

Adroit DV50- DV80 Units Filter Maintenance Guide

MVHR (Mechanical Ventilation with Heat Recovery) units require regular filter maintenance (cleaning or replacement). The Airflow MVHR units have been designed to facilitate convenient access to the filters with easy maintenance in mind. The Airflow filters are tested and compliant with ISO 16890.

This filter replacement guide is specific for the following products (it also applies to the EPH unit versions):

Product no	Description
90001273	DV50 (R) Adroit with integral CO ₂ sensor
90001274	DV50 (L) Adroit with integral CO ₂ sensor
90001275	DV80 (R) Adroit with integral CO ₂ sensor
90001276	DV80 (L) Adroit with integral CO ₂ sensor

Filter replacement indication

The safety switch automatically turns off the power when the upper door of the unit is opened.

Always disconnect the power plug before starting the ventilation unit maintenance. The maintenance reminder indicates filter replacement with a pop-up window.



To acknowledge the maintenance reminder message, press the tick button.

Press the back button to postpone the reminder for one week.

When the maintenance reminder becomes activated, check the cleanliness of the filters and replace them if required.

The Adroit ventilation unit has three air filters:

2 x ISO Coarse > 75% (G4) - complies to ISO 16890, coarse filter; filters insects, heavy pollen and other relatively large foreign objects out of the outdoor air (A).

1 x ISO ePM1 50% (F7) filters - complies to ISO 16890 fine filter; filters microscopic pollen and dust particles out of the supply air (B).

The coarse filter; filters the extract air and keeps the heat recovery cell clean (C).

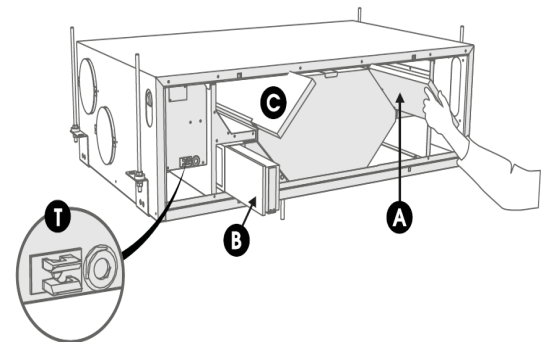
The filter replacement interval depends on the ambient particle concentration. It is recommended that the filters are replaced every spring and autumn or at the very least once a year.

To replace the filters, follow the next steps:

1. Disconnect the ventilation unit from the mains power supply.
2. Open the door of the unit.

CAUTION: The door is heavy.

3. Lift the door off.
4. Remove the old filters (A, B, C) and discard them.
5. Install the new filters (A, B, C).
6. Close the door of the unit. Ensure that the safety switch of the door is engaged, allow the unit to be turned on.
7. Plug the ventilation unit back into the mains.
8. The filters have now been successfully replaced.



Using original filters ensures that the ventilation unit has high performance.

Product no	Description	Dimensions (mm)
90000620	DV50 Adroit Filter Set	G4 ISO Coarse > 75% - 500 x 105 mm
		G4 ISO Coarse > 75% - 400 x 105 mm
		F7 ePM1 55% - 506 x 70 mm
90000621	DV80 Adroit Filter Set	G4 ISO Coarse > 75% - 580 x 145 mm
		G4 ISO Coarse > 75% - 450 x 145 mm
		F7 ePM1 55% - 585 x 97 mm