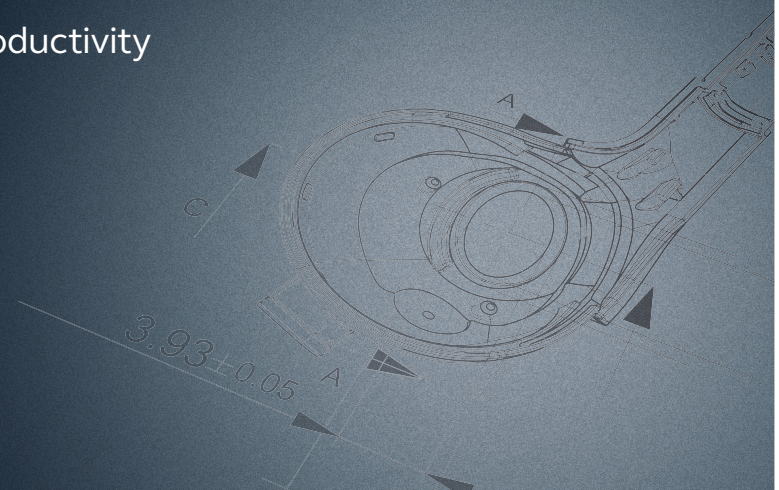




Jabra Evolve Series

Total Noise Cancellation

Solutions to enhance concentration, boost productivity and take control of unwanted office noise.



GN Making Life Sound Better



The open office is the common way to arrange modern workers, now over 70% of companies adopt this approach¹. Jabra have conducted numerous studies and discovered the biggest challenge impacting employee productivity is unwanted noise.

But not all noise is the same.

¹ Source: US Statistics BBC January 2017

How does noise effect your productivity?

We find it difficult to concentrate when there are noisy distractions, this directly impacts your productivity. Studies have shown that in modern workers it can increase levels of the stress hormone cortisol and ultimately lead to an increase in days off sick.



What types of noise impact the office worker?

Sound waves are movements of air molecules that our ears can translate into sound. However, Noise is a sound or a conjunction of sounds that is usually unpleasant and disturbing to the listener. When we talk about sound, we talk in terms of high and low frequency waves, which creates two main types of noise:

High frequency noises are the higher pitched sounds from open office such as ringing phones but mainly it is other people's conversations.

Low frequency noises are the rumbly noises in the office from noisy air conditioning, burbling coffee machines through to outside traffic noise.

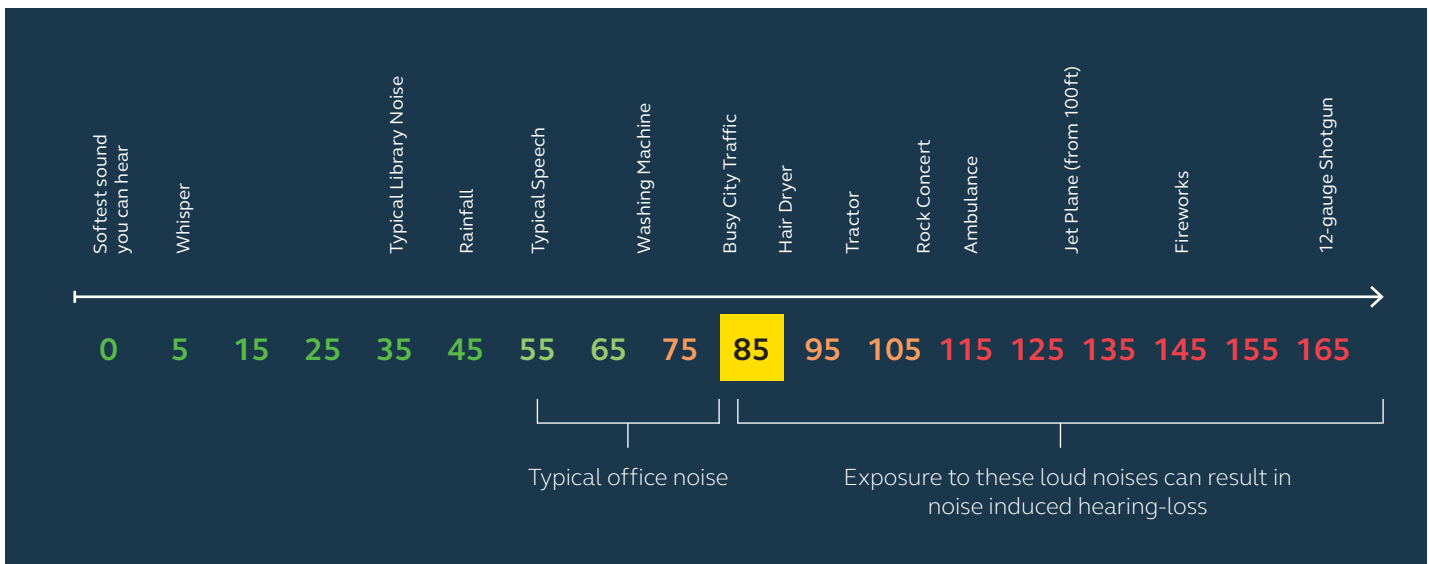
A major factor in the disturbance created by noise is the level, the diagram below gives an illustration of typical types of noise and their loudness. We measure loudness by decibels and in the open office that loudness is typically around 56 decibels. Whilst this is not potentially damaging like anything above 80 decibel level like a busy city traffic, it is still is distracting.



How can a headset reduce unwanted noise?

Jabra engineered the Evolve series of headsets to deliver the best concentration in the open office. They achieve this through expert headset design that delivers total noise cancellation through a combination of two techniques to reduce unwanted noise, these are known as Passive Noise Cancellation and Active Noise Cancellation.

Passive Noise cancellation uses the mechanical design of the headset to physically block noise from entering the ear. There are three headset designs which are used to achieve this, on the ear, in ear and over the ear. It is most effective at filtering out the high frequency sounds like office conversation.



Whereas Active Noise cancellation uses advanced microphones to sample the unwanted noise, and then creates an identical but reversed sound wave that cancels the noise before it reaches your ear. It is most effective at removing the continuous low frequency noises like the office air-conditioning.

Jabra have engineered a series of Evolve headsets to combine the benefits of both passive and active noise cancellation to ultimately deliver the best Total Noise Cancellation.

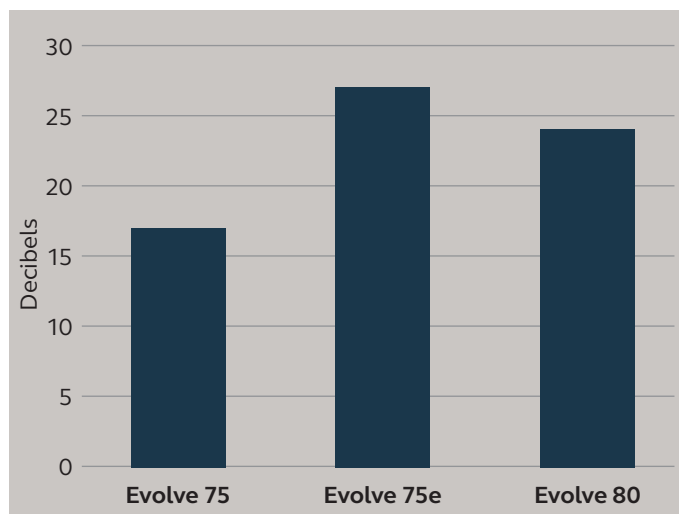
How well does the Evolve Series perform?

When you compare the perceived levels of noise cancellation across the premium products in the Evolve series, all deliver high performance. Whilst a simulation, the lab tests give an indication on the extent to which noise can be cancelled.

The Evolve 75 indicated a reduction of around 17 decibels thanks to its hybrid ANC solution, whilst the on ear open wearing style cancelled some noise passively.

The Evolve 75e delivers more cancellation, again using a hybrid ANC solution but the leading GN group expertise in ear bud design delivers significant cancellation in total of up to 27 decibels.

The Evolve 80 delivers best of both worlds, the over the ear design blocks noise and hybrid ANC in total cancels up to 24 decibels. In reality, the Evolve 80 delivers higher performance when you move from lab simulations to perceived office noise cancellation by the user.



What is Hybrid ANC?

This combines traditional feedforward and feedback ANC by placing a microphone on the inside and outside of the ear cup. Hybrid ANC can suppress noise at a broader range of frequencies, adapt to and correct errors, and is not as sensitive to how the person wears the headset.





What does this mean in the real world?

So what does this really mean? For open office workers by simply using a premium Evolve series product it can allow them to feel like they are working in a library rather than a noisy office. Aiding concentration, boosting productivity and taking control of the unwanted noise.



More about Jabra Evolve Series

**Engineered to be the best professional headsets
to enhance productivity in the open office**

Best-in-class noise cancellation enhances productivity, and world-class speakers deliver amazing sound for calls and music. Comfortable fit ideal for all-day wear, and call-management features make the headsets incredibly easy to use. Every Evolve is certified for Skype for Business and Cisco and is compatible with all leading UC platforms. The Evolve Series is designed to suit all the needs of task-based office workers, enabling them to drive UC adoption and gain more from their UC investment.

Better concentration, greater productivity.

Enhanced noise cancellation and world-class speakers for amazing sound for calls and music. The Jabra Evolve 80 and Evolve 75 are proven to be the best headsets for concentration in the open office. Visit Jabra.com/ANC to find out more about our Active Noise Cancellation.

Stay in the zone.

Reduce interruptions with an integrated busylight** that acts as a 'do not disturb' signal. This clever feature automatically lights up when you are on a UC call and updates according to your UC presence; when you are busy, the red light turns on to inform those around you that you are not to be disturbed.

End user friendly design.

Means you stay productive with easy-to-use call management features and great sound for music to aid concentration. Ideal for mass deployment and facilitating a quick UC ROI.

Jabra.com

Jabra Total noise cancellation White paper – 19/02/2018
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