

# aethair PRO for IVF Clinics

Enhancing Embryo Viability  
and Ensuring Safe Air Quality



Aethair Pro is the ultimate air monitoring solution for IVF clinics, providing real-time, high-precision monitoring of volatile organic compounds (VOCs) and differential pressure. With its advanced capabilities, Aethair Pro ensures the highest viability for embryos during laboratory cultivation and safeguards the air quality in operating rooms (ORs) during embryo implantation, protecting both staff and the mother.



## Importance of Air Quality in IVF Clinics

Airborne contaminants can severely impact embryonic development and implantation success. Aethair Pro provides continuous monitoring to maintain optimal conditions by:

### › Reducing VOC Exposure

Eliminate contaminants from lab plastics, solvents, and building materials that can harm embryos.

### › Maintaining Differential Pressure

Ensure positive pressure in the OR to prevent contamination during embryo implantation.

### › Enhancing Embryo Viability

Provide real-time data on critical air parameters to optimize lab conditions for fertilization & growth.

## Key Monitoring Capabilities of Aethair Pro

Feature	Specification
VOC Detection Sensitivity	ppb-level detection for critical embryotoxic compounds
Differential Pressure Monitoring	Continuous assessment of OR pressurization for sterile conditions
CO <sub>2</sub> and Air Quality Tracking	Ensures optimal ventilation in lab and OR settings
Multi-Gas Capability	Monitors NO <sub>2</sub> , SO <sub>2</sub> , CO <sub>2</sub> , and additional contaminants

# Benefits of Aethair Pro in IVF Clinics

## Enhanced Embryo Viability



Reduce VOC exposure for improved fertilization success rates

## Optimal OR Air Quality



Prevent contamination during embryo implantation

## Real-Time Air Monitoring



Ensure staff and maternal safety from airborne hazards

## Regulatory Compliance



Aligns with medical and cleanroom air quality standards.

## Quality Assurance Data Logging



Supports accreditation and lab compliance

## Critical Airborne Contaminants in IVF Clinics

Contaminant	Source	Potential Impact on Embryos & Staff
<b>Formaldehyde</b>	Disinfectants, lab furniture	Embryotoxic at low concentrations
<b>Toluene</b>	Paints, adhesives	Can disrupt embryo development
<b>Xylene</b>	Solvents, lab equipment	Impacts cell viability
<b>Acetone</b>	Cleaning agents, plastics	Causes oxidative stress
<b>Benzene</b>	Outdoor pollution, lab solvents	Known reproductive toxin

## Applications in IVF Clinics

Application	Monitoring Focus
<b>Embryo Culture Rooms</b>	VOC minimization to protect embryo development
<b>Cryopreservation Labs</b>	Preventing contamination of frozen samples
<b>Operating Rooms (ORs)</b>	Monitoring differential pressure for contamination control
<b>Air Handling Units</b>	Ensuring proper air exchange and filtration
<b>Adjacent Office Spaces</b>	Preventing external contamination
<b>Chemical Storage Areas</b>	Detecting VOC off-gassing from lab materials

## Conclusion

Aethair Pro is the premier solution for ensuring optimal air quality in IVF clinics. By delivering real-time monitoring of VOCs and differential pressure, it maximizes embryo viability while safeguarding OR environments. Highly configurable for all air monitoring needs—indoor, outdoor, and on the go—Aethair Pro provides unparalleled protection for embryos, medical staff, and patients, ensuring the highest success rates for IVF procedures.

## How can we help you?

If you would like to find out more about how we can help you, please give us a call or send us an email.

Contact Us: +1 (267) 225-8487 [sales@aethair.io](mailto:sales@aethair.io)



See The Air You Breathe  
[aethair.io](https://aethair.io)