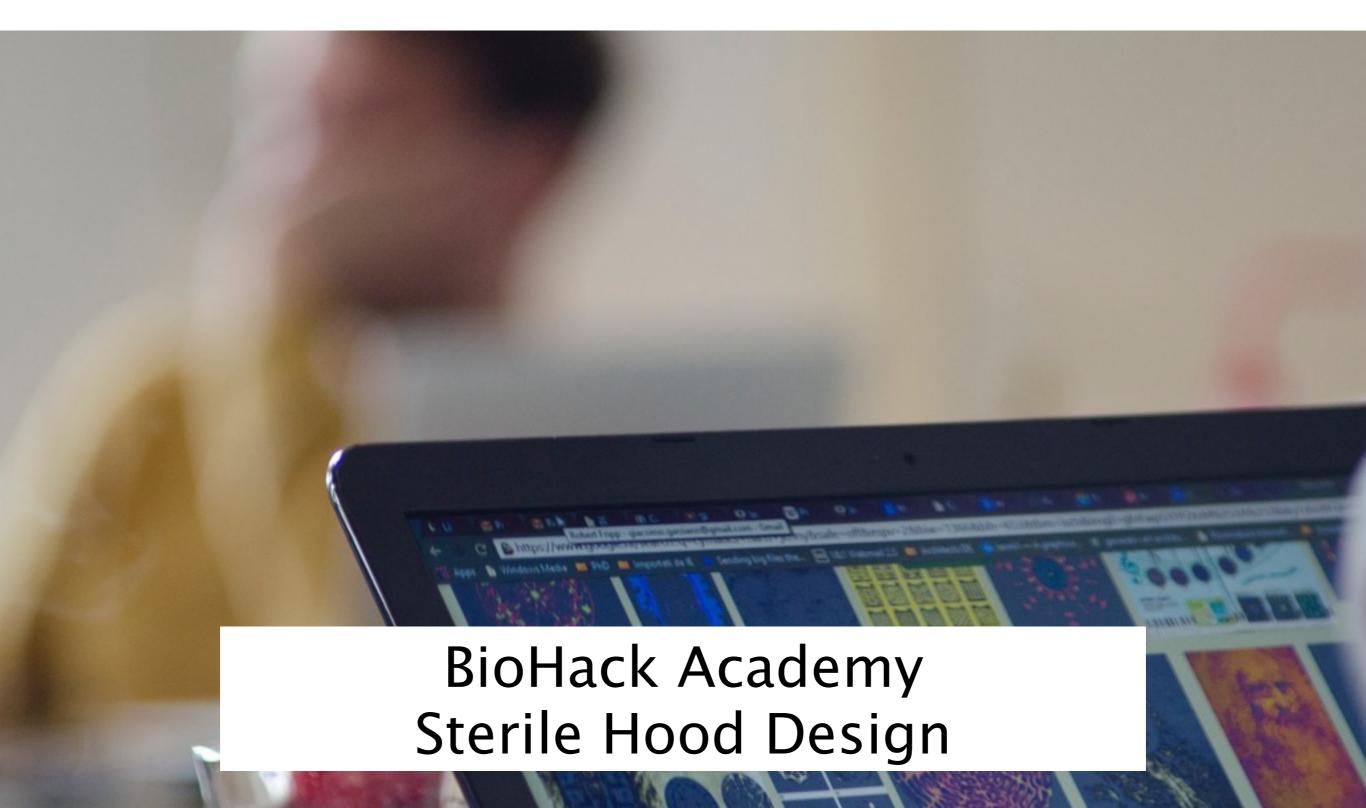
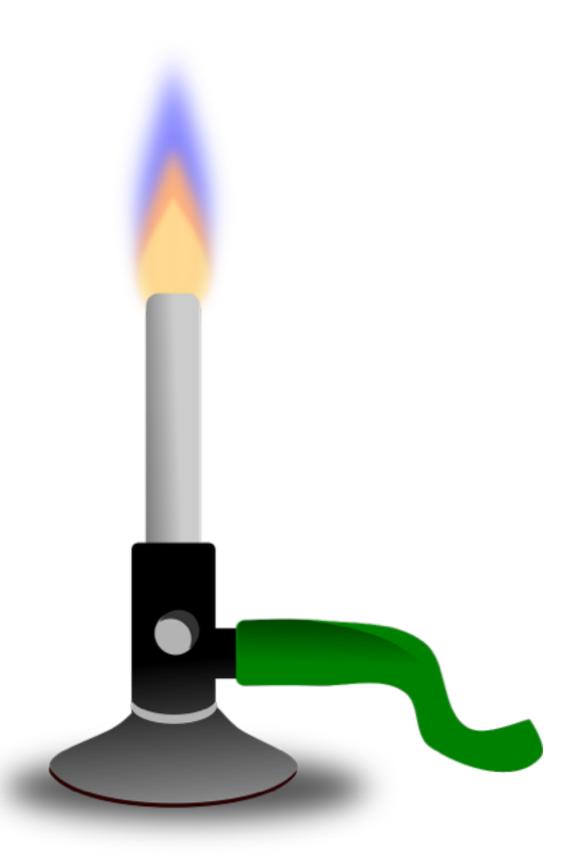


institute for art, science and technology





Working sterile



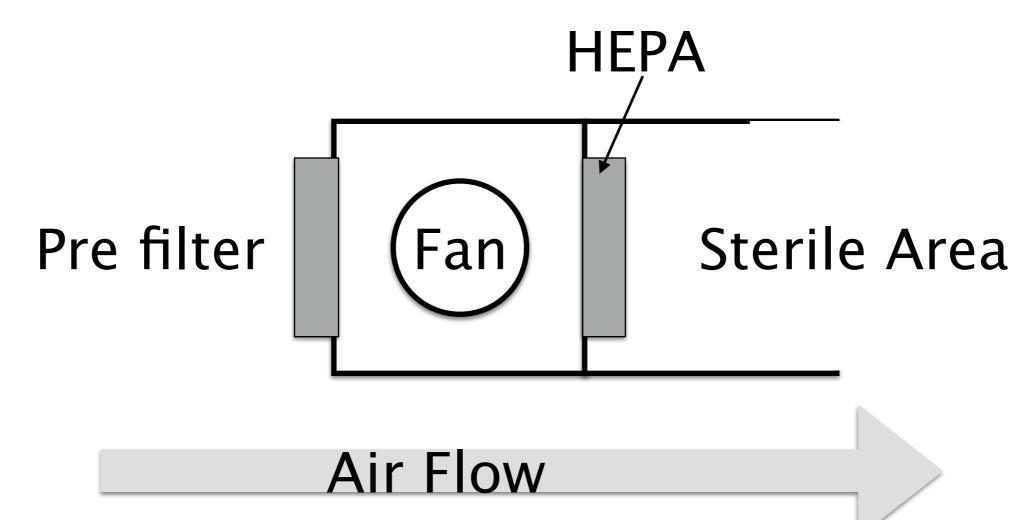






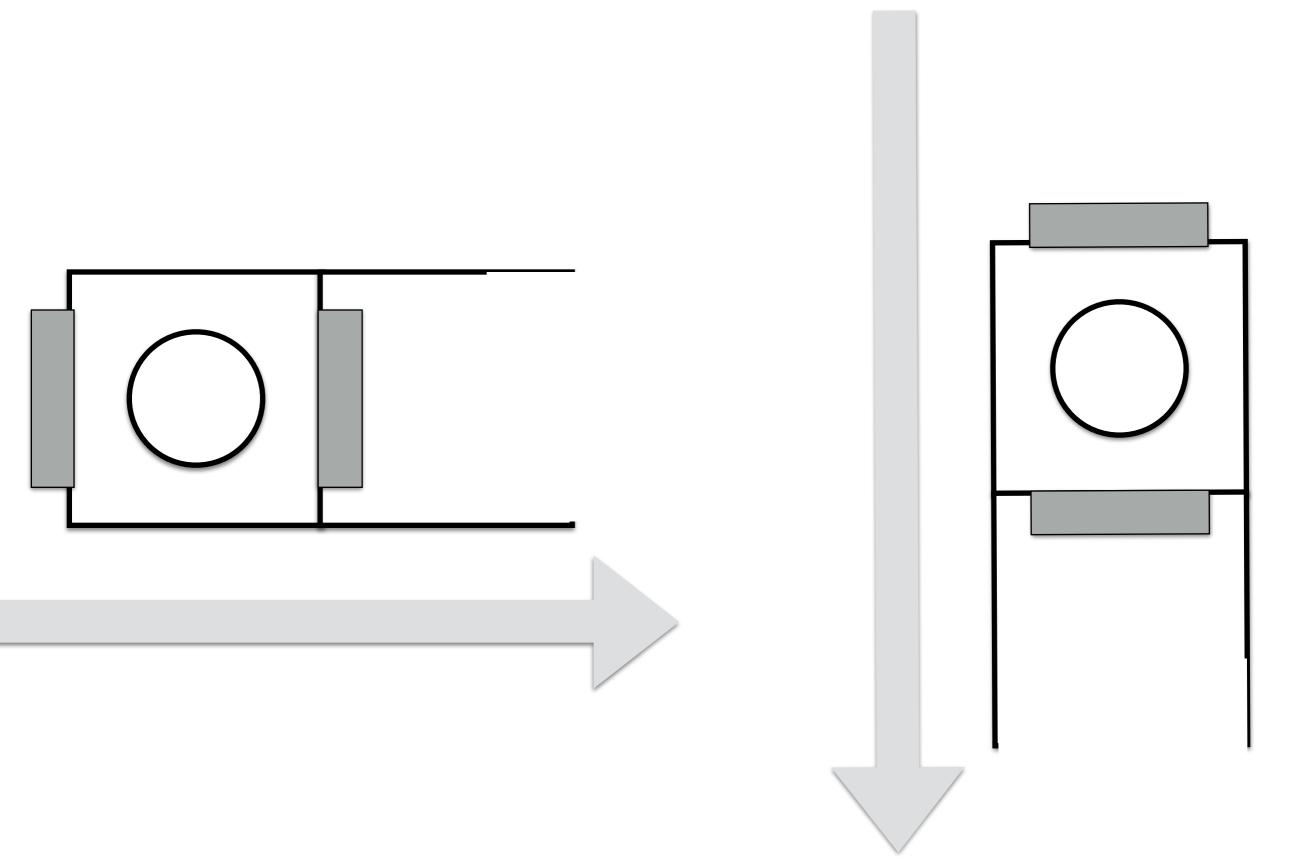
Components

- Pre filter
- Fan
- HEPA Filter
- Minimal air flow of 0.5 m / second



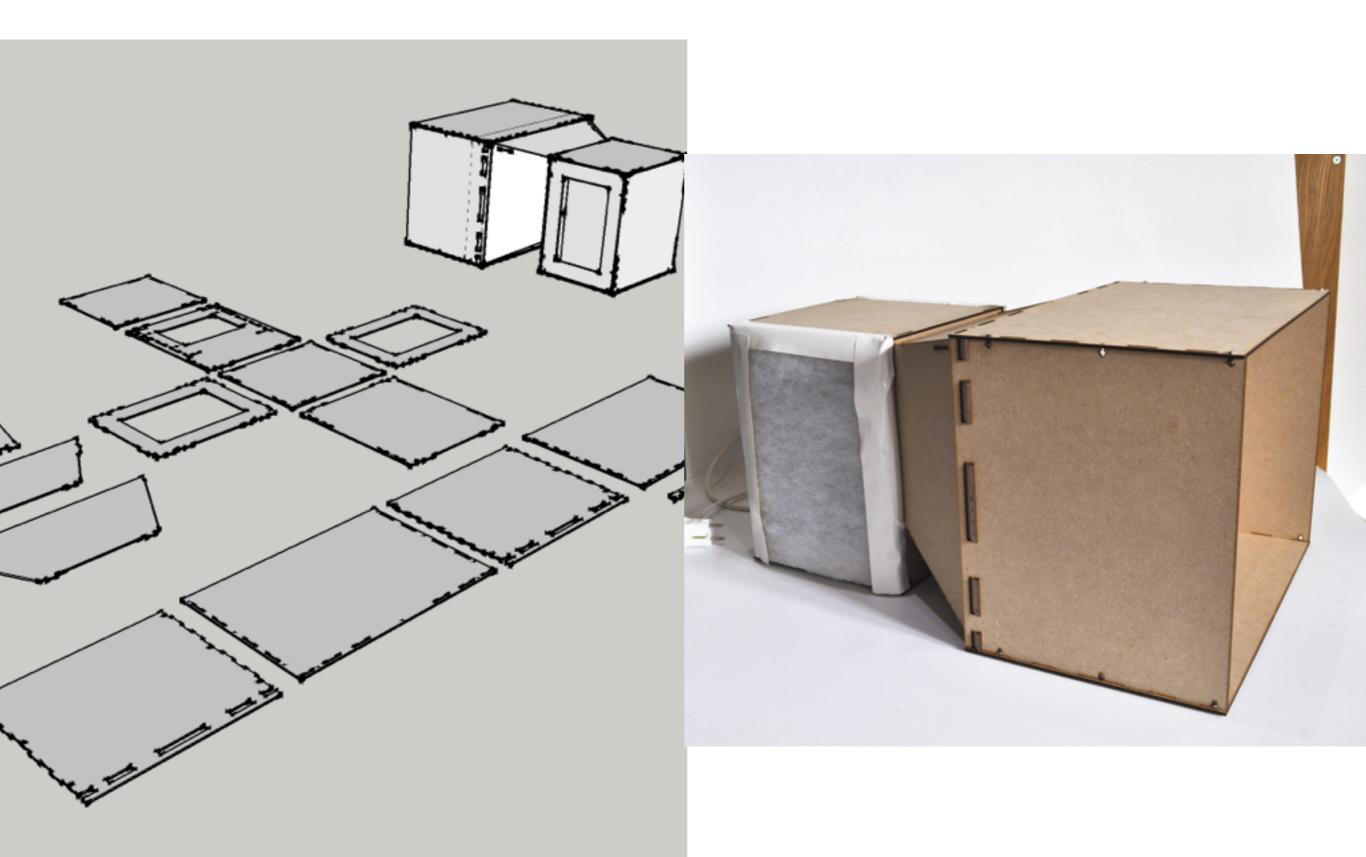


Horizontal vs Vertical airflow



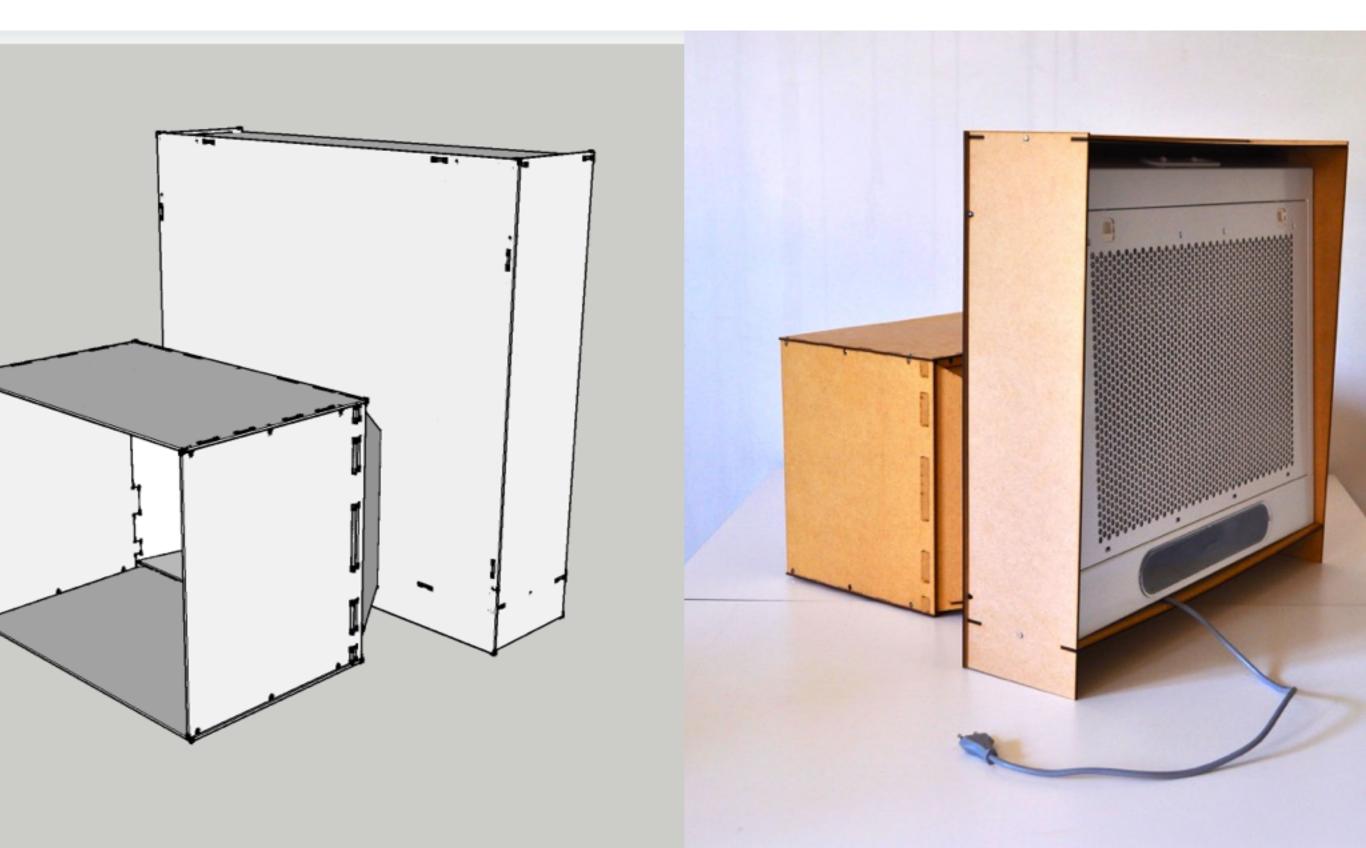


BioHack Academy 1 Design



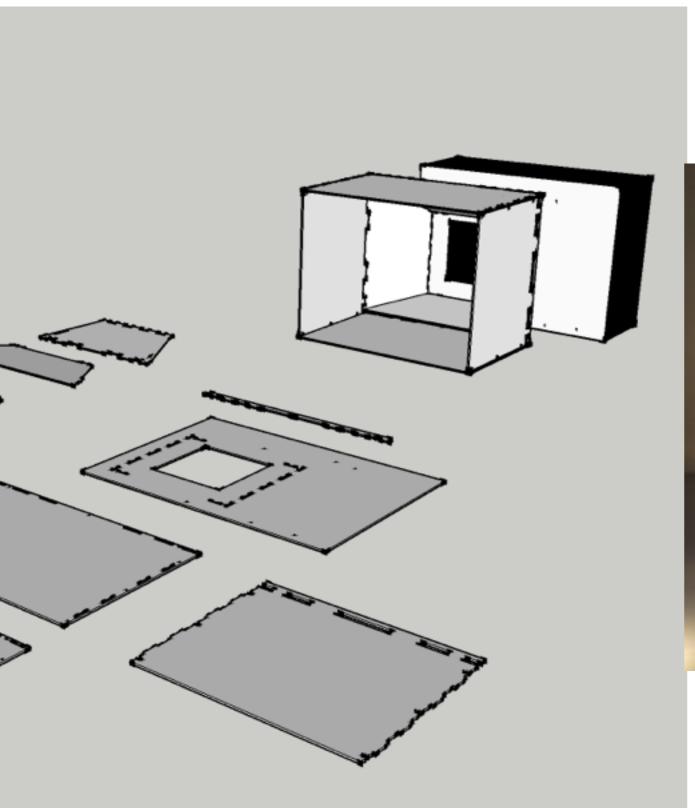


BioHack Academy 2 Design





BioHack Academy 3 Design







- Fellowes office air filter
- 0.3 micron pores
- 99.97% filtering
- H14 class
 - EN1822 standard



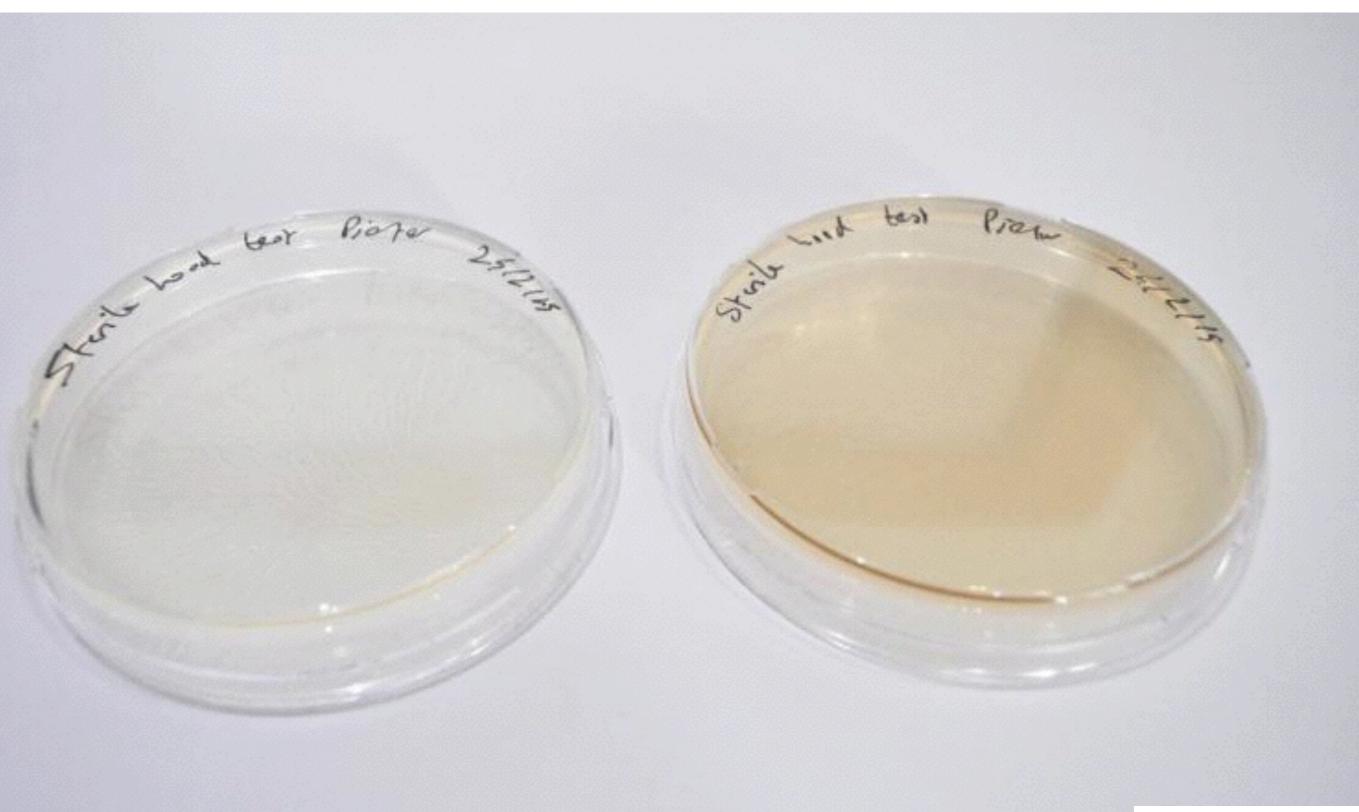
- Calculate the airflow
- Needed:
 - $0.41 \times 0.32 \times 0.5 =$
 - 0.0656
 - cubic meter / second
 - 236.16
 - cubic meter / hour
 - We choose 250 cubic meter / hour



IKEA



Test results





Schedule Monday / Tuesday

- Monday Morning:
 - 10:00 Lab Tour & Safety Demonstration
 - 13:00 FreeCAD 3D modeling workshop
- Tuesday:
 - 10:00 Principles of Electronics
 - 13:00 SketchUp modeling workshop
 - 15:00 Production and assembly of SterileHood

