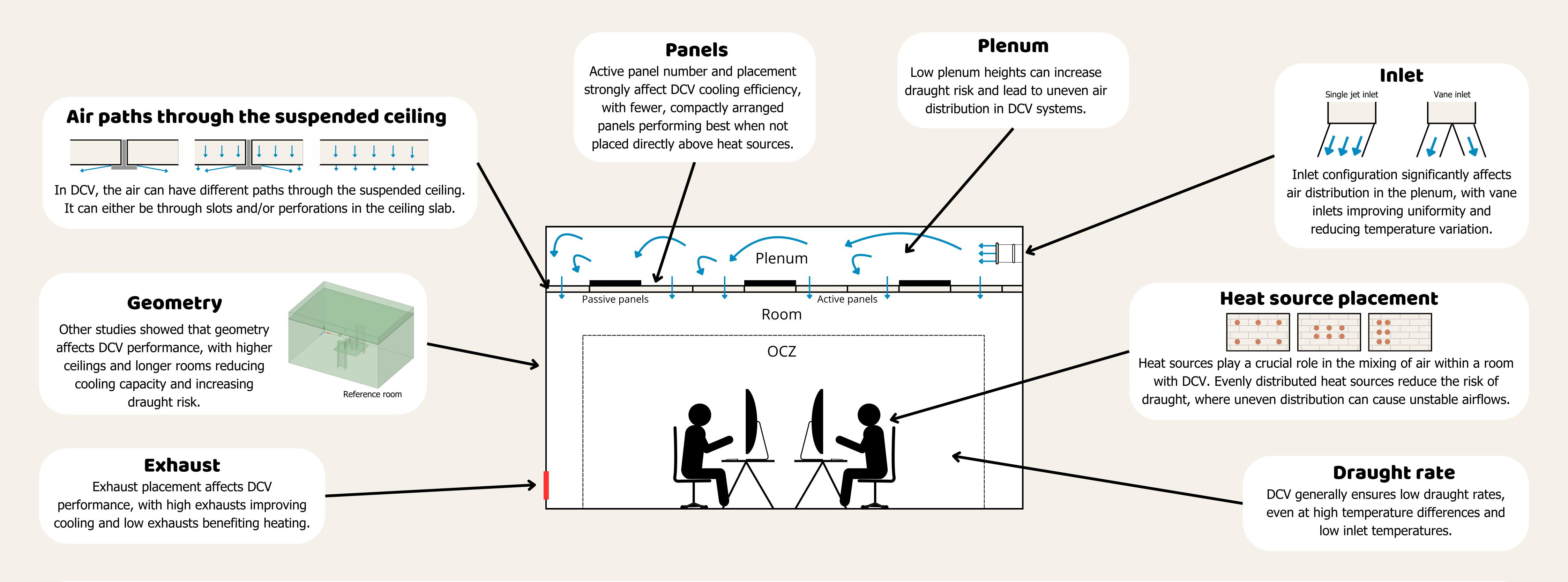
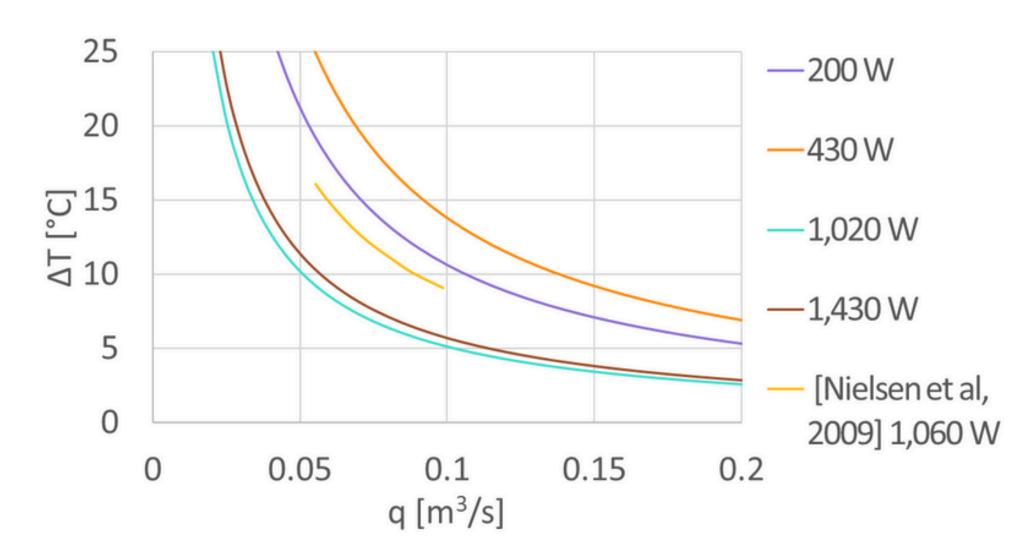
## A Configuration tool for diffuse ceiling ventilation

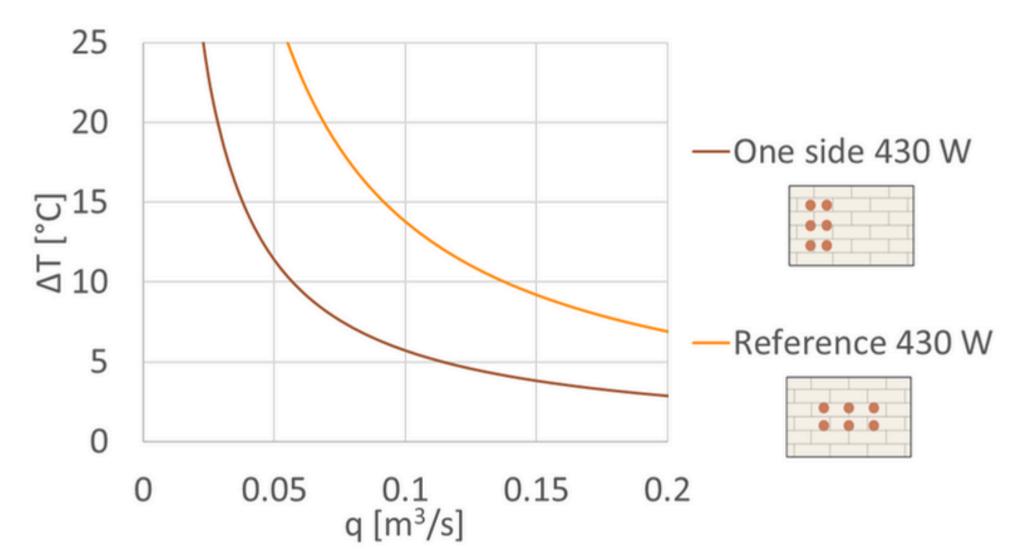


## Investigation results

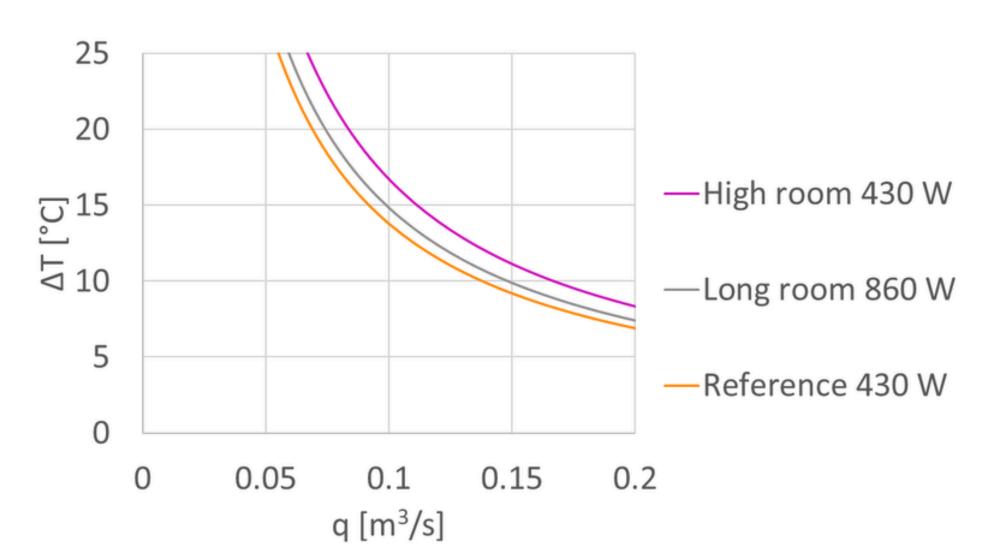
A numerical analysis of different parameters was conducted, and the results were converted into design charts indicating the system's cooling capacity under conditions that maintained occupant comfort.



Different heat load intensities are compared in the reference room. The highest cooling performance is present in the 430 W scenario.

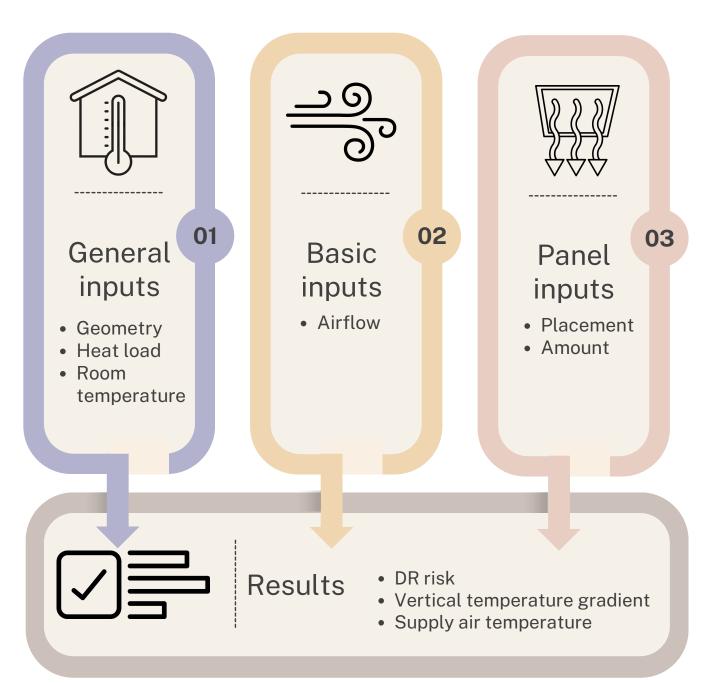


Heat load distribution was compared, both with a heat load intensity of 430 W. The centred distribution has a higher cooling capacity compared to the one-sided heat load.



Room geometry was varied by changing height and length in separate models, compared to the reference room. Room geometry does not seem to influence the performance. This is inconsistent with the literature, likely due to uncertainties.

## Configuration tool



The configuration tool is a prototype that will use design charts to evaluate DCV performance.