

## **Need for regular air filter replacement on M-WRG-II and M-WRG ventilation units**

Regular replacement of the air filter is important for the flat users for hygienic reasons and is essential to maintain the function of the ventilation unit. In accordance with DIN 1946-6 "Ventilation of dwellings", air filters should be changed twice a year. For hygienic reasons, outdoor air and extract air filters must always be replaced in pairs at the latest after one year. Please also take note of the operating and maintenance instructions for the respective device series, which can be viewed and downloaded at <https://www.meltem.com/>.

### **Possible consequences if the air filter is not changed regularly**

#### Indoor air hygiene

The removal of excessive indoor air humidity and possibly high outdoor air humidity (e.g. fog) can lead to moisture in the air filters. During continuous operation of the ventilation unit, the filter cartridges are dried again. However, a lot of dirt and particles in the air filters are the reason that the humidity can last longer. If the device is switched off, especially during the heating period, there is a risk of bacteria or germs forming on the filter material and the risk of polluting the supply air when the air flows through the unit again. We therefore recommend changing the air filter before the heating period, i.e. before the main running time of the ventilation device.

#### Acoustics and energy characteristics of the ventilation unit

The filled air filters increase the resistance in the air flow (pressure losses) of the ventilation unit. The higher speed of the fan motors leads to a noise increase in devices, which is particularly undesirable in living rooms and bedrooms.

Experience shows that the outdoor air and the extract air filters are soiled to a different extent. As a rule, the extract air filter is more strongly loaded. This leads to the imbalance between supply air and extract air, which is followed by a reduction in the degree of heat recovery.

Regular air filter changes are not only a basic requirement for hygienic air changes, but also necessary to ensure the function and longevity of the ventilation unit.

#### Technical product management

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