

How to choose a monitor?

Pure Living

Installing a high-quality air filtration system is only the first step to ensuring healthy indoor environments. To keep track of your system's performance and really understand the quality of your indoor space, you need a monitoring system which can track the healthiness of your environment.

Why do I need a monitor?

Monitors are critical for developing awareness of your indoor air quality (IAQ). Traditionally, facility managers or building owners had to commission long and in-depth audits with handheld particle counters to determine whether there was a problem. Today, efficient continuous monitors make it possible to quickly, inexpensively, and meaningfully depict the health performance of a space in real-time. Monitoring therefore allows you to demonstrate your results and commitment to healthy IAQ to clients, staff, and guests.

Using a monitor also allows for the automation of air filtration systems. Automation software powered by live readings can adapt filtration and ventilation system operation as needed, increasing the level of filtration on high pollution days and lowering it on clearer days. This ensures consistent performance, as well as saving money and reducing energy usage by up to 90%.

Finally, high-quality monitoring is also essential if you are hoping to gain green certification for your office or building.

Green Certifications: LEED, WELL, RESET

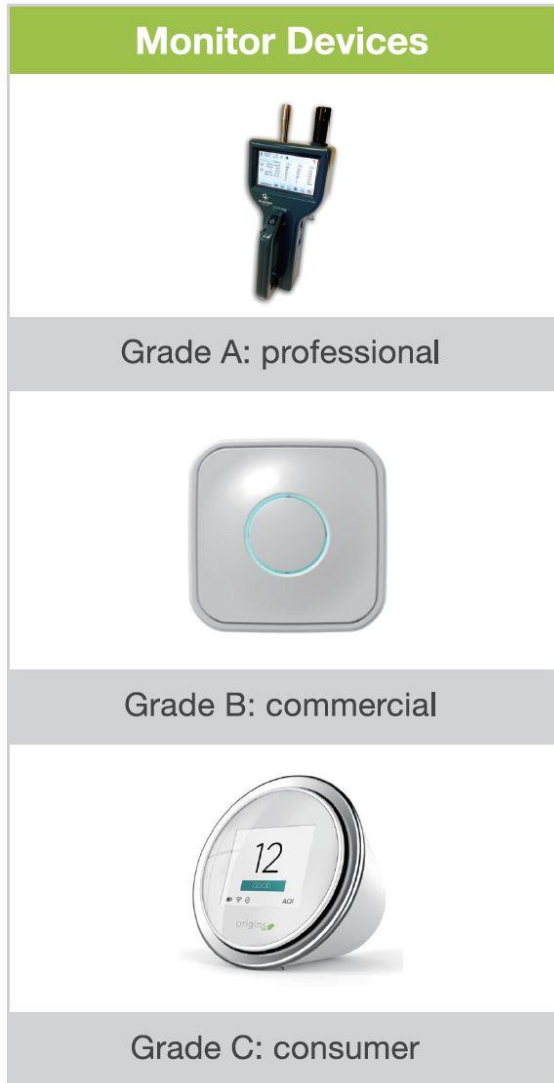


How do I choose a monitor?

Monitors come in all shapes, sizes, price ranges, and at vastly different levels of efficiency. Not all sensors are created equal, and it is important to understand your goals so you can choose the right monitor for you.

The most important parameters which are most important in monitoring your indoor air quality are PM, carbon dioxide, TVOCs (Total Volatile Organic Compounds), relative humidity and formaldehyde, so ensure your monitor covers these five points adequately.

Make sure you choose a monitor which has been previously performance tested either by you or by a reputable multi-brand dealer. Another source is healthy building standard RESET™, which certifies monitoring hardware and is a good place for identifying the difference between good and poor sensors. RESET™ monitors into three groups: A for calibration-grade, B for commercial-grade suitable for office locations, and C for consumer-grade.



Only Grades A and B are suitable for RESET certification and are recommended for professional monitoring. In one study of 30 Grade C monitors, there was a 100% accuracy failure.

When choosing a monitor, also consider the ability of the device to transmit data, which can be done via a number of methods including Wi-Fi, Bluetooth, and LAN. Deployment location, choice of communications protocols, and power supplies should also be carefully planned to ensure representative data is gathered by the monitor for analysis.



If in doubt, speak with an environmental consultant or IAQ expert, who will be able to recommend appropriate monitoring solutions based on their experience and expertise.