

Masterclass #2

Implementing a Ventilation Strategy

Ensuring Healthy, Comfortable Homes



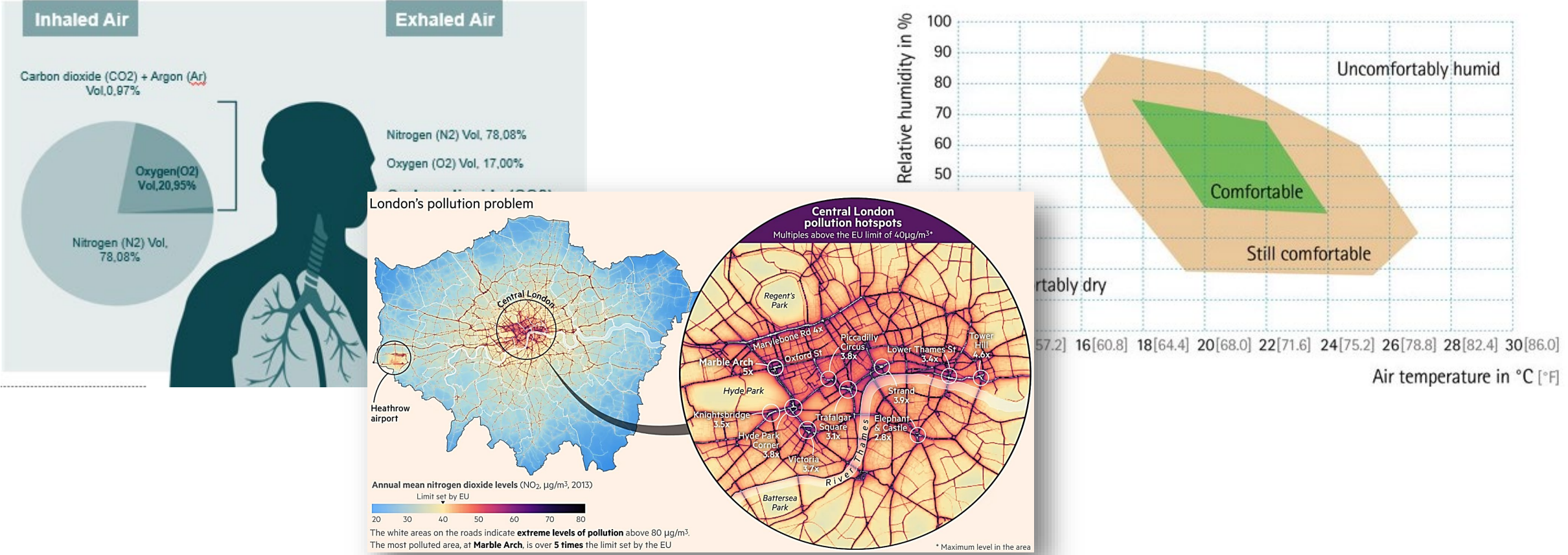
Welcome and introductions

Overview of CPD objectives and schedule



Importance of Ventilation

Summary of master class 1



Masterclass 2: Implementing a Ventilation Strategy

Contractors – NICEIC BPEC PASSIVHAUS INSTALLER COURSE

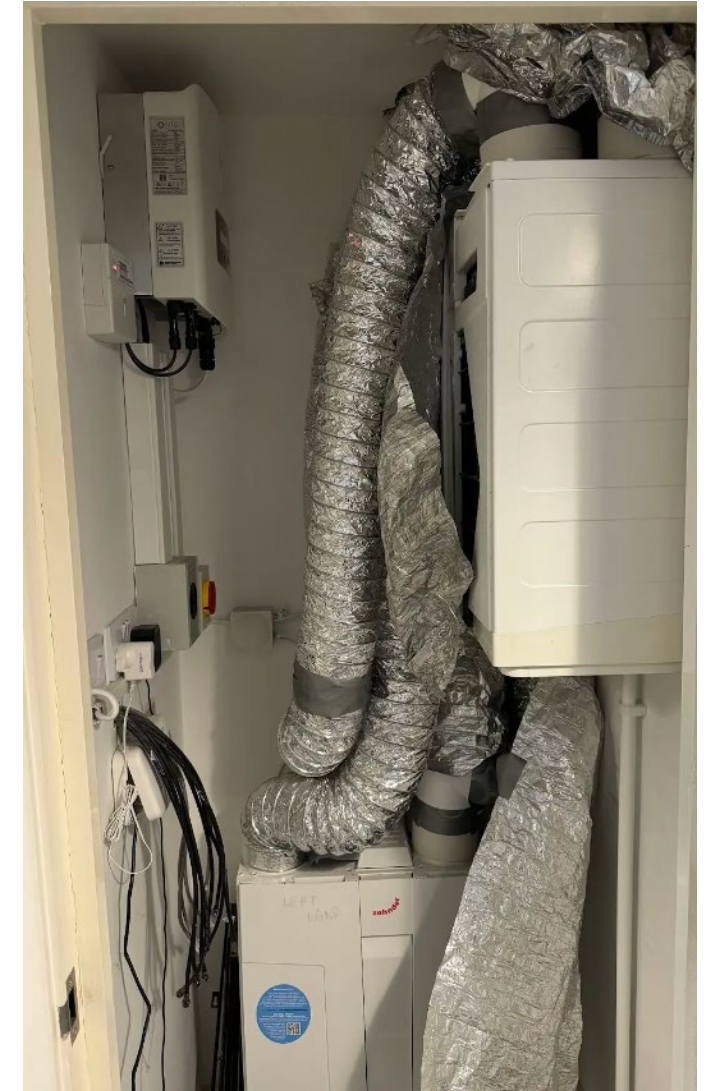
Inspection – Best Practice

Commissioning

Handover



Pre-Installation Checks



During Installation



Post-Installation Testing & Commissioning



Post-Installation Testing & Commissioning



Maintenance of Ventilation Systems



Maintenance of Ventilation Systems



Service	6-12 months	1-2 years	4 years	~10 years
Person	Occupant* or a professional engineer	Occupant* or a professional engineer	Engineer	Engineer
Filter changes in MVHR and in (kitchen) extract terminal	✓	✓	✓	✓
Cleaning of internal and external terminals	✓	✓	✓	✓
Inspection and cleaning of MVHR casing & controller	✓	✓	✓	✓
Check condensate drain & check for water ingress	✓	✓	✓	✓
Check the noise levels: is there an increase in noise?	✓	✓	✓	✓
Washing of heat exchange core		advisable	✓	✓
Clean sensors, pre-heater, bypass flap(s), fans & inside the MVHR unit		advisable	✓	✓
Firmware updates & component check		advisable	✓	✓
Measure power consumption			✓	✓
Check of air flow rates & poss. re-commissioning			✓	✓
Duct cleaning: check dust level in ducting & unit.			potentially**	✓
Report and hand over to occupant		✓	✓	✓



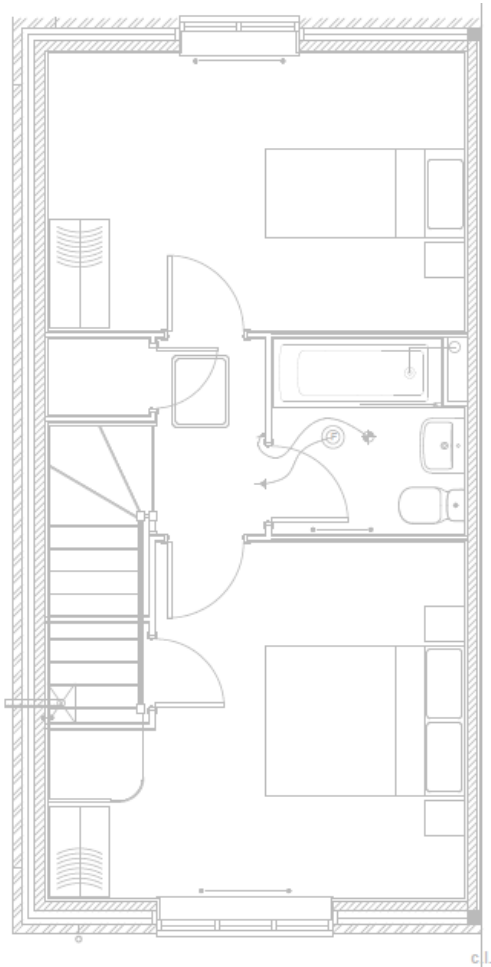
Maintenance of Ventilation Systems



Maintenance of Ventilation Systems – Filter Change

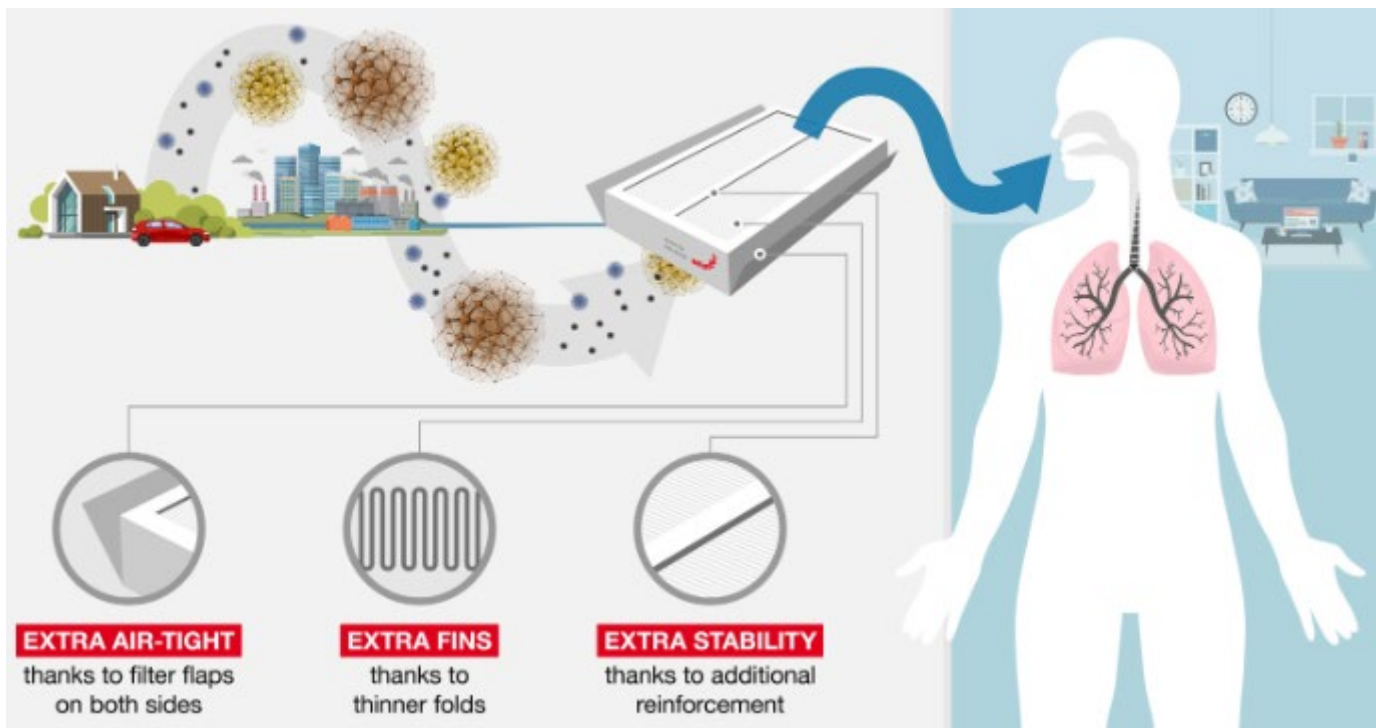


Understanding Standards vs. Real-World Use



Resident Engagement

Educational Campaigns: Materials and workshops
Communication Tools: Fact sheets, newsletters, digital platforms
Feedback Mechanisms: Reporting issues and providing feedback



This collage features several documents related to home ventilation:

- Home Energy Guide Template:** Includes an explanatory note for home builders and developers, stating that the guide provides guidance to approved documents F (Ventilation), G (Conservation of Fuel and Power), and O (Conservation of Water Resources) in England. It also mentions that the guide should be provided to the owner of a new home and that the information should be understandable by the occupants.
- Existing Home Ventilation Guide:** Contains sections on 'What do the Building Regulations require?' and 'How to use your ventilation?'. It discusses the importance of ventilation in older homes and provides instructions on how to ensure the ventilation system is working correctly.
- WELCOME to your healthier home:** A congratulatory card for homeowners who have installed a Mechanical Ventilation with Heat Recovery unit. It lists benefits such as decorative radiators, comfortable indoor ventilation, heating and cooling settings, and industrial air purification.



Behaviour changes

- 1. Avoid Drying Clothes Indoors
- 2. Ventilate Regularly
- 3. Maintain Cleanliness
- 4. Avoid Smoking Indoors
- 5. Use Natural Cleaning Products
- 6. Avoid Using Scented Products
- 7. Keep Houseplants
- 8. Ensure Proper Ventilation When Cooking / Washing
- 9. Reduce Use of Carpets and Rugs



Be on the lookout

1. Stale or Stuffy Air
2. Persistent Odors
3. Excess Humidity
4. Increased Energy Bills
5. Frequent Allergies or Respiratory Issues
6. Rust Stains / Peeling Paint



Collaboration



Case Study – what good looks like

Do we have the case study for Grand Designs from Elinor?

Summary

Key Points Recap:

- Importance of proper ventilation for health and building integrity.
- Maintenance practices for ventilation systems.
- Bridging the gap between standards and real-world use.
- Engaging residents and encouraging healthy ventilation habits.
- Collaborative efforts among teams to ensure effective implementation.

Next Steps (we'd suggest):

- Conduct regular inspections and maintenance of ventilation systems.
- Educate residents on the importance of ventilation and how to use it.
- Foster collaboration between asset management, repairs, and housing teams.
- Implement feedback mechanisms to continuously improve ventilation strategies



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