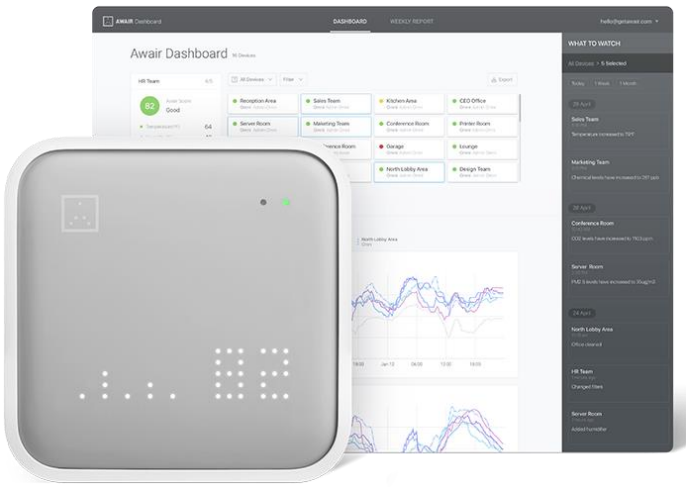
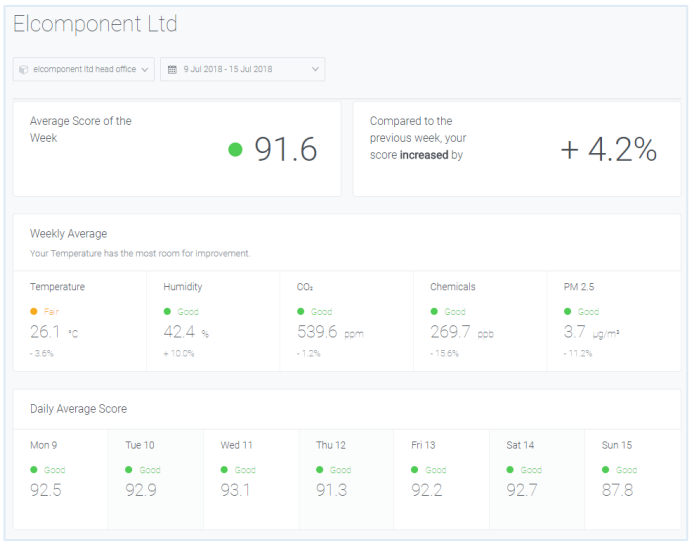
Air Quality Monitor & Dashboard - Awair

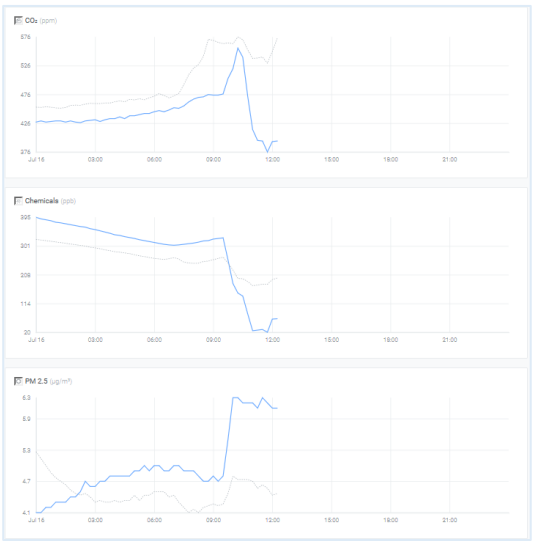
Elcomponent AQ Essentials - powered by Awair

Do you know what's in the air you're breathing?
Indoor air can be 5x more polluted than outdoors, impacting productivity, allergies, asthma, and overall wellness.



Elcomponent Awair (Omni) tracks toxins and chemicals in your air and lets you know the moment your air quality is unsafe or unhealthy. Sensors identify the five key factors that determine your air quality: chemicals, dust, carbon dioxide, humidity, and temperature. Elcomponent equips you with the tools to know and control your air so you can provide a happy, healthy, and safe environment. Here you will find an in-depth look into how the Awair Omni operates to help you achieve your organisation's goals.





If you would like to discuss how we can help your organisation further, please do not hesitate to contact us
sales@elcomponent.co.uk

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The Financial Benefits of Air Quality Monitoring

Maintaining workplace indoor air quality can have measurable benefits. Elcomponent can help you improve employee wellness, productivity, and your bottom line

Increase Profits

Save up to £11,500 per employee per year.
A 2015 joint study between Harvard T.H. Chan School of Public Health and United Technologies Climate, Controls & Security found a strong correlation between air quality and productivity. The study tested employee performance in environments with "healthy" and "unhealthy" air. In healthy air conditions, the results yielded performance improvements valued up to £11,500 in additional revenue per employee per year.

Improve performance

Employee productivity and cognitive ability can increase by up to 50% for both open and closed floor plans.

A Harvard T.H. Chan School of Public Health study showed offices that decreased their carbon dioxide levels from typical office conditions of 1,400 ppm to Awair Recommended Levels had a 50% increase in cognitive function scores on tests

Boost building efficiency

Achieve up to 79% HVAC energy savings through indoor air quality best-practices, such as improved ventilation
Many offices unknowingly use air condition when outdoor ventilation is sufficient—Omni can help determine when mixed-mode and natural ventilation methods can be substituted, saving up 79% is energy costs, according to **The World Green Building Council**

Increase employee attendance

Lower absence rates by 35% by maintaining a healthy and safe environment

The World Green Building Council found that workplaces with healthy indoor air experience 35% fewer absences from short term sick leave, and suggest maintaining carbon dioxide within the Awair Recommended Levels to ensure adequate ventilation

Additional Benefits

- Foster productive and effective meetings in conference rooms.
- Compete for top talent by offering a robust employee wellness package.
- Create customized environments to meet employee needs.
- Increase employee trust and assurance by leveraging advanced health technology.
- Reduce the impacts of cold and flu season by maintaining an optimal environment for health

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Sensors and Measurements

Temperature

The temperature index is designed to help you maximize occupant comfort and productivity. Index 1, the optimal index, spans a range of 22-26°C (71.6-78.8°F). An indoor temperature either above or below this range will bring the reading into a higher index and decrease Omni's Awair Score.

Relative Humidity

Humidity has a significant impact on comfort, respiratory health, and productivity. Humidity levels between 40-50% are considered optimal. This range is recommended especially for those with allergies, asthma, or other respiratory illnesses. Maintaining humidity within these levels can also minimize the growth and spread of mould, viruses, and bacteria.

Carbon Dioxide

Carbon dioxide (CO2) is an important consideration when it comes to comfort and productivity. Air with high levels of CO2 can lead to difficulty concentrating, decreased cognitive ability, and fatigue. Typically, CO2 levels outdoors are around 400 parts per million (ppm), thus the lowest level achievable indoors is around 400 ppm. Concentrations below 600 ppm are considered ideal for a healthy and productive workspace.

Chemicals

Volatile Organic Compounds (VOCs) are a diverse group of chemicals that are commonly found in the air in homes and offices. They are both naturally occurring and manmade. VOCs can be found in most manufactured goods as well as common cleaners, paint, upholstery, sealants, and pressed wood. Unlike other chemicals in the air, VOCs are generally measured as a cohesive group because of their cumulative effect on health and comfort. VOCs can have a wide range of health effects. Moderate levels of exposure can cause headaches, fatigue, allergic skin reactions, eye and throat irritation, and other symptoms that can affect comfort, concentration, and productivity. Higher concentrations have been associated with more severe health consequences such as cognitive impairment, overworked liver and kidneys, and even cancer. It's important to try to minimize the amount of VOCs in your environment and maintain levels under 65 parts per billion (ppb)

Particulates (dust)

There are two primary classifications of particulate matter: PM2.5 and PM10. PM2.5 is any particulate matter that is 2.5 microns or smaller, while PM10 is any particulate matter that is 10 microns or smaller. Dust is a primary trigger for allergy and asthma attacks, as well as eczema flare-ups. It can also worsen the symptoms of chronic and acute bronchitis. Particles that are 2.5 microns in width are able to permeate membranous tissue and travel deep into the respiratory tract and bloodstream, causing short-term irritation and potential long-term health effects, including respiratory problems, heart disease, and cancer. Alternatively, particles that are 10 microns in width primarily irritate the upper respiratory tract, aggravating allergies and asthma, and cause other health concerns. While both PM2.5 and PM10 have a negative impact on your health, PM2.5 can stay suspended in the air for a much longer period and can cause more severe health effects in the long-term. Minimizing dust is essential for healthy air quality; try to maintain dust levels below 15 micrograms per cubic meter (µg/m3). Omni monitors PM2.5.

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Accessing Your Data

Local Display

Omni shows real-time air quality data on the LED display. Omni's 7 display options allow you to see your air quality at a glance. The display modes are:

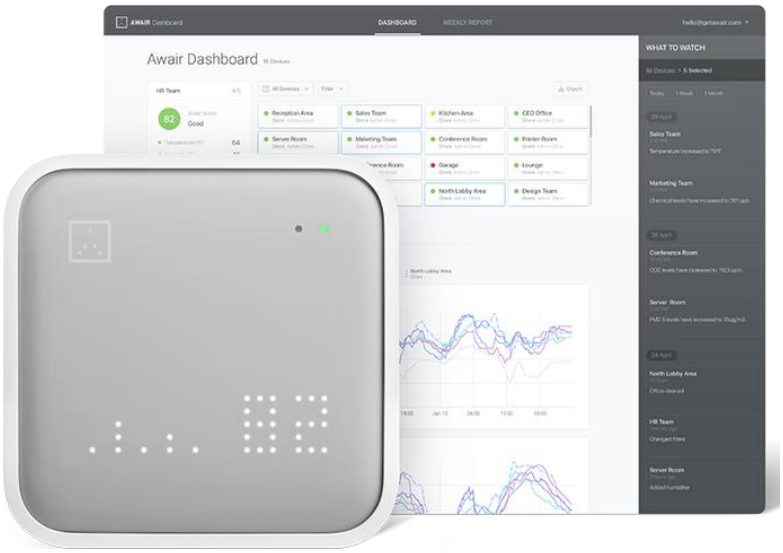
- Awair Score
- Temperature
- Relative Humidity
- CO2
- VOCs
- PM2.5
- No Display

The "No Display" mode allows you to disable any information presented on Omni. Display modes are selectable via the device Settings in the Awair app. You can also swipe on the right edge of Omni's display to change the display mode, or press the Power Button to automatically cycle through Omni's real-time sensor readings.

Dashboard

Understand the health of your organisation at a glance

The dashboard's color-coded Awair Status Indicator allows you to understand the real-time status of each of your Omnis at a glance. You can use the dashboard to compare air quality readings across multiple Omnis to understand trends and source potential problems. The Awair Dashboard also allows you to view historical data to help you understand how your air quality changes over time.



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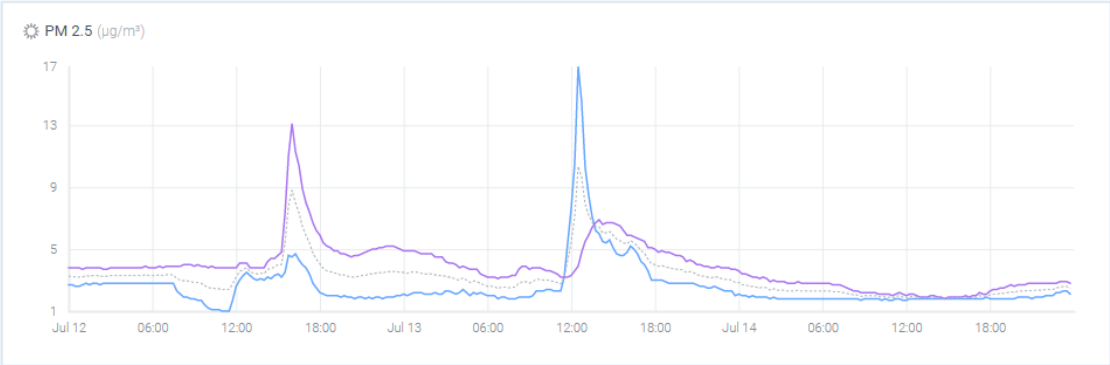
Easily manage your Omnis through Group and Filter settings

Categorize your Omnis by location, client, and more by assigning them to a group. The dashboard's grouping privacy features allow you to invite clients to view their own data on the dashboard without it being shared with any other clients you may have. The Filter tab allows you to filter each Omni by "Good," "Fair," "Poor," and "Disconnected" to easily diagnose any issues with your air quality

Easily download your current and historical data as a .csv file

Download historical data for multiple Omnis at once with the Data Export feature so you can maintain records and concentration readings for certification requirements. Choose a specific timeline or use one of the presets - Past Day, Past Week, or Past Month - to download your records as a csv file.

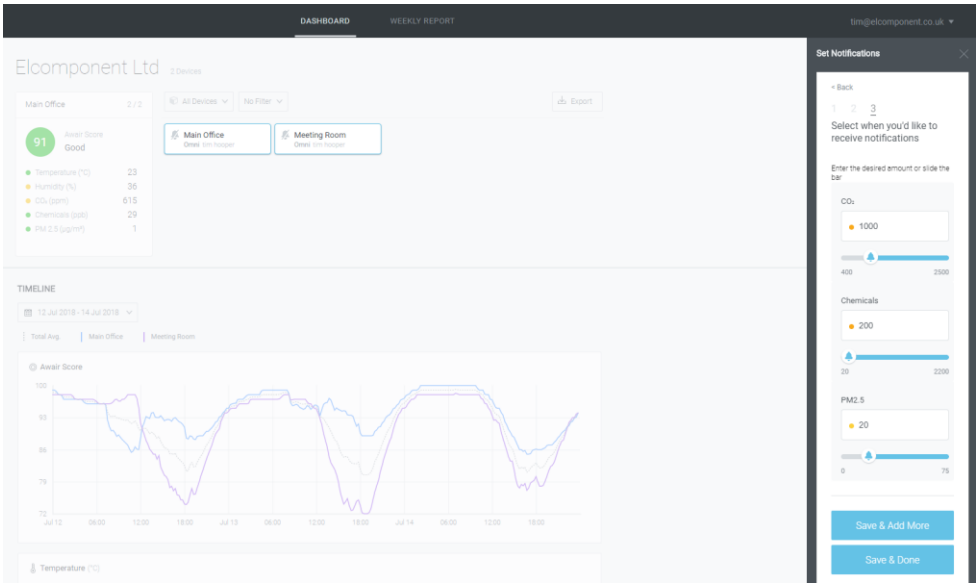


Track what impacts your environment

Annotate your trend lines within the dashboard to understand what influences your air quality, find the source of air quality problems, and track your improvements over time.

Receive alerts when your air quality needs attention

The Awair Dashboard can send notifications when your Omnis recognise issues with your air. Enable notifications for all Omni sensors relevant to your goals, and we'll notify you if you air needs attention via email and through the notification panel in the dashboard.



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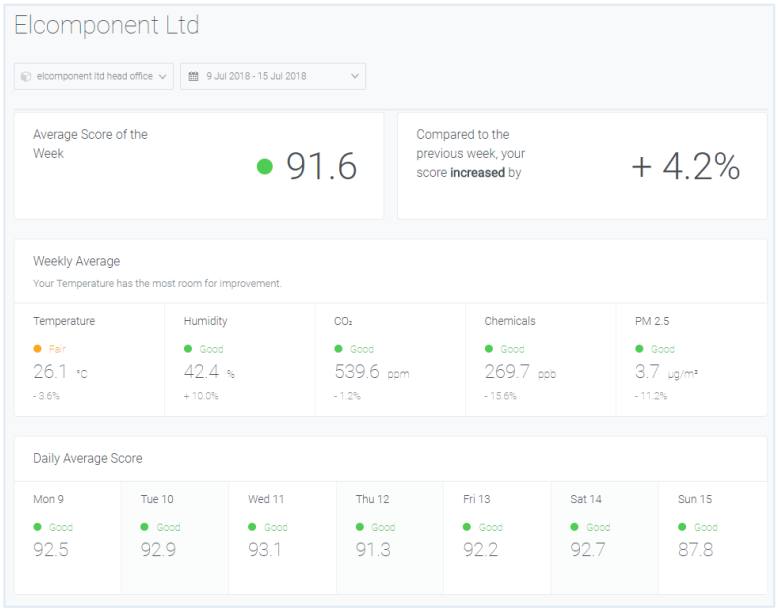
Receive a Weekly Assessment of Your Organisation's Air Quality

Awair will send you a Weekly Report outlining your air quality status from the previous week as well as an analysis on where there is room for improvement

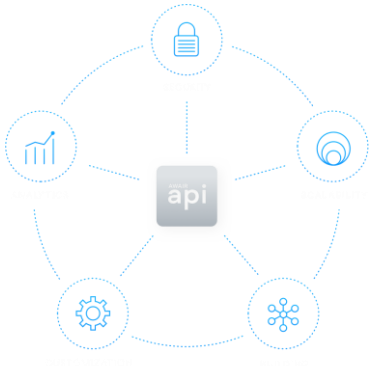


Mobile App

The Elcomponent Awair app allows you to check on your Awair score, air quality indices, and recent historical graphs at any time, from anywhere. It also allows you to control and receive notifications, manage account and device settings, and set your preferences.

API

Awair's API allows you to import and utilize data from all Omnis in your organisation. The API allows you to pull each Omni's 10 second raw data, 5 minute average data, and 15 minute average data. You can use the API for:



- Building automation
- Creating real-time displays of office air quality for employees
- Creating room-by-room building management visualization
- Connecting to IoT devices and services
- Importing external data for enhanced analysis
- Automating messages to customers and clients
- Auto-populating reports