

Building Compliance
Design & Testing

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ON-SITE

Ventilation Flow Rate Testing

Reference tables for extractor fans



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What do my fans have to achieve?

Fan reference	Intermittent Extract Minimum Rate	Continuous Extract Minimum Rate
Kitchen	30 l/s adjacent to hob 60 l/s elsewhere	13 l/s
Utility Room	30 l/s minimum value 24 l/s	8 l/s
Bathroom	15 l/s minimum value 12 l/s	8 l/s
Sanitary Accommodation	6 l/s minimum value 5 l/s	6 l/s

l/s = litres per second

Please note, a lot of fan manufacturers' stated extract rate (the amount of litres per second (l/s) they carry) is normally calculated at a distance of 300mm (the thickness of typical wall section), however the ducting on your extract fan may be longer than this and therefore have an increased air resistance.

Please also be aware that Building Regulations require the utility room to have a powerful fan of at least 30 l/s – in our experience this is the most common failure.





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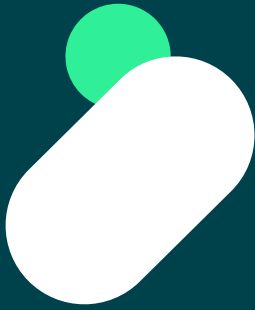
Additional notes

Axial fans are designed for simple installations and are generally suitable for wall or window mounting or with short (up to 1.5metre) duct runs and no more than two bends for flows of up to 30l/s and one bend for over 30l/s.

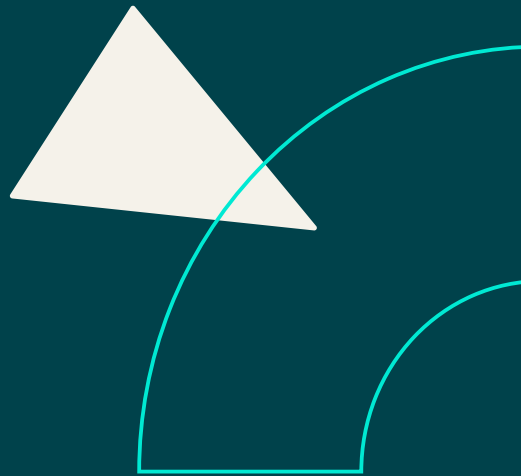
Centrifugal fans are designed to generate the pressure required to perform in longer and more complex duct installations. However their use is limited to duct runs of 6 metres for airflows between 0-30l/s and 3 metres for airflows between 31-60l/s.

To reduce risk of restricted airflow when installing fans with flexible duct, please note the following:

- The inner radius of any bend should be greater or equal to the diameter of the ducting being used.
- If the radius is reduced, the resistance of the bend will increase and the volume of air being extracted will decrease.
- Ensure flexible ducting is installed without peaks or troughs.
- External terminations must have at least 90% equivalent free area of the ductwork being used.



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