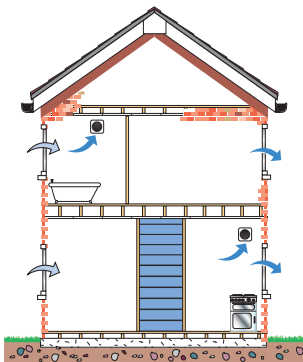


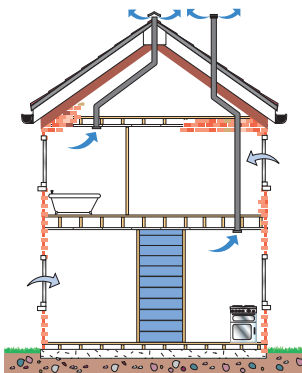
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Domestic Ventilation Systems

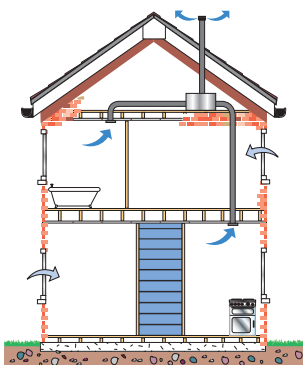
System Types



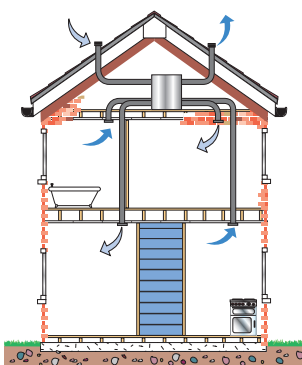
System 1:
Background ventilators and
intermittent extract fans



System 2:
Passive stack ventilation



System 3:
Continuous mechanical extract



System 4:
Continuous mechanical supply
and extract with heat recovery

For further information –

England & Wales

- Approved Document F (Ventilation)
- Domestic Ventilation Compliance Guide

Scotland

- Technical Handbook – Domestic 2015
- Building Standards Supporting Guidance Domestic Ventilation 2nd Edition

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New Dwellings

Table 1 Extract ventilation rates

Room	Intermittent extract	Continuous extract	Minimum low rate
	Minimum rate	Minimum high rate	
Kitchen	30 l/s adjacent to hob; or 60 l/s elsewhere	13 l/s	Total extract rate should be at least the whole dwelling ventilation rate given in Table 2
Utility room	30 l/s	8 l/s	
Bathroom	15 l/s	8 l/s	
Sanitary accommodation	6 l/s	6 l/s	

Table 2 Whole dwelling ventilation rates

Number of bedrooms in dwelling					
	1	2	3	4	5
Whole dwelling ventilation rate ^{a, b} (l/s)	13	17	21	25	29

Notes:

- a. In addition, the minimum ventilation rate should be not less than 0.3 l/s per m² of internal floor area. (This includes all floors, e.g. for a two-storey building add the ground and first floor areas.)
- b. This is based on two occupants in the main bedroom and a single occupant in all other bedrooms. This should be used as the default value. If a greater level of occupancy is expected add 4 l/s per occupant.

Notification of work

In most cases where it is proposed to carry out notifiable ventilation work on a building it will be necessary to notify the work to a BCB in advance. This notification would usually be by way of a full plans application or a building notice given to a local authority, or an initial notice given jointly with the approved inspector. Alternatively work can be notified through the NICEIC Ventilation Competent Persons Scheme.

All fixed mechanical ventilation systems, where they can be tested and adjusted, shall be commissioned and a commissioning notice given to the Building Control Body (BCB).

For mechanical ventilation systems installed in new dwellings, air low rates shall be measured on site and a notice given to the Building Control Body (BCB). This shall apply to intermittently-used extract fans and cooker hoods, as well as continuously running systems.

The owner shall be given sufficient information about the ventilation system and its maintenance requirements so that the ventilation system can be operated to provide adequate air flow.

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