



# Health is in the Air

Introducing the first **Artificial Intelligence** based solution for continuous monitoring of an **HVAC system**'s operational health and cleanliness.





- How It Works
- Why choose REMOTAIR®
- How to buy REMOTAIR®
- Technical Specifications





### WHAT IS REMOTAIR®

REMOTAIR® is an Artificial intelligence based "real-time" cleanliness monitoring system for HVAC plants. It's a genius interplay of hardware and software.

REMOTAIR® is the technological equivalent of having a fully certified IAQ professional monitoring your HVAC system 24 hours a day/ 7 days a week.

Data recorded on the HVAC system is stored on the cloud and displayed on our REMOTAIR® Portal accessible from a laptop or smart phone. Alerts are sent to the user when critical thresholds (for superior cleanliness) are surpassed. REMOTAIR® is the only technology that uses machine learning to understand your HVAC system, track the contamination and make accurate predictions about future events.

REMOTAIR® utilizes cutting-edge sensors and data collection technologies specifically designed for the HVAC industry. Continuous and real-time monitoring is provided by REMOTAIR®'s proprietary software.

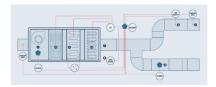
Through the use of predictive analysis, REMOTAIR® can diagnose and foresee cleanliness and maintenance issues before dangerous contamination occurs.



### **HOW IT WORKS**

REMOTAIR® uses cutting-edge technologies to offer the most advanced HVAC monitoring and contaminate prevention system in the world.

- O1 Utilizing Cameras in Air Handling Units and Ducts, photos are catalogued multiple times per day tracking contamination over time. With the use of historical data, the machine learning capabilities can provide an accurate determination of (Clean or Dirty)
- **02** Special proprietary optical Camera, measures in grams/Sq M, contaminate buildup on surfaces of air ducts
- **03** With dust as a nutrient base, Temperature and Relative Humidity are recorded in real time, calculating the risk of microbial growth
- **04** Delta Pressure sensors provide real time data on Filter performance and when they need to be changed



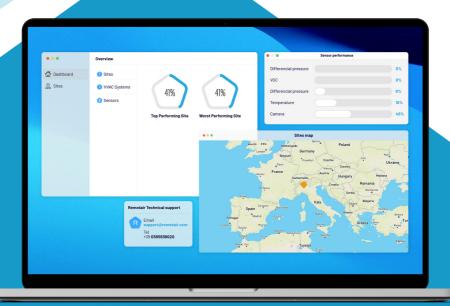
- **05** Delta pressure is deployed for coil performance to understand when maintenance is required
- **06** Chemical and microclimatic indicators are measured continuously and used to calculate the quality of supply air
- **07** REMOTAIR® can plug and play with UV lights, Oxidizers and Ionization systems
- **08** Magnets are strategically placed on AHU Doors to alert of any maintenance interventions.





# WHY CHOOSE REMOTAIR®

REMOTAIR® allows you to constantly monitor the hygienic state of HVAC systems and the quality of supply air through a cloud platform accessible from any device (computer or smartphone). REMOTAIR® technology is based on secure and certified MOTT communications with our cloud server powered by AWS (Amazon Web Service)



### **HOW TO BUY REMOTAIR®**

For a quote on the purchase of a REMOTAIR® system or for interest in distribution opportunities contact us at **info@remotair.com** 



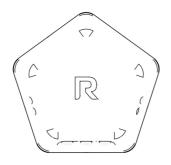
# **TECHNICAL SPECIFICATIONS**

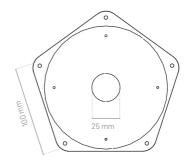
|303|305|306A|306B|



### 303 - Filter and Coil Status Sensor

#### **DIMENSIONS**





#### HARDWARE

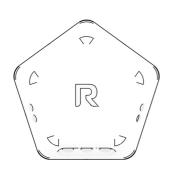
- Proprietary REMOTAIR® motherboard
- Computer-On-Module
- SD Memory Card
- 2 Delta (Differential Pressure) Sensors (±500 Pa)

- OPERATING 24 V DC power supply
- SPECIFICATIONS Wireless network IEEE 802.11 b/g/n
  - WPA2/PSK
  - Encrypted/certified connectivity with AWS cloud server



## 305 - IAQ Sensor

#### **DIMENSIONS**





#### HARDWARE

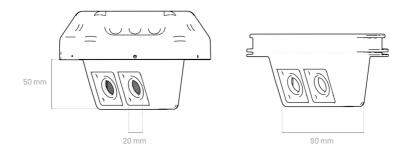
- Proprietary REMOTAIR® motherboard
- Computer-On-Module
- SD Memory Card
- Digital Air Quality Multi-Sensor
  - CO2 (400 ppm 1500 ppm)
  - VOC (0 ppb 2000 ppb)
  - Temperature (-20 °C 60 °C)
  - Relative humidity (0 % 100 %)

- OPERATING 24 V DC power supply
- SPECIFICATIONS Wireless network IEEE 802.11 b/g/n
  - WPA2/PSK
  - Encrypted/certified connectivity with AWS cloud server



## 306 A - Air Duct Cameras

#### **DIMENSIONS**



#### HARDWARE

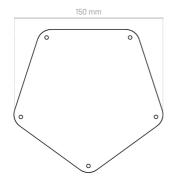
- Proprietary REMOTAIR® motherboard
- Computer-On-Module
- · SD Memory Card
- Two Flash LEDs (320 lm)
- Two 8 MP digital cameras
  - HD images
  - · Sony IMX219 sensor
  - Capture images in JPEG or PNG
  - Exposure managed automatically
  - · Automatic white balance

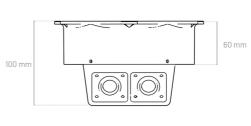
- OPERATING 24 V DC power supply
- SPECIFICATIONS Wireless network IEEE 802.11 b/g/n
  - WPA2/PSK
  - Encrypted/certified connectivity with AWS cloud server



### 306 B - AHU Cameras

#### **DIMENSIONS**





#### HARDWARE

- Proprietary REMOTAIR® motherboard
  - Computer-On-Module
  - · SD Memory Card
  - Two Flash LEDs (320 lm)
  - Two 8 MP digital cameras
    - HD images
    - Sony IMX219 sensor
    - Capture images in JPEG or PNG
    - Exposure managed automatically
    - · Automatic white balance

- OPERATING 24 V DC power supply
- SPECIFICATIONS Wireless network IEEE 802.11 b/g/n
  - WPA2/PSK
  - Encrypted/certified connectivity with AWS cloud server

