



ActiveBuildings

Securing the future of buildings,
residents, and the environment



INSIGHTS

Most ventilation systems and air filtration in India can be proven faulty within 10 minutes of monitoring.

All Buildings can improve their ventilation and indoor air quality with simple improvements and monitoring

WHAT DO BUSINESSES LOSE TO BAD AIR?

1

Revenue Losses

Indians take 1.3 billion days off work every year because of the adverse effects of air pollution on their health

2

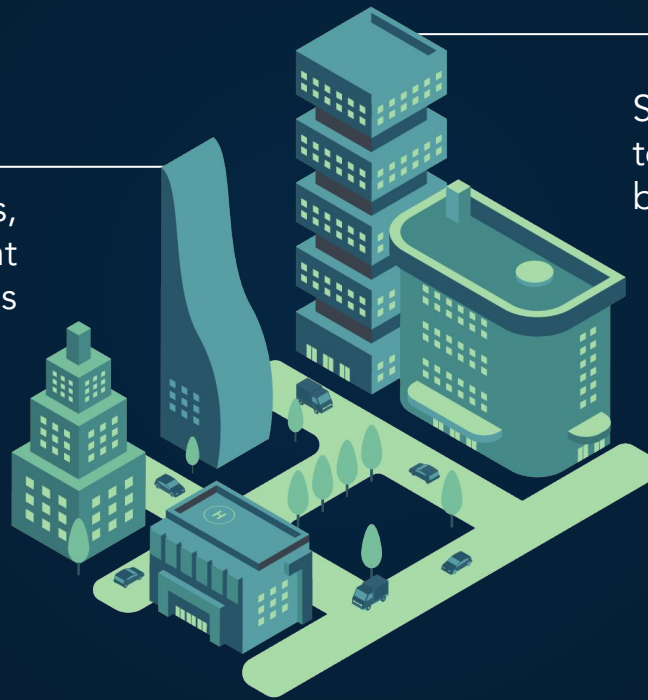
\$97 billion annually more losses

Due to reduction in on-the-job productivity because cognitive & physical performance is impacted in bad air quality

EXISTING PATTERNS

Replace ventilation systems,
install Building Management
Systems

which is a very capital
heavy investment that
leads to no tangible
benefits



Shut off fresh air supply
to save costs on energy
bills

this leads to choking of
existing filtration
equipment in the building,
and loss of productivity
due to poor air quality

A Building Is...



85%

Staff costs



Intangible costs, or the cost that often gets ignored

5%

Maintenance costs

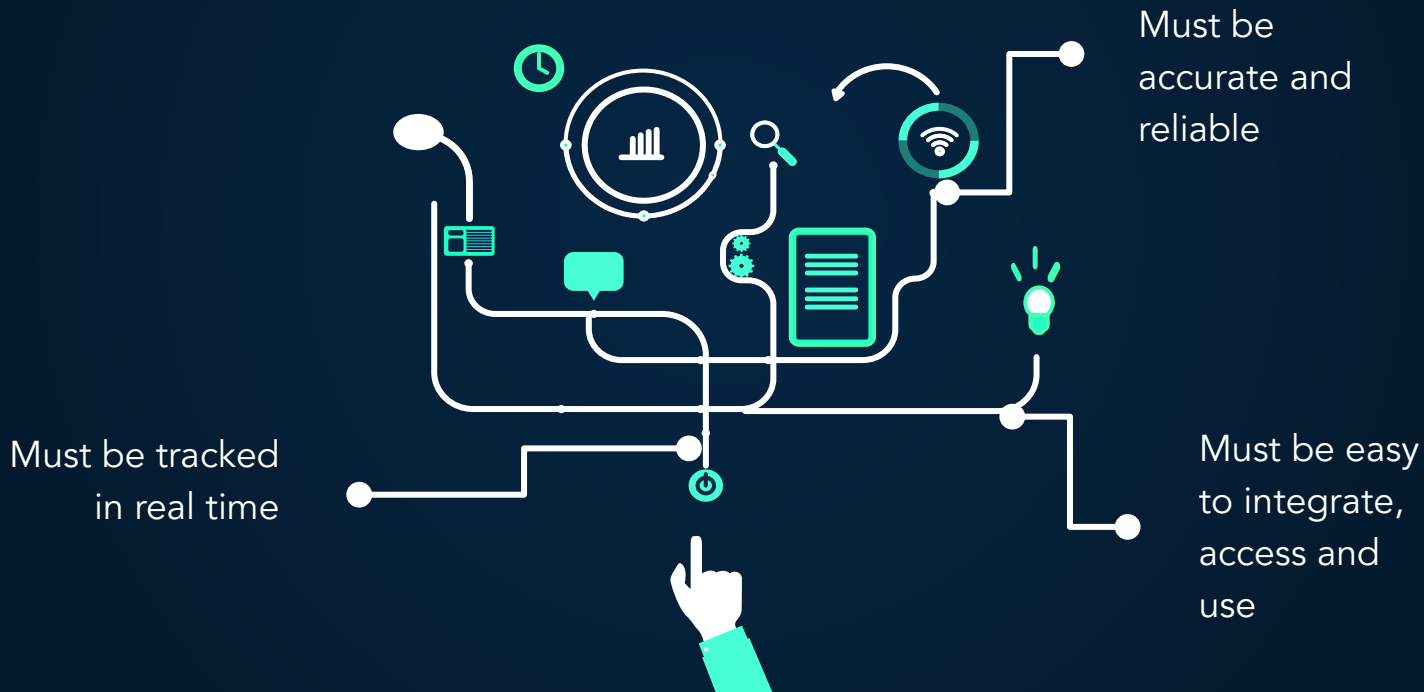


Tangible costs, or the costs we see buildings trying to save

ActiveBuildings can help you save
money on the 85%



IF YOU CAN'T TRACK IT, YOU CAN'T FIX IT



HOW DO WE DO THAT?



PRIORITISING DRIVERS OF A HEALTHY BUILDING

Poor air quality
Mould growth
Lack of fresh air
Transmission of diseases



MODERATING IMPACT OF UNHEALTHY BUILDINGS

Absenteeism
Low productivity
Building O&M Costs
Staff Retention



FUTURE PROOFING THE POST PANDEMIC WORLD

Checking the
transmission of disease
causing viruses in a
post pandemic world



Improved Indoor Air Quality



Cost Savings



Energy Savings



Healthy & Productive Work
Spaces

GUARANTEED



OUR DATA DRIVEN SOLUTIONS



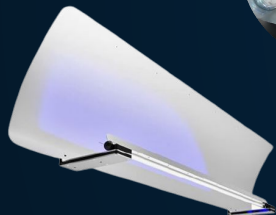
REAL TIME SENSING

Monitor over 15 air quality parameters in a single device. SIM and WiFi enabled. Can wirelessly integrate with any HVAC system



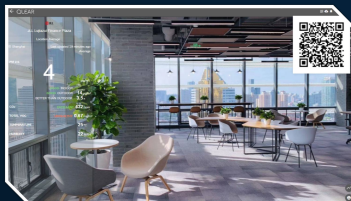
PUREQI + VENTMATE AIR SYSTEMS

Guaranteed improvement in air quality - from reducing Particulate/Chemical Pollutants to improving fresh air levels indoors



REFLECTAIR - ROOM STERILIZATION SYSTEM

Patent pending UVGI system for indoor environments with 3x efficiency in coverage and




Parameter	Measurement	Unit	Standard	Status
PM2.5	100	µg/m³	150	Good
PM10	200	µg/m³	300	Good
CO2	400	ppm	1000	Good
Temp	22	°C	24	Good
Humidity	50	%	60	Good
VOC	0.1	ppb	1.0	Good
Formaldehyde	0.01	ppb	0.1	Good
Radon	1.0	pCi/L	4.0	Good


ADVANCED DASHBOARDS + REPORTS

Integrated dashboards allow for 360 degree management of Indoor Environment Quality (IEQ) - including overall building health index

ActiveBuildings Air Quality Monitor

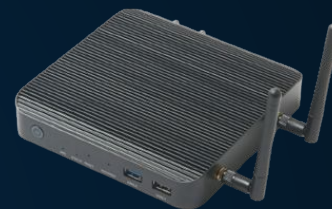
- Five parameter indoor air quality monitor (PM2.5, CO2, TVOC, Temp & RH) certified by RESET Air
- WIFI/4G/2G/wired-RS485/wireless-RS485 data connections (BMS capable)
- Modular sensors for easy calibration and replacement
- Suitable for wall-mounted or desktop installation
- API access available and 3rd part dashboard compatible



No.	Pictures of Monitors	Size(mm)	Available Indicators	PM2.5 Range	TVOC Range	CO ₂ Measurement scope	Qualified for WELL and RESET certification	Highlights
ActiveIEQ-v7		180×127×40	Standard 5-sensor: PM2.5, CO2, TVOC, Temp & RH	1-999 µg/m ³	0-60000 ppb	400-8000ppm	Yes	SIM/Wifi Enabled sensor, plug-n-play systems for wireless MODBUS/BACNET. Ideal for retrofit buildings.

ActiveBuildings BMS Gateway

- Gateway to wirelessly connect IAQ sensors to BMS/PLC
- WIFI/4G/2G/wired-RS485/wireless-RS485 data connections (BMS capable)
- Can host IAQ dashboard and software for sensitive buildings – Pharma, Banks, Insurance etc
- Suitable for retrofit building and data-sensitive buildings.



No.	Pictures of Monitors	Size(mm)	Available Outputs	Connectivity	Edge Computing	Processor Details
AB-BMS-v3		144x119x42	RS485, RS232, BacNet over IP, MODBUS over IP	Ethernet/Wifi/4G	NVIDIA-Jetson	2.5Ghz Quad Core



PURE-QI™

Commercial Air Purifier



The quietest

Quietest commercial air purifier <45dB



The highest

High CADR Airflow at 99.97% efficiency



The smartest

Intelligent control adapts based on conditions



The easiest

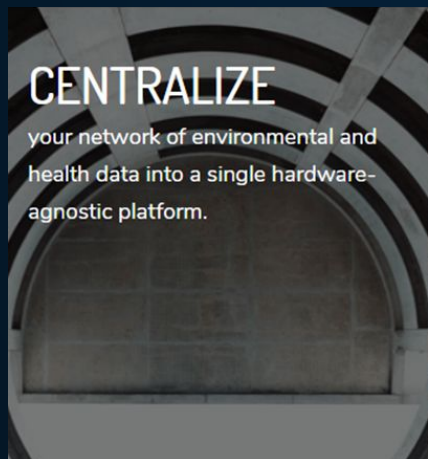
Cloud connected for simple management

The professionals' choice for creating safer environments
OVER 10,000,000 Sqft OF COMMERCIAL FACILITIES
COVERED BY PURE-QI SYSTEMS

Advanced Air Quality Control

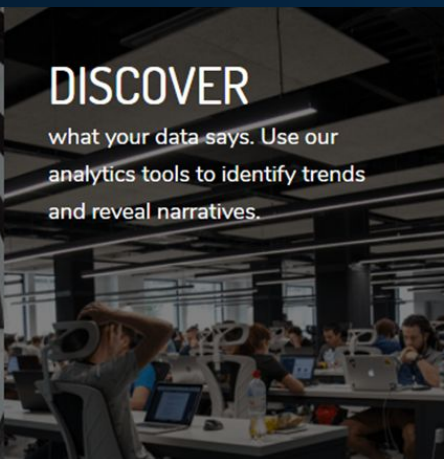
ActiveBuildings analytics platform provides an easy way to manage your building's environmental data.

As an integrated indoor environmental quality (IEQ) management system, data is collected, organized, and analyzed in real-time from air quality, electricity, and other readily available data sources



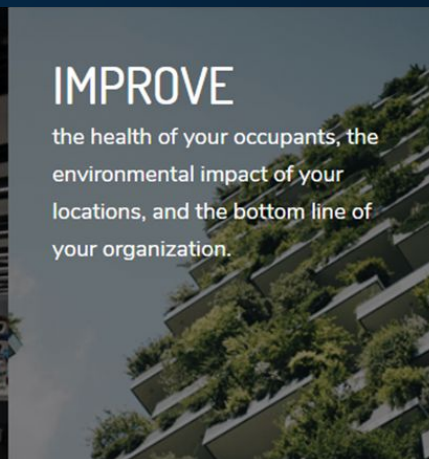
CENTRALIZE

your network of environmental and health data into a single hardware-agnostic platform.



DISCOVER

what your data says. Use our analytics tools to identify trends and reveal narratives.



IMPROVE


the health of your occupants, the environmental impact of your locations, and the bottom line of your organization.




COVID Infection Potential Index for FMs

UFC Gym is able to manage and communicate COVID-related risk

AIR QUALITY

PM 2.5
 **2 $\mu\text{g}/\text{m}^3$**

TVOC
 **0.15 mg/m^3**

CO₂
 **461 ppm**

Relative Humidity
 **45% RH**

Temperature
 **24 °C**

INDEX DETAIL

Virus Survivability
via relative humidity **18%**

Immune System Health
via relative humidity **83%**

CADR
Filtration **830 CMH**
99.97%

Reset Index for Airborne Infection Potential

UFC GYM

98%
Excellent

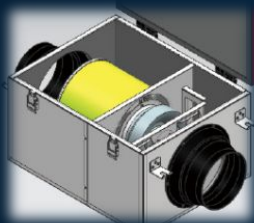
Last updated 5 minutes ago
09:00 PM



CREATE PERFECT MEETING ROOMS

Low cost and take control of your space

Pure-Qi Ventmate™ —The unit quietly and automatically delivers lower CO₂ air into the meeting room when the meeting room CO₂ exceeds a user-designated setpoint

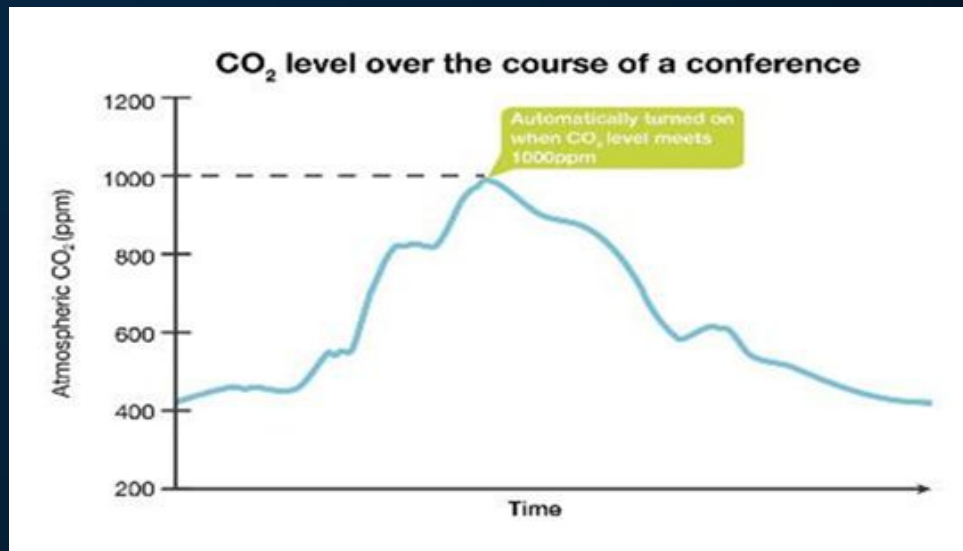


Features:

- On-demand operation via CO₂ controller
- Thermal comfort balancing
- Validated noise control (below 40db), avoid sound penetration
- HEPA filtration and positive pressure, PM_{2.5} <5ug/m³
- Anti-virus via true HEPA and optional ionization
- Odor and chemical reduction through optional carbon filter
- Lower-cost and easier solution than upgrading base building

Ventmate

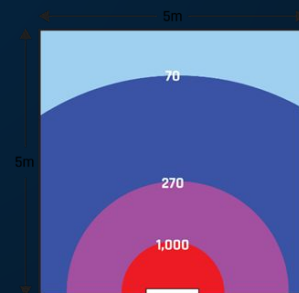
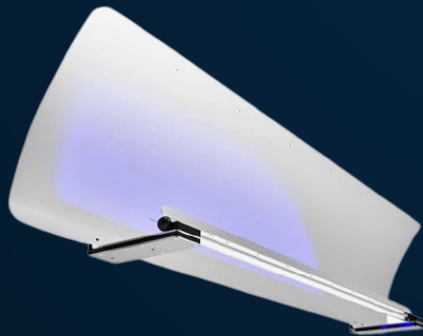
7 out of 10 companies* now provide a "CO₂ Controlled" environment to their staff



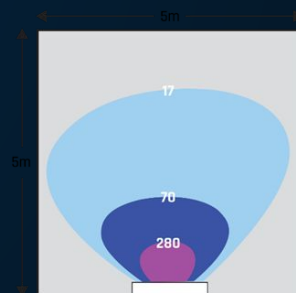
reflectair URSA

URSA by Reflectair - First Upper-Room UVGI Projector

- Developed in partnership between PureLiving and Reflectair
- Patented upper air UVGI system that can sterilize air three times faster than competitors
- Superior efficiency achieved via precise optical design (without louvers): parabolic reflector with a thin 254nm low pressure mercury tube placed at the focal line of the mirror below the path of the reflected parallel beams



URSA by ReflectAir



Competitor Device



PLUG-N-PLAY SYSTEMS

1. Quick installation and ease of access by Building Managers and individuals
2. Unique state of the art technology
3. Proprietary analytics with real time data
4. Ease of integration with FMs

NOTABLE SUCCESS STORIES

CSMVS MUSEUM, MUMBAI

AREA COVERED: 155K sq. ft.
INSTALLATION TIME: 6 hours
IAQ IMPROVEMENT: 84%
PROBLEM SOLVED: Artefact Conservation from Humidity and Air Pollution

CBRE HQ, GURUGRAM

AREA COVERED: 25K sq. ft.
INSTALLATION TIME: 3 hours
IAQ IMPROVEMENT: 98.1%
PROBLEM SOLVED: Adequate Ventilation and reducing PM2.5 levels

JLL HQ, MUMBAI

AREA COVERED: 27K sq. ft.
INSTALLATION TIME: 2 hours
IAQ IMPROVEMENT: 97.80%
PROBLEM SOLVED: Adequate ventilation levels

WORLD SPA, GURUGRAM

AREA COVERED: 75K sq. ft.
INSTALLATION TIME: 5 hours
IAQ IMPROVEMENT: 99.50%
PROBLEM SOLVED: Reducing PM 10 and PM 2.5 levels. Improve energy bills

INDIAN SUPER LEAGUE, GOA

AREA COVERED: 215K sq. ft.
INSTALLATION TIME: 8 hours
IAQ IMPROVEMENT: 99.90%
PROBLEM SOLVED: Reduce PM2.5 levels, adequate ventilation, restrict airborne transmission of COVID

MUMBAI INDIANS

AREA COVERED: 267K sq. ft.
INSTALLATION TIME: 8 hours
IAQ IMPROVEMENT: 99.90%
PROBLEM SOLVED: Reduce PM2.5 levels, adequate ventilation, restrict airborne transmission of COVID

CLIENTS

CBRE



IBM



SCHWARZMAN
SCHOLARS
清华大学苏世民学者项目



THE BRITISH SCHOOL
OF BEIJING



Concordia
INTERNATIONAL SCHOOL SHANGHAI
上海协和国际学校



EXPERIENCE OF WORKING WITH





Healthy People = Healthy Buildings

Invest in people, not buildings.

Get more value for your real estate

Your property can stand out in the competitive market



ActiveBuildings

THANKS!

Does anyone have questions?

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