

Improving Ventilation in Winter

Why should I ventilate my venue?

Spaces with poor ventilation have been shown to **increase infections by nearly 50%**¹



Improving ventilation in your venue can help to reduce respiratory infections.

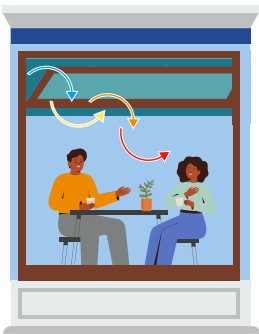
This will keep your customers safe and has been shown to **reduce staff sick leave by 35%**²



¹ <https://onlinelibrary.wiley.com/doi/full/10.1034/j.1600-0668.2000.010004212.x>
² <https://jamanetwork.com/journals/jama/article-abstract/371466>

Short Term

Worried about keeping customers warm?



Open high level windows

The cold air will mix with the warmer room air before touching people. So, you and your customers won't feel cold.

Even just a small amount

Small or thin openings work well in winter. Cracking a window is better than nothing.

No opening windows?

If you only have larger openings, like your front door, use these for short periods to replace stale air with fresh air.

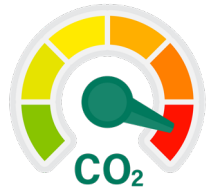
Make a ventilation plan

Ensure you have a clear plan for when you will replace the air, and who is responsible.



Medium Term

Worried about energy costs?



Consider using a **CO₂ monitor** to help you estimate your ventilation levels. This will allow you to adjust your ventilation to bring in the right amount of outdoor air, while minimising the impact on your heating bills. Use the short term options above if possible and work towards longer term changes.

800 PPM 1000 1200 1400 1500

These values indicate good ventilation.

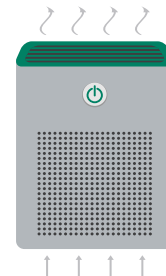
These values indicate you should improve ventilation. If consistently above this value, work towards the long-term actions below.

A typical monitor can cost as little as **£300** (Not including running costs)

Scan the QR code for further information on using CO₂ monitors.



Worried about noise?



Where noise is an issue preventing openings consider purchasing an **Air Cleaner**. These just plug into the wall.

Air cleaners that include a fan and HEPA filter are recommended.

An air cleaner system for a bar area of approximately 100 m² costs from **£2500**

(Not including running costs)

Scan the QR code for further information on using air cleaners.



Long Term

Install mechanical systems

Wall mounted fans are easier to retrofit. **Heat recovery** systems are available and are recommended to reduce energy bills.



The typical cost for 100 people ranges from **£1500^a** to **£15000^b**

^aFans only. Planning, installation, and extras such as sound attenuation not included.

^bCheaper units are extract only, more expensive units provide heat recovery.

Scan the QR code for further information on mechanical ventilation.

