

Protocol for activated air sampling with Mycometer®-air Fungi – Allergen - FAI

Flowrate:	As high as possible. Minimum 10 LPM. Always note the flowrate and the rotameter calibration (MAIR001 or MAIR003). For FAI use same flowrate on both filters. For QA/QC the minimum flowrate is 15 LPM.
Sampling time:	Always 10 minutes.
Sampling height:	≈ 1,30 m. (4.3 feet)
Filter:	Use only Mycometer air filters.
Filter orientation:	Remove the whole lid from the filter cassette when sampling. Opening pointing up.
Safety:	Respiratory protection fulfilling local regulation, is mandatory for all persons in the room during blowing and sampling and 30 minutes after the blowing was concluded.
Use of blower:	Use a Makita blower.
Blower:	One sample covers up to 60 m ² (650 sq. ft.) In larger rooms divide the room into several areas.
Room size:	Can be stored at ambient temperature for up to one week before being analyzed. Do not refrigerate.
Samples:	
Window should be closed 6 hours before sampling. Note if mechanical ventilation, dehumidifiers, air cleaners or other devices which may reduce the level of particles in the air, are running.	

1. Set up the pump and tripod. Plug in the wall socket and attach the tubing to the manifold.
2. Fill out the sampling sheet
3. Place one (Fungi or Allergen) or two (FAI) “Test filter(s)” in the filter holders on the manifold. Remove the lid(s) from the filters and start the pump(s). Adjust the flowrate to the highest possible (min. 10 lpm) and if doing FAI, make sure it is the same for both filters.
4. Replace the “Test filter(s)” with one (Fungi or Allergen) or two (FAI) and give them an ID (the same when doing FAI). Note the flowrate, the rotameter calibration and other.
5. Set a timer on 30 seconds and one on 10 minutes. (Cannot be varied).
6. Put on the respiratory protection.
7. Now *blow* on all surfaces with a distance of **approx. 2 meters (6.6 feet)** with the Makita blower (speed setting 2 or 3 depending on the model). Start with the ceiling, then the walls ending with furniture and the floor. Always keep the distance and do not blow from a short distance to release dust from reservoirs that are almost newer cleaned (e.g., between the lamella of a radiator). Use the blower approx. 1 min per 10 m². (108 sq. ft.)
8. When finished with the blowing, start the 30 seconds timer, and remove the lids from the filters (not just the blue stopper).
9. Start the pump when the timer signals and start the 10 minutes timer.
10. Then fine tune the flowrate. The middle of the metal ball should be at the middle of the line on the rotameter.
11. When the timer signals, stop the pump, and put the lid and the red stopper back on the filter.