

Air Quality: Living Filtration as Measurable IAQ Improvement

Plants absorb VOCs and PM2.5 continuously. Static filters need replacing.

At a Glance

Plants continuously absorb volatile organic compounds and particulates. Static HEPA filters clog requiring quarterly replacement. Living filtration continuously works never clogs. Air quality built in.

Summary

Indoor air quality suffers from particulates (dust, pollution, off-gassing) and gases (formaldehyde, benzene). HVAC filters address particulates generating maintenance burden and replacement cost. Botanical air filtration is passive and continuous: plants absorb gases through stomata and capture particulates on leaf surfaces. Evidence base is strong in botanical literature. Combined with Thermopod™ Biothermal Microconditioning, air quality improvement becomes side-effect of cooling system. For hospitals, schools, offices with occupant health mandates, dual-function capability simplifies compliance and reduces cost. Occupants breathe healthier air. Sick day rates improve measurably over time.