

A photograph of three business professionals in a meeting. A man in a white shirt and glasses is smiling and looking towards a woman on the right. Another man in a grey suit is smiling in the background. They are seated at a wooden table with papers and a lamp. A large blue rectangle is overlaid on the bottom left of the image.

**HAVEN
SUPPLY AND
EXTRACT
TERMINALS**

Haven
RANGE

AIR IS ALL AROUND US, SO IT'S NO WONDER WHY IT'S SO IMPORTANT TO BUILDING DESIGN.

The way we typically design ventilation systems has been the same for decades. But it's only now that indoor air quality and occupant wellbeing are becoming more talked about that we have started to take a critical look at how we design systems.



A well-designed ventilation system is essential to creating not only a comfortable environment, but a healthy one.

A WELL-DESIGNED VENTILATION SYSTEM IS ESSENTIAL TO CREATING NOT ONLY A COMFORTABLE ENVIRONMENT, BUT A HEALTHY ONE.

THE CURRENT SOLUTION

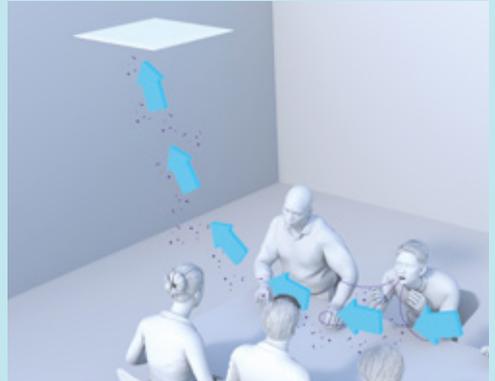
A typical ventilation system consists of a supply of fresh air and the extraction of polluted air from a space, using the space itself as a mixing chamber.



This type of system can work well, ensuring air pollutants, such as CO₂, are minimised through consistent air changes. However, one thing this model does not consider is pollutants created within the space itself.

THE CURRENT PROBLEM

The following diagram shows air pollutants being created in a space by an occupant in the form of a cough however, air pollutants can be generated by occupants talking and even breathing:



Under this typical ventilation design, the pollutants created, including bacteria, germs, and potentially viruses, are carried to the nearest extract outlet and removed from the space. Before exiting the area, however, these pollutants are carried over to other occupants, contaminating these individual workspaces.

Despite air changes in the space being at a suitable level, pollutants created within the room mean that there are areas in which the ventilation is not sufficient.

So how can we ensure that every individual within a space received adequate levels of ventilation? We provide the means to maximise ventilation effectiveness in a given location.



**pollutants
are carried
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WHAT IS VENTILATION EFFECTIVENESS?

Ventilation Effectiveness is described in Approved Document F as “a measure of how well a ventilation system works in terms of delivering the supply air to the occupants of a building”.

When considering this, it can be seen that typical system designs may not be effective for individual occupants, despite meeting overall supply air quantity requirements - by using generalised air supply and extract locations, it is almost impossible to guarantee a consistent level of fresh air to each occupant in a space.

If current systems don't have high levels of ventilation effectiveness, what is the answer? Introducing, Nuaire's latest targeted air distribution innovation - the Haven range.

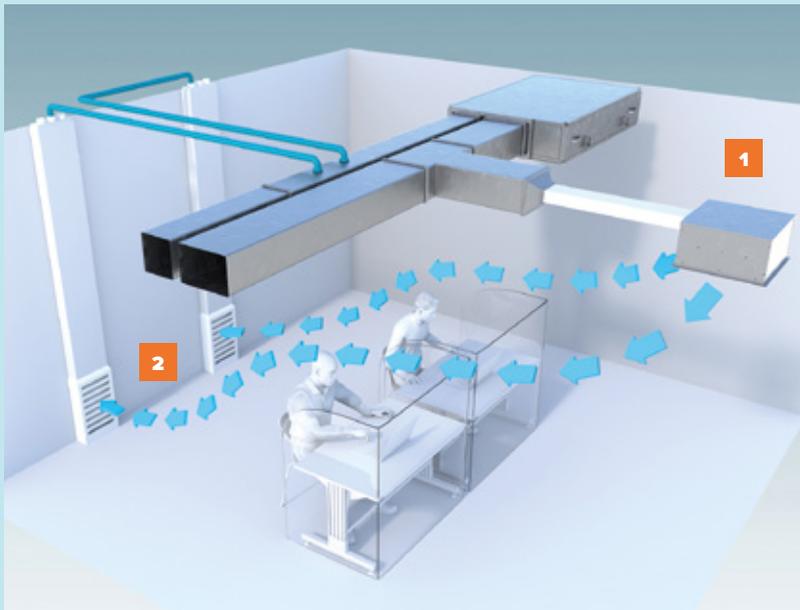


Haven
RANGE

THE PROBLEMS IN CURRENT VENTILATION DESIGN LED US TO DEVELOP OUR HAVEN RANGE OF SUPPLY AND EXTRACT TERMINALS.

NUAIRE'S SOLUTION

Haven is a unique concept that makes it easier to deliver targeted, filtered air to each occupant in a space.



Together, Haven Supply and Extract terminals ensure that the required outdoor air supply is delivered to individual occupants whilst minimising contaminant transfer to others

A typical Haven system incorporates the following:

- 1 Haven Supply Terminal** – supplies filtered air directly to individuals, ensuring that target flow rates are delivered.
- 2 Haven Extract Terminals** – strategically positioned to minimise contaminant transmission.



REDUCED RISK TO OCCUPANTS FROM POLLUTANTS

with fully specified and accessible terminal or module filtration.



FLEXIBILITY TO MEET EXISTING AND FUTURE NEEDS

with readily configurable targeted supply airflow and localised extract.



CONTROL OF EXTERNAL AND INTERNAL POLLUTION SOURCES

using a range of enhanced terminal filtration options.



OPTIMISED ENERGY USAGE

when installed with highly efficient air movement equipment, even where filtration levels may be more than today's typical standards.

As indoor pollutants such as viruses become more of a concern, the focus needs to be put on how air travels throughout a room and effective distribution system design to minimise the risk of cross-contamination.

Nuaire is passionate about creating healthier, happier spaces with higher indoor air quality and occupant wellbeing levels.

For more information
call 029 2085 8509 or visit nuaire.co.uk/haven

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