

Pyramid[▲]Eco

The Complete Guide to Ventilation in Sustainable Retrofits

Free eBook



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Introduction

Ventilation Solutions for Homes That Care for People and the Planet

Retrofitting homes isn't just about upgrading buildings—it's about improving lives and building stronger communities. Ventilation plays a critical role in this transformation, making energy-efficient homes safer, healthier and more comfortable for residents.

With people in Europe spending 80-90% of their time indoors, the quality of the air inside our homes matters more than ever. Poor indoor air quality is linked to serious health risks, contributing to around 99,000 deaths annually across Europe due to conditions like respiratory and cardiovascular diseases. Thoughtful ventilation solutions in retrofitted homes can help tackle these challenges, supporting healthier, thriving communities.

In the UK, the introduction of Awaab's Law has brought this issue into sharper focus. Landlords are now legally required to act quickly on hazards such as damp and mould, making effective ventilation a key part of providing safe and compliant housing.

This guide is designed to help housing providers make informed decisions about ventilation, based on Pyramid Eco's experience over more than a decade working in retrofit and ventilation. From managing moisture to enhancing air quality, it offers practical tips and expert insight from our team to help you balance energy efficiency with resident well-being.

A recent example *highlighted by the BBC* of a poorly insulated home where proper attention to ventilation was missing highlights the danger of installers and housing providers doing 'half a job'.



This is an outcome that no installer, housing association or landlord wants to be responsible for. Insulating Britain's homes is vital, but it can exacerbate existing moisture issues if ventilation is not considered from the outset.

Focusing on ventilation means creating spaces that promote health and comfort for residents while addressing long-term sustainability goals. It's about improving quality of life and strengthening communities for generations to come.





Understanding Ventilation Basics

Ventilation plays a critical role in creating a healthy and comfortable living space. While insulation improves energy efficiency, it can trap moisture and pollutants, leading to poor air quality and potential damage. A well-thought-out ventilation system balances energy savings with fresh, breathable air, benefiting residents and the building.



Why Ventilation Matters



1

Removes Moisture and Pollutants

Tightly insulated homes hold in heat but also trap moisture and pollutants from cooking, bathing and other daily activities. This buildup can lead to discomfort, allergies or respiratory issues. Ventilation keeps the air fresh by removing these pollutants.



2 Prevents Mould and Damp

Condensation on walls creates an ideal environment for mould, which can damage surfaces and harm health. In England, **up to 6.5 million homes** are affected by dampness and mould, costing the NHS an estimated **£0.9 billion annually** to treat related illnesses. Ventilation helps control moisture, reducing the risk of dampness and mould while promoting healthier living spaces.

3 Improves Indoor Air Quality (IAQ)

Good IAQ is essential for health, comfort and productivity. Ventilation removes contaminants like carbon dioxide (CO₂) and volatile organic compounds (VOCs), keeping the air fresh and reducing the risk of stale, unhealthy environments. Studies show that improved air quality can **boost cognitive performance by up to 9%**, while poor ventilation is associated with lower productivity and focus. Proper ventilation transforms living spaces into healthier environments.



4

Protects Building Materials

Excess moisture damages structural components like wood and insulation, causing rot and decay. Ventilation systems control humidity, extending the lifespan of retrofitted features and avoiding costly repairs.



Key Principles of Ventilation

1

Airflow Paths

Fresh air needs to circulate freely throughout the home, moving out stale air and pollutants. In tightly sealed spaces, planned airflow paths prevent stagnant air pockets.

2

Door Undercuts

Small gaps (around 10mm) under internal doors enable airflow between rooms, which is especially important in high-moisture areas like kitchens and bathrooms. These gaps ensure balanced ventilation even with doors closed.

3

Continuous Ventilation

Continuous ventilation systems, like mechanical extractor fans, maintain steady air exchange. Unlike intermittent systems, they offer consistent IAQ, reducing pollutant buildup and stabilising indoor temperatures.

4

System Capacity

Ventilation systems must be robust enough to handle the demands of a fully occupied home. Operating at 150% of minimum requirements ensures optimal performance during activities like cooking or hosting, maintaining air quality without excessive energy use.





Key Takeaways



Retrofitted homes need proper ventilation to balance energy efficiency with fresh air.



Small changes, like adding door undercuts or using continuous systems, can have a big impact.



Investing in effective ventilation creates healthier, more durable homes for residents and the environment.



Ventilation controls moisture, reduces mould and prevents pollutants from building up.



A well-planned system supports resident comfort and the home's longevity.





How Retrofit Choices Affect Ventilation

Energy-saving retrofits are essential for making homes more efficient and sustainable. However, each retrofit impacts air movement and ventilation in unique ways. Without proper planning, these upgrades can trap moisture and pollutants, leading to indoor air quality (IAQ) issues.



Common Retrofit Measures



1

Solid Wall Insulation

Insulating solid walls can reduce heat loss and lower energy bills by up to 30% in some of the UK's eight million solid-walled homes. But these upgrades can also limit natural airflow, which can lead to moisture and pollutant buildup. High-occupancy homes are particularly vulnerable to dampness and mould without adequate ventilation.

To prevent dampness and mould, pair solid wall insulation with balanced ventilation systems, such as mechanical ventilation with heat recovery (MVHR) or continuous mechanical extract ventilation (MEV). These systems maintain fresh air circulation while removing excess moisture.



2 Cavity Wall Insulation

Filling the gap between cavity walls improves energy efficiency but reduces the natural air movement these spaces once provided. This can lead to condensation, particularly during colder months. Installing extractor fans in high-moisture areas, like kitchens and bathrooms, helps manage humidity levels. For a whole-house approach, consider demand-controlled ventilation (DCV) to adjust airflow based on real-time conditions.

3 Loft Insulation

Insulating loft spaces minimises heat loss through the roof but reduces air circulation in upper areas. When paired with sealed lower levels, it can cause moisture to collect in the roof space. Adding roof vents or ensuring existing ones remain unobstructed helps maintain air circulation in the loft space. For more comprehensive control, integrate the loft's ventilation with a whole-house system like MVHR to balance airflow throughout the property.

4

Air Tightness Work

Sealing gaps around doors, windows and floors is a key step in reducing drafts and boosting energy efficiency. However, it restricts natural airflow, making advanced systems like mechanical ventilation with heat recovery (MVHR) crucial for maintaining IAQ.

5

Heat Pumps

Heat pumps efficiently heat or cool spaces by transferring external heat, performing best in insulated, airtight homes. However, they don't provide airflow and can increase indoor humidity. Pairing heat pumps with a ventilation system, like DCV or MVHR, helps control humidity levels and maintains a healthy indoor environment, preventing issues like condensation or mould.





Key Considerations

1

Enhanced Insulation Needs Enhanced Ventilation

Insulated homes naturally retain more heat but also trap moisture from daily activities like cooking and showering. Without proper ventilation, this moisture leads to condensation and mould. Systems like continuous mechanical extract ventilation (MEV) or MVHR bring in fresh air while removing stale, humid air.

2

Controlled Ventilation in Airtight Homes

Airtight homes are great for energy efficiency but create enclosed environments where pollutants and humidity can accumulate. Advanced mechanical ventilation systems provide consistent airflow, filter contaminants and maintain good IAQ.

3

Plan Early for Ventilation

Ventilation should be a priority from the beginning of a retrofit project. Early integration avoids costly adjustments later and ensures insulation and ventilation work seamlessly together. Consider factors like occupancy and activity levels to tailor system capacity to the home's needs.



Key Takeaways



Every retrofit impacts ventilation differently, requiring tailored solutions for each upgrade.



Insulation reduces natural airflow, making ventilation essential to prevent mould and maintain IAQ.



Airtight homes benefit from advanced systems like MVHR to balance energy efficiency and fresh air.



Early ventilation planning ensures all retrofit measures work together, avoiding future costs.



Finding the Right Ventilation System for Your Homes

Choosing the right ventilation system is key to keeping retrofitted homes healthy and energy-efficient. The right system balances airflow, controls humidity and reduces indoor pollutants. Here's a guide to ventilation options and how to choose the best fit for your property.



Types of Ventilation Systems

1

Continuous Extract Fans

These fans run continuously at a low rate, removing moisture and stale air from high-humidity spaces like kitchens and bathrooms. Many include a "boost" mode for increased airflow when needed. Cost-effective and easy to install, they're ideal for targeting specific problem areas without requiring a whole-house system.

BEST FOR

Kitchens, bathrooms or utility rooms where localised ventilation is sufficient to control moisture and prevent mould.

2

Demand-Controlled Ventilation (DCV) Systems

DCV systems automatically adjust airflow based on real-time conditions such as humidity, CO₂ or occupancy. They increase ventilation only when necessary, saving energy while maintaining good IAQ. Perfect for homes with variable occupancy, they adapt to changing needs, like increased activity during gatherings or reduced airflow at night.

BEST FOR

Properties with fluctuating occupancy or a strong focus on energy savings.

3

Whole-House Ventilation Systems

Whole-house systems provide consistent airflow throughout the property. Mechanical ventilation with heat recovery (MVHR) systems are especially effective in airtight properties, filtering fresh air while reusing heat from outgoing air. This boosts energy efficiency and can cut heating costs by around 25%, making MVHR a practical and sustainable choice for modern retrofits.

BEST FOR

Well-insulated or airtight properties where balanced, continuous ventilation is essential. MVHR is ideal for high-performance retrofits like [*Passivhaus*](#).



4

Smart-Enabled Systems

Equipped with sensors for humidity, CO₂ and volatile organic compounds (VOCs), smart systems adjust ventilation automatically for optimal IAQ. Connected mobile apps provide real-time data and control from anywhere, empowering residents and housing providers.

BEST FOR

Multi-unit buildings where centralised monitoring and remote adjustments improve IAQ and energy efficiency.



Choosing the Right Solution

Each property has unique characteristics, so selecting the right ventilation system requires careful planning based on the building's structure, usage patterns and potential for future needs.



1

Property Type

Different building designs benefit from different systems. Older homes with architectural constraints may work best with localised solutions like extractor fans. Newer or retrofitted airtight homes benefit more from whole-house systems like MVHR, which integrate seamlessly with modern construction.

2

Occupancy Needs

IAQ fluctuates based on how a home is used. DCV systems excel in properties with changing occupancy, adapting to high activity or quieter periods. For stable occupancy, continuous or whole-house systems maintain consistent air quality efficiently.

3

Future-Proofing

Ventilation systems should evolve with the home's needs. Whole-house and smart-enabled systems are easily scalable and adaptable, allowing upgrades like new sensors or increased capacity as requirements change.

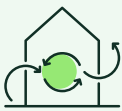
4

Control Accessibility

User-friendly controls encourage proper use. Mobile apps for smart systems and accessible panels for whole-house setups help residents easily manage airflow and IAQ. Simple, intuitive designs empower residents to take an active role in maintaining a healthy environment.



Key Takeaways



Continuous extract fans target specific problem areas, while whole-house systems provide consistent IAQ across rooms.



DCV systems adapt to real-time conditions, perfect for homes with fluctuating activity.



Smart systems offer advanced automation and remote control, ideal for proactive management.



Match the system to the property's structure, occupancy and future needs for long-term comfort and efficiency.



Key Design Considerations for Effective Ventilation

Well-designed ventilation systems are the backbone of healthy, comfortable retrofitted homes. Attention to key details during planning and installation ensures systems function effectively while maintaining energy efficiency and resident satisfaction.



Essential Design Elements



1

Proper Sizing

Ventilation systems need to match the property's unique demands. Undersized systems can't handle pollutants or moisture effectively, leading to condensation and poor IAQ. Oversized systems, meanwhile, waste energy and can be noisy. The right capacity is based on factors like the home's size, layout and occupancy. Following [guidelines like PAS 2035](#) helps get the sizing right for long-term performance.

2

Clear Air Paths

Unobstructed air movement is essential. Small features like door undercuts (around 10mm gaps beneath doors) and strategically placed vents help air circulate, keeping every room fresh. Ducts or transfer grilles can improve distribution and prevent stale, stagnant air for homes with multiple closed-off spaces.

3

Quiet Operation

In residential spaces, noise control is a priority. Low-noise solutions, like MVHR units, maintain peace and comfort. Always review noise specifications before installation, and if possible, test systems to ensure they meet [UK building regulations](#).

4

User-Friendly Controls

User-friendly controls empower residents to manage ventilation systems. Simple, clearly labelled buttons or panels make adjustments straightforward. For advanced systems, mobile app compatibility adds convenience, letting users tweak settings remotely.





Installation Checks



1

Verify Door Undercuts

A gap of around 10mm under doors helps air circulate between rooms, moving from living areas to extraction points like kitchens or bathrooms. Double-check undercuts during installation or, if they aren't possible, use transfer grilles to maintain airflow.

2 Check System Mounting

Ventilation units need proper mounting to avoid noise, vibration and safety concerns. Ensure systems are installed with the right hardware and that ducts are sealed to prevent leaks. Avoid placing units in areas like uninsulated attics, where temperature fluctuations can affect performance.

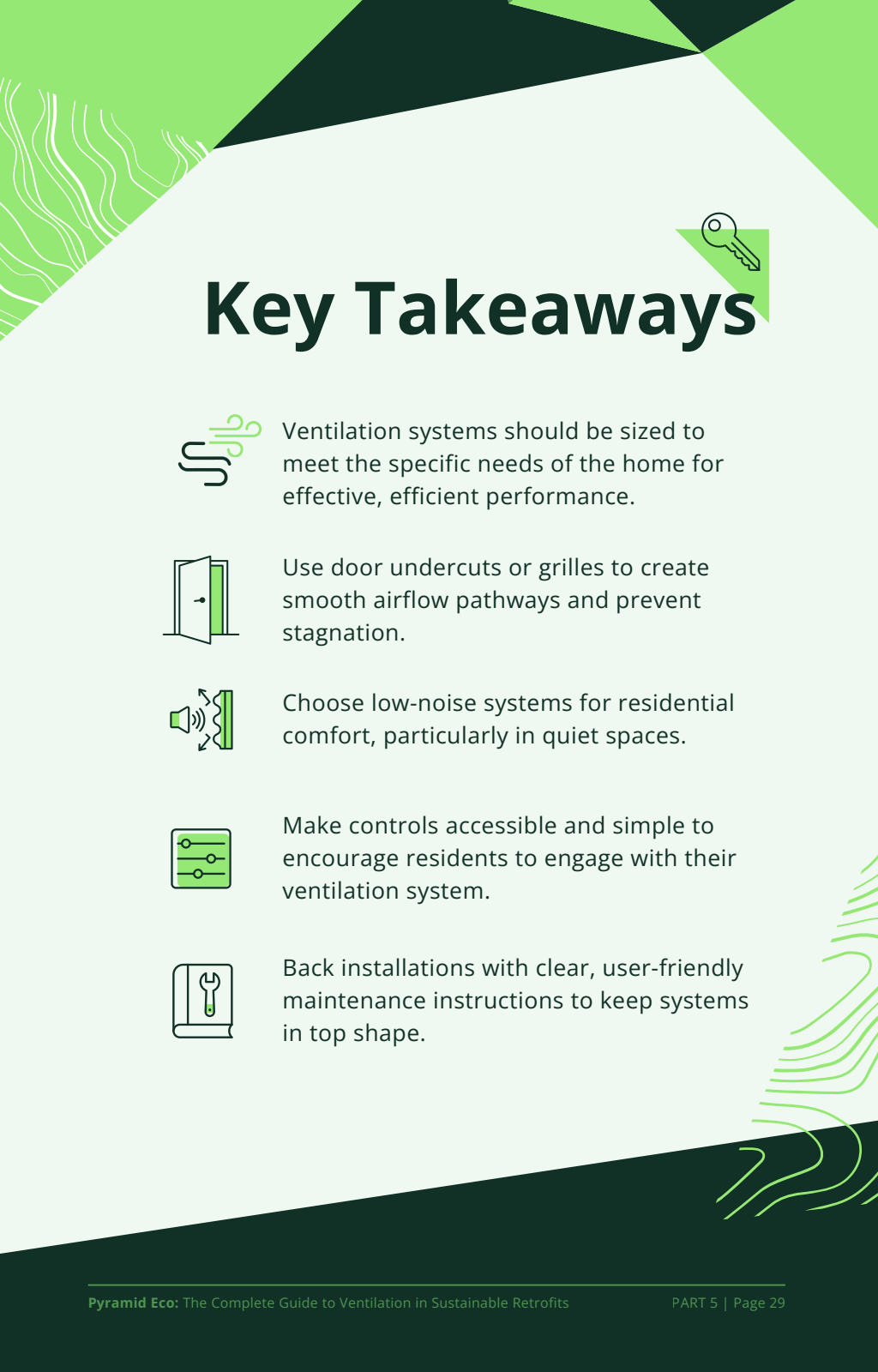
3 Accessible Controls

Position controls at a convenient height and in an accessible spot for all residents. This makes it easy to operate the system, whether the controls are manual or app-based. Clear, simple instructions should be provided to ensure residents feel confident managing the system.

4 Clear Instructions

Provide straightforward maintenance instructions for residents and maintenance teams. Include details on cleaning filters, troubleshooting common problems and scheduling regular checks. Add visuals or multilingual options to make the guidance even more accessible.





Key Takeaways



Ventilation systems should be sized to meet the specific needs of the home for effective, efficient performance.



Use door undercuts or grilles to create smooth airflow pathways and prevent stagnation.



Choose low-noise systems for residential comfort, particularly in quiet spaces.



Make controls accessible and simple to encourage residents to engage with their ventilation system.



Back installations with clear, user-friendly maintenance instructions to keep systems in top shape.



Indoor Air Quality (IAQ)

High IAQ keeps homes healthy, comfortable and safe by preventing issues like mould, allergens and respiratory concerns. Here's how housing providers can actively monitor and manage IAQ to ensure retrofitted homes remain as healthy as they are sustainable.



Key IAQ Metrics to Monitor



1

Temperature

Comfortable indoor temperatures are crucial for health and well-being. The World Health Organization (WHO) recommends a **minimum indoor temperature of 18°C**, with 20–21°C suggested for rooms used by older adults. Insulation helps retain heat but can create uneven warmth or cold spots. These can lead to condensation and mould. Balancing insulation with proper ventilation helps maintain a consistent, healthy indoor climate year-round.

2

Humidity

Too much moisture (above 60% humidity) can result in mould, while too little (below 30%) can cause dry air and discomfort. Both extremes pose health risks, like respiratory issues or increased susceptibility to infections. Keeping **humidity between 40–60%** with ventilation or humidifiers prevents these problems.

3

Air Quality (Pollutant Levels)

Indoor spaces can harbour pollutants like VOCs (from products and materials), CO₂ (from people) and CO (from fuel-burning appliances). Particulate matter (PM) from activities like cooking can also degrade air quality. Monitoring pollutant levels and addressing spikes keeps air clean, especially in airtight homes.

4

System Performance

Ventilation systems need to work efficiently to maintain IAQ. Monitoring fan speeds, filter conditions and duct cleanliness ensures systems can manage pollutants, control humidity and support balanced airflow. Regular maintenance prevents energy waste and prolongs system life.





Steps for Effective IAQ Management



Regular Checks

Routine inspections catch IAQ issues before they escalate. Quarterly checks for basic system functionality (e.g., filters) and seasonal or biannual checks for pollutants, humidity and temperature ensure air quality remains consistent. Consistent diagnostics help track IAQ changes and address minor concerns early.

1



Prompt Responses

When issues arise—like high humidity, pollutant spikes or underperforming systems—immediate action is key. Replacing filters, adjusting airflow or notifying residents of temporary solutions prevents bigger problems like mould or allergen buildup. Quick responses show a commitment to resident health.

2



Resident Communication

Educating residents on how IAQ systems work empowers them to contribute to good air quality. Sharing what to expect during inspections and being transparent about maintenance builds trust and encourages engagement.

3



Clear Reporting

Detailed records of IAQ metrics, system maintenance and resolved issues create a valuable knowledge base. Reporting helps track long-term IAQ trends, supports regulatory compliance and identifies opportunities for improvement in future retrofit projects.

4



Key Takeaways



Balance indoor temperatures to avoid condensation, mould and discomfort.



Maintain humidity between 40–60% to promote health and comfort.



Monitor pollutants like VOCs, CO₂ and particulate matter to keep air clean.



Regular system checks and quick responses to issues prevent long-term IAQ problems.



Engage residents with clear communication and maintain detailed records for improved management.



Awaab's Law:

Why Ventilation Is Now a Legal Priority

Since October 2025, Awaab's Law has required social landlords in England to act quickly on serious housing hazards such as damp and mould. For housing providers, this means ventilation is no longer optional. It is essential for compliance and resident safety.

The law was introduced after the death of two-year-old Awaab Ishak, who died in 2020 from mould exposure in a poorly ventilated social housing flat. His case prompted national reform and set a new legal standard for housing conditions.



What the Law Now Requires



Under Awaab's Law, social landlords in England are now legally required to:

1

Investigate significant hazards, such as damp and mould, within 10 working days of becoming aware.

2

Provide a written summary of the investigation's findings within three working days of its conclusion.

3

Begin safety works based on the level of hazard:

- Within five working days for significant hazards.
- Within 24 hours for emergency hazards.

4

If the home remains unsafe, the landlord must provide suitable alternative accommodation at their own expense.

Keep tenants informed throughout the process and provide clear guidance on how to stay safe.

These requirements are legal obligations. Failure to comply can lead to enforcement action, tenant complaints, and reputational harm.



Why Ventilation Is at the Heart of Compliance

Damp and mould do not arise from poor housekeeping. They are often the direct result of poor or missing ventilation, especially in newly insulated, airtight homes. In a retrofit context, failing to plan for ventilation can trap moisture and create unsafe conditions.

Under Awaab's Law, social landlords cannot blame tenants' "lifestyle choices" for condensation or mould. The law reinforces the need to address root causes, such as ineffective airflow and unmanaged humidity.





How Pyramid Eco Helps You Stay Compliant

1

Ventilation Risk Audits

We assess your existing homes, whether previously retrofitted or not, to identify ventilation risks and flag properties that may be vulnerable to mould, condensation, or non-compliance.

2

Bespoke System Design

From extractor fans to MVHR and demand-controlled systems, we design integrated solutions tailored to the building type, occupancy patterns, and insulation levels.

3

Smart Monitoring Tools

Our real-time monitoring systems track humidity, CO₂, VOCs, and temperature. This gives you actionable indoor air quality data and evidence to demonstrate compliance and address issues quickly.

4

Resident Education and Engagement

We help tenants understand how to use their ventilation systems properly and why it matters. This approach prevents misuse, reduces complaints, and promotes healthier, more comfortable living environments.



Working with Residents

For ventilation systems to truly make an impact, residents need to understand how they work and feel confident using them. Engaging residents as partners in maintaining indoor air quality (IAQ) can boost system effectiveness. With clear communication, practical guidance and ongoing support, residents can make the most of their ventilation systems and enjoy healthier, more comfortable homes.



Key Communication Principles



1

Transparency

Clear, honest information builds trust and encourages engagement. Share straightforward explanations about how ventilation works and why it's essential. Share maintenance schedules, explain system functions and outline any adjustments clearly to help residents feel informed and involved.

2

Health and Comfort Focus

Frame ventilation as a daily investment in health and comfort. Explain how it reduces allergens, balances humidity and regulates temperatures for a fresher, more enjoyable home environment. Highlighting these benefits helps residents see ventilation as a valuable part of their lifestyle.

3

Simple Usage Guidance

Simple, clear instructions empower residents to use their systems confidently. Break tasks like adjusting fans, cleaning filters or setting timers into easy steps. Quick-start guides, visuals or FAQs can simplify operations and build resident comfort with the system.

By far the most important piece of the resident engagement puzzle is ensuring that the people living in the property understand how to use their ventilation system. We've seen so many cases where residents turn off automatic extractor fans to 'save on electricity' bills without realising that the resulting mould issues are a direct consequence of this action.

Failing to allow proper ventilation while cooking (for example, using the built-in cooker hood) can cause issues as well, particularly if windows are never opened to let the moist air out.

4

Ongoing Support

Access to reliable support reassures residents and builds trust. Provide contact details for a dedicated team or a maintenance request platform. Consider offering workshops or video tutorials to keep residents informed and confident.





Important Messages to Convey



Health Benefits

Good IAQ reduces indoor pollutants like allergens, VOCs and excess moisture. Share how these systems promote better respiratory health, especially for children, seniors, and those with asthma or allergies.



Comfort Improvements

Effective ventilation eliminates stuffy air, balances humidity and prevents condensation on windows. Explain how it keeps the air feeling fresh and ensures a comfortable, pleasant living space throughout the day.



Easy System Use

Ventilation systems are designed for simplicity. Reassure residents that small, everyday actions—like using an extractor fan or adjusting airflow—can make a big difference. Let residents know that complex issues can be handled by maintenance, so they can feel confident using the system.



Help and Support

Remind residents that help is always just a call or message away. Encouraging them to reach out with questions or concerns builds trust and ensures they get the most out of their systems.

Key Takeaways



Transparent communication builds trust and fosters engagement.



Emphasising health and comfort makes ventilation benefits relatable and impactful.



Clear, simple guidance boosts confidence in daily system use.



Reliable support empowers residents to maintain a healthy, comfortable environment.

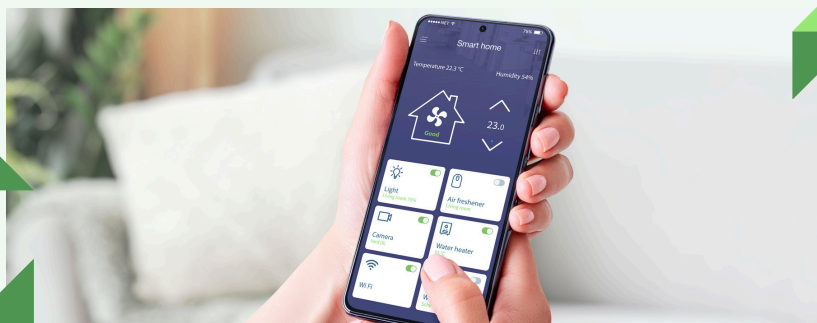


Smart Tools for Better Air Quality Management

Smart monitoring has transformed how we manage indoor air quality (IAQ) in retrofitted buildings. These modern tools use real-time data and automation to keep homes comfortable, safe and energy-efficient. Here's how smart monitoring can elevate IAQ management in retrofitted properties.



Smart Monitoring Solutions



1

Smart Thermostats

Smart thermostats balance comfort and efficiency by adjusting temperature and humidity in real time. These systems adapt to residents' preferences and work with ventilation systems to prevent overheating or excess moisture in well-insulated homes.

2

Humidity Monitors

Humidity monitors maintain moisture levels in the healthy range of 40–60%. They can activate dehumidifiers or adjust ventilation automatically to avoid condensation, mould and discomfort. Keeping humidity balanced protects both residents and the building itself.

3

Air Quality Sensors

Air quality sensors track pollutants like VOCs, CO₂ and particulate matter. When levels rise, they send alerts or automatically adjust ventilation to improve air quality. This level of precision is crucial in airtight homes, where pollutants can accumulate quickly.

4

Mobile Apps for Remote Access

Mobile apps give residents and housing providers remote control over IAQ. They provide real-time data and alerts, making it easy to manage air quality from anywhere. For property managers overseeing multiple units, remote monitoring ensures consistent IAQ across all homes.



Benefits of Smart Monitoring

1

Early Problem Detection

Real-time monitoring identifies IAQ issues like rising humidity, increased pollutants or temperature imbalances early. Prompt detection allows for immediate action, preventing bigger problems like mould, allergens or structural damage.

2

Healthier Environments

Maintaining ideal IAQ minimises allergens and respiratory irritants, creating healthier spaces for everyone, particularly residents with asthma or allergies. Cleaner air means greater comfort and well-being.

3

Energy Efficiency

Smart systems adapt to actual needs, reducing unnecessary energy use. For example, thermostats can lower heating in unused rooms or ramp up ventilation only when pollutant levels increase. This approach saves energy and reduces carbon emissions.

4

Long-Term Issue Prevention

Proactive monitoring helps prevent persistent issues like mould growth, moisture damage or poor air circulation. Housing providers benefit from fewer maintenance requests and improved tenant satisfaction, while residents enjoy peace of mind knowing their home environment is safe and well-maintained.



Key Takeaways



Smart tools like thermostats, sensors and humidity monitors offer precision and automation to manage IAQ effectively.



Real-time insights allow quick responses to air quality changes, improving health and comfort.



Energy-efficient adjustments reduce unnecessary power consumption while maintaining air quality.



Long-term monitoring protects properties from damage and residents from poor air conditions.

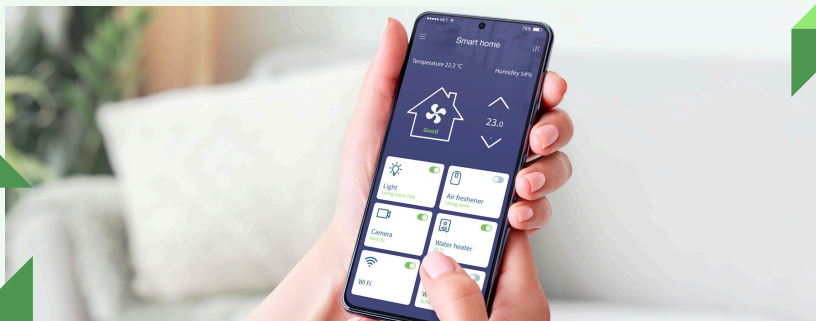


Proven Strategies for Success in Retrofit Projects

Thoughtful planning and careful attention to detail are key to successful retrofits. From designing effective systems to supporting residents, these best practices help create homes that are healthy and energy-efficient.



Guidelines for Success



1

Integrate Ventilation Early

Start planning ventilation at the very beginning of the retrofit. Early planning makes it easier to select the right system and coordinate seamlessly with insulation and airtightness improvements. This proactive approach avoids costly adjustments later and keeps projects aligned with IAQ and efficiency goals.

2

Correctly Size Systems

Getting the system size right is fundamental to effective ventilation. A system that's too small won't effectively remove pollutants or moisture, while an oversized one can lead to noise, inefficiency and higher costs. Consider the property's layout, occupancy levels and specific ventilation needs.

3

Accessible Controls

Intuitive, accessible controls empower residents to use their ventilation systems effectively. Simple options like fan speed adjustments or mobile app controls enable residents to manage IAQ to their comfort level. For full accessibility, place controls at a height and location that all residents can easily reach.

4

Provide Resident Guidance

Help residents understand their ventilation systems with straightforward instructions. When residents understand how to use their systems, air quality improves, and they experience greater comfort.

5

Monitor and Maintain Regularly

Regular monitoring and maintenance are essential to keep systems performing efficiently. Clean filters, inspect fan operations and address any developing issues to keep systems running efficiently. Regular maintenance can also prevent unexpected repair costs and extend the system's lifespan.

6

Prompt Issue Resolution

When problems like high humidity or system malfunctions arise, quick responses make all the difference. Establish a clear process for identifying and resolving issues promptly. Fast action protects residents' health and comfort while reinforcing trust.

7 Engage Residents

Keep residents informed at every stage of the retrofit. Share updates about system benefits, tips for maintaining IAQ and improvements achieved through the project. Establish open feedback channels to create shared responsibility and a positive resident relationship. Engaged residents are more likely to report issues, supporting smooth operation and effective maintenance.

8 Learn from Experience

Use each project as a learning opportunity. Collect feedback from residents, track system performance and review IAQ data to refine your retrofit strategies. Every project offers valuable insights that can inform future efforts, helping you deliver sustainable, high-quality housing that better meets community needs.





Partner with Pyramid Eco for Sustainable, Healthy Retrofits

Retrofitting homes is a meaningful step toward building healthier, more sustainable communities. Success depends on expert planning and a focus on residents' needs. With Pyramid Eco, you gain a trusted partner who provides advanced, sustainable ventilation solutions designed for your unique needs.

Our dedicated ventilation service works with housing associations and local authorities to carry out ventilation audits of existing properties (whether retrofitted or not) and puts together a plan to reduce moisture and mould.

And, of course, this ventilation planning is built into our retrofit projects from the start.



How Pyramid Eco Supports Your Projects



Tailored Ventilation Design

We create customised systems that support energy efficiency and resident comfort.



Comprehensive Planning

Our expert team integrates ventilation seamlessly into your retrofits, combining insulation, airtightness and IAQ strategies for cohesive results.



Resident-Focused Solutions

We provide clear resources, practical tools and ongoing guidance to help residents confidently manage and benefit from their ventilation systems.



Advanced Monitoring Technology

We install the latest Indoor Air Quality monitoring tools capable of providing real-time data on key air quality metrics. These systems empower landlords to identify and address potential issues, such as poor air quality or increased humidity, before they escalate into larger problems such as Mould.



Reliable Maintenance & Support

Pyramid Eco offers long-term service plans to keep systems performing optimally, ensuring lasting satisfaction and efficiency.



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