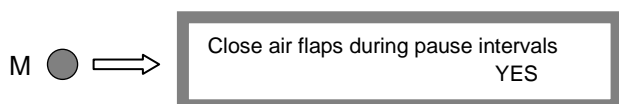
The air flaps close automatically during the pause interval. This will further reduce noise from the exterior.

Start Program:

- Press the “OK” button for the program selection menu
- Select program P8 by pressing the “+” or “-“
- Start the program by pressing the “OK” button three times

Change Settings:

- Press the “M” button to open the settings menu



- With the “+” or “-“ button enter YES (to close) or NO (to open) the air flaps during an interval
- Press the “M” button to save your settings and return to the current operating program display

4. Cleaning the M-WRG-K ventilation unit

The M-WRG-K ventilation unit is made of high quality synthetic material and only needs little cleaning. From time to time we recommend cleaning the surface of the unit with a damp cloth. In order to preserve the parts we recommend only using mild cleaning detergents. You may also use special synthetic cleaning detergents in case of the occurrence of more resistant dirt.

Caution! Never use cleaning detergents that contain acids or corrosives! Never use a high pressure or steam cleaner!



5. Filter replacement

The clogging of the filters is monitored automatically by the M-WRG-K ventilation unit. In case the filters need to be replaced, an acoustic signal will inform you, 2–3 weeks prior to the replacement. The interval of the acoustic signal will shorten over the time interval when the filter replacement is necessary. You must change the filters if the acoustic signal sounds for an interval of one second per hour.

Caution

- **Always turn the M-WRG-K ventilation unit off before you open the cover and replace the filters !**
- **Always replace both filters at the same time!**
- **The efficiency of the unit depends on the permeability of both filters!**

5.1 Filter selection

For the M-WRG-K ventilation unit you have multiple filter options. For normal operation the *Standard Filter* (G4) is sufficient.

- For persons suffering from allergies, you may choose to install the *Allergy Filter* (F7). (only needed for supply air)
- In order to prevent unpleasant odors and emissions or even harmful gases (gasoline, nitrogen oxides, etc.) from entering your home, you may choose to install the *Activated Carbon Filter* (F6). (only needed for supply air)
- Only use original filters made by Meltem! Otherwise Meltem cannot guarantee a smooth operation and will not be held liable for any malfunctions.

Model Nr.	Description	Model
5571	Standard filter	M-WRG-FS
5572	Allergy filter	M-WRG-FA
5573	Activated Carbon filter	M-WRG-FK

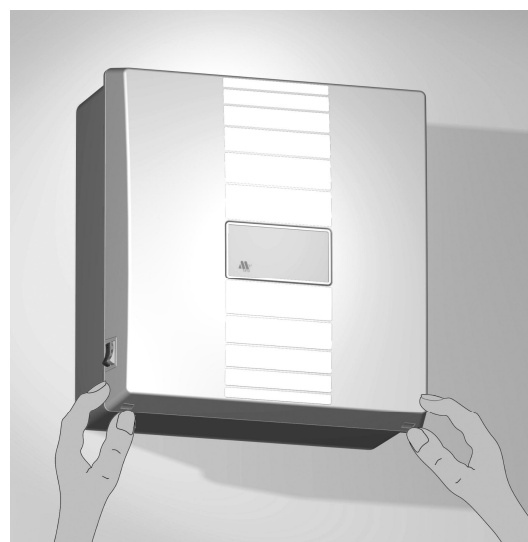
Replacement filters can be ordered at your local HVAC supplier or at www.meltem.com.

5.2 Replace filters

No tools are required to replace the filters. Both filters should be replaced at the same time

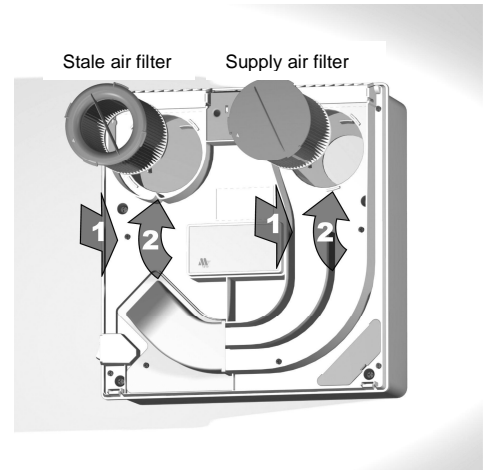
5.2.1 Remove unit cover

- Turn OFF the M-WRG-K ventilation unit. The air flaps will close automatically.
- With both thumbs, press down the two hooks on the bottom of the M-WRG-K ventilation unit and at the same time grab the edge of the cover with both index fingers and then carefully lift the cover up and towards you.



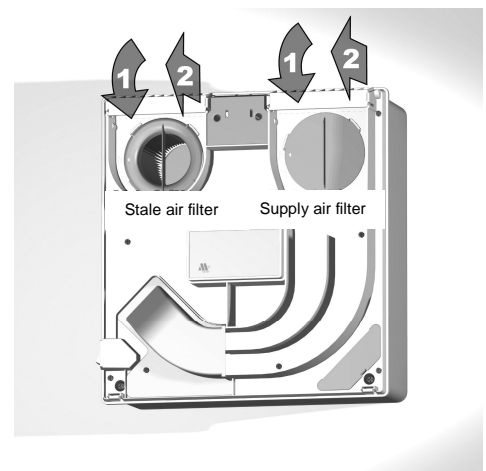
5.2.2 Remove old filters

- Twist left the filter covers and detach
- Remove old filters and discard
- Clean the cap with a damp cloth



5.2.3 Insert new filters

- Insert new filters
- Insert the filter covers (making sure the marked arrows on case and cover are aligned) and turn right
- The marking (arrow) on the cap has to align with the marking on the M-WRG-K ventilation unit
- Make sure the covers sit flat and tight on the cover
- Repeat this process for both supply and stale air filter caps.



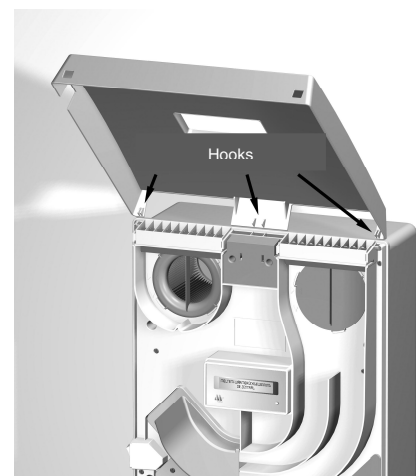
Note:

Allergy Filters or Activated Carbon Filters have to be installed as supply air filters!

5.2.4 Close unit cover

Please ensure the correct positioning of both filter caps before putting the cover back on!

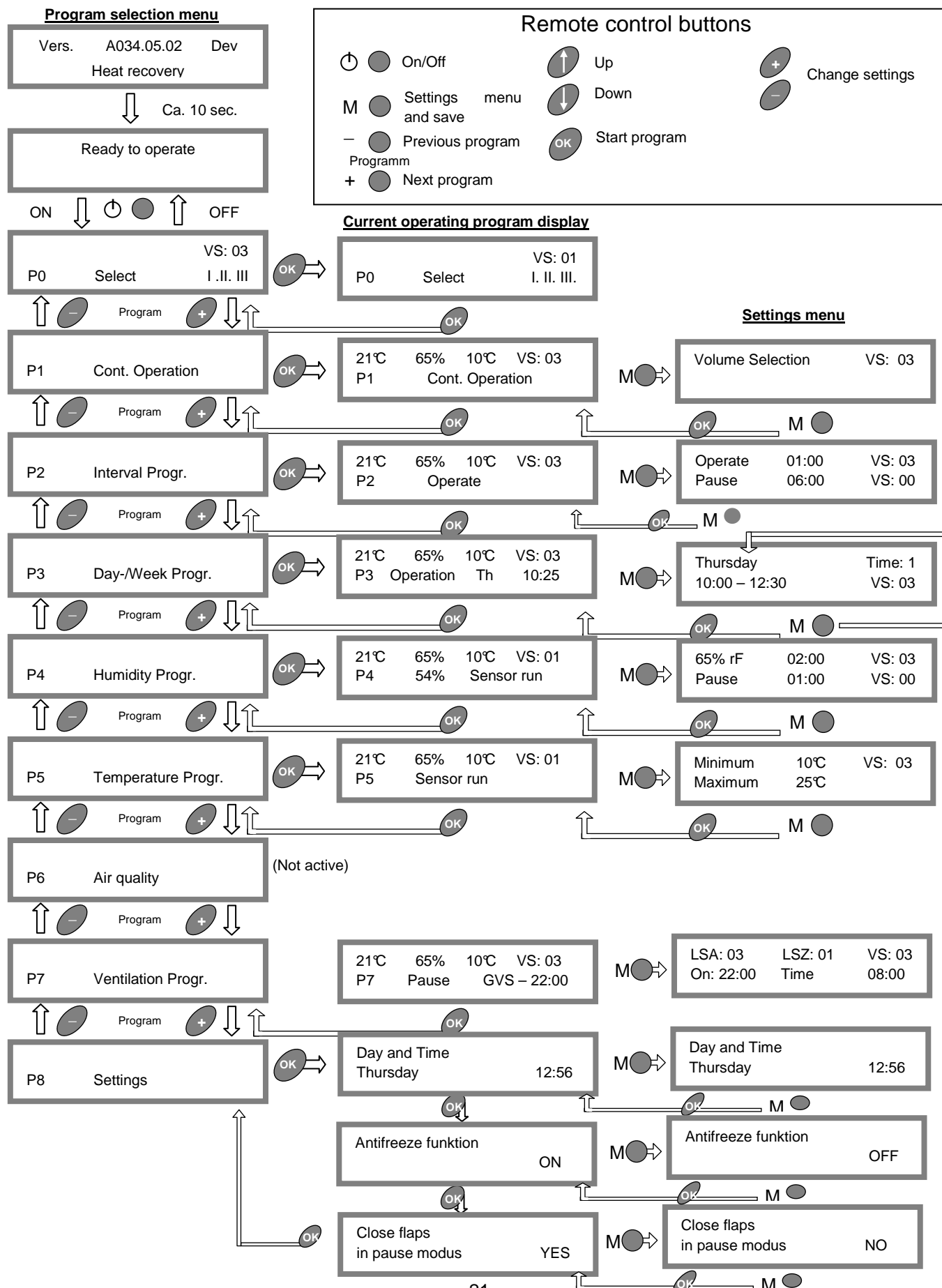
- Grab the cover with both hands
- Place it onto the unit and insert the hooks into the slots
- Rotate the cover downwards
- Carefully push the cover closed on the bottom edge until the hooks on each side snap into place.
- Turn the M-WRG-K ventilation unit back on with the power switch



6. Trouble shooting

Problem	Reason	Solution
M-WRG-K ventilation unit does not work	Installation error. Power switch, motor or main control is/are defective.	Let a certified electrician test the connecting wires
Air flaps do not open once the M-WRG-K ventilation unit is switched ON	<p>If the M-WRG-K ventilation unit is not operated for a longer interval of time or operated for the first time, the motor may not receive power from the electronic wiring.</p> <p>Air flaps may be clogged (e.g. dirt, polystyrene, plaster, etc)</p>	<p>The M-WRG-K ventilation unit should be switched ON and OFF again by the operator</p> <p>Remove any clogging material (remove cover to do so, User manual p.7)</p>
M-WRG-K ventilation unit starts to beep in intervals	The M-WRG-K ventilation unit signals a soon to be done filter replacement	Replace the filters. (User manual p.7)
M-WRG-K ventilation unit does not react to the remote control	Check the batteries	Replace batteries if necessary
M-WRG-K ventilation unit does not run programs P3 or P7 in the correct time intervals	A power shortage occurred.	Reenter the date and time settings in program P8.
Display malfunction	Software fault	Unplug the M-WRG-K ventilation unit for approximately 30 seconds and then switch it ON again

7. Program overview



8. Technical data

Technical Data	M-WRG Ventilation Unit
Ventilation air volume (m ³ /h)	15/30/60**
Fan speed	3 Levels
Heat exchange core	aluminum plate cross-flow heat exchanger
Heat recovery rate (%)	76
Air Leakage (%)	0.1
Fan	high efficiency radial fan with long life DC motor
Power consumption (W)	3.8 / 5.2 / 12.5
Specific Power consumption (W/m ³ /h)	0.17
Max. current (A)	0.06
Power cable (mm ²)	2 x 1.5
Operating voltage (V/Hz)	230 / 50
Noise level (Lp in dB (A) 10 m ²), concealed installation	15.5 / 24 / 36
Noise level (Lp in dB (A) 10 m ²), wall mounted	19 / 24 / 35
Weight (kg)	approx. 8.1
Air duct diameter (mm)	100
Ventilation unit dimensions (W x H x D) in mm	409 x 388 x 196
Filter class / filter surface in m ²	
Standard filter	G4 / 0.36
Allergy filter (optional)	F 7 / 0.32
Activated carbon filter (optional)	F 6 / 0.12
Fully automatic air flap control, even during blackouts	yes
Condensate drainage	through exhaust air duct
Filter replacement indicator	acoustic
Antifreeze protection	yes
International Protection Rating (IP)	IP X1 / IP X4
Approved by German Institute for Civil Engineering (DIBt)	Z-51.3-138
TÜV certified (CE)	yes

