

# 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

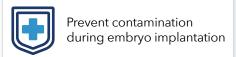
Feature	Specification
VOC Detection Sensitivity	ppb-level detection for critical embryotoxic compounds
Differential Pressure Monitoring	Continuous assessment of OR pressurization for sterile conditions
CO2 and Air Quality Tracking	Ensures optimal ventilation in lab and OR settings
Multi-Gas Capability	Monitors NO2, SO2, CO2, 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**



#### **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
Formaldehyde	Disinfectants, lab furniture	Embryotoxic at low concentrations
Toluene	Paints, adhesives	Can disrupt embryo development
Xylene	Solvents, lab equipment	Impacts cell viability
Acetone	Cleaning agents, plastics	Causes oxidative stress
Benzene	Outdoor pollution, lab solvents	Known reproductive toxin

# **Applications in IVF Clinics**

Application	Monitoring Focus	
Embryo Culture Rooms	VOC minimization to protect embryo development	
Cryopreservation Labs	Preventing contamination of frozen samples	
Operating Rooms (ORs)	Monitoring differential pressure for contamination control	
Air Handling Units	Ensuring proper air exchange and filtration	
Adjacent Office Spaces	Preventing external contamination	
Chemical Storage Areas	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.

