



HEAT RECOVERY VENTILATION SYSTEMS

Hi-Tech House, Unit 18,  
Claregalway Corporate Park,  
Claregalway,  
Co. Galway.

Tel 091 73 9442 Int ++ 353 91 73 9442

Web: [www.proair.ie](http://www.proair.ie)  
[www.proair-systems.co.uk](http://www.proair-systems.co.uk)  
Email: [proair@proair.ie](mailto:proair@proair.ie)

## HRV Training Course Notice

ProAir Systems will hold a training course in the Maldron Hotel Oranmore on 11<sup>th</sup> of November. It will focus on the installation of heat recovery ventilation systems, the concepts and the technology which go alongside. The instruction and guidance provided will be based on many years experience of designing, manufacturing, installing and commissioning of HRV systems. The first part of the course will address some of the science underpinning HRV. The focus will be on the relevant regulations and system design. The second part will highlight examples of best practices of installation and commissioning.

### Course objectives

To provide the course recipient with a basic understanding and appreciation of the following, as relevant to residential ventilation systems with heat recovery.

1. Correct utilisation of the terms used in the ventilation industry.
2. An overview of heat exchanger technology.
3. How to calculate air velocities given air flows and duct sizes.
4. System pressures and the consequences for efficiency.
5. Mould growth, its causes and prevention.
6. The hygroscopic properties of air as relevant to ventilation.
7. Efficiencies in fan and motor technologies.
8. How to design for comfort, in terms of airflow and air movement.
9. Design duct layouts which work, in a residential context.
10. Ventilation and acoustics.
11. Controls strategy for HRV.
12. Air purification and filtration.

The course will also help participants

- Gain an appreciation of the relevant building regulations and codes.
- Inspire a confidence to convey to others the benefits of such systems and hence provide sales assistance.

It will also include practical tips on installation, design and commissioning of systems in various types of applications.

## **Agenda**

- 9.45 Registration tea/coffee
- 10.00 Introduction /welcome
- 10.15 The science behind air
- 11.30 Basic building physics
- 12.15 Building regulations as applying to HRV
- 01.00 Lunch break
  
- 01.45 Ducting layout/Installation components
- 01.46 Ducting system and design
- 02.45 Commissioning / airflow balancing
- 03.00 Fan selection and performance analysis.
- 03.15 Controls
- 04.00 Indoor Air Quality (IAQ)
- 04.45 Recap
- 05.00 Close

**Fee** €100 per person.  
A 10% discount will apply to companies with 2 or more participants

## **Booking and**

**Further Details** Intending participants should contact ProAir Systems by either:

Email: [proair@proair.ie](mailto:proair@proair.ie)

Tel: 091 73 9442