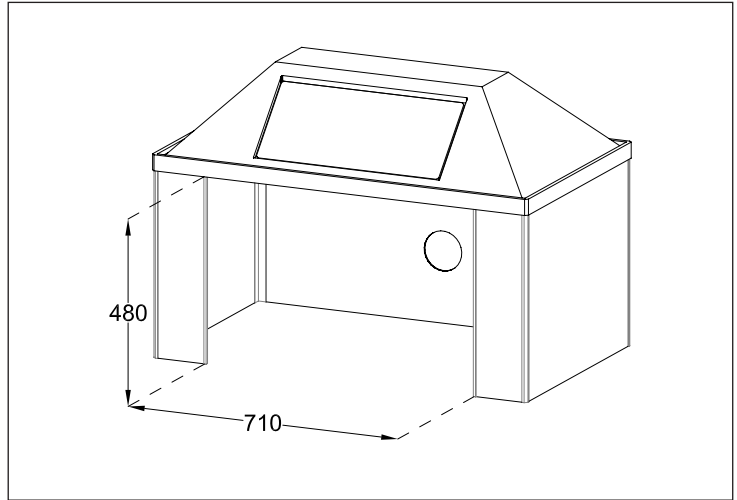25-106050

*The measurements of the
cabinet have been taken at
a volume velocity of 315 and
630 m³/h respectively.*

*Opening:
Geometric area: 0.341 m²
Effective area: 0.276 m²*

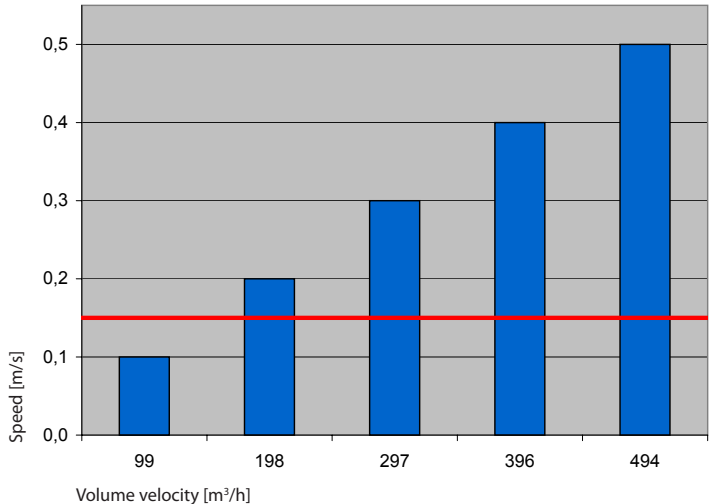## Coherence between volume velocity and wind velocity

The below table shows the coherence between the volume velocity and the wind velocity of the effective opening area. The effective area is used intead of the geometric area because turbulence along the edges of the opening slows down the air velocity. This results in an area along the edge where the suction efficiency is too low.

$$q_v = A \cdot v \cdot 3600 \text{ s/h}$$

q_v = volume velocity [m³/h]
A = the effective area [m²]
v = air velocity [m/s]

Volume velocity [m³/h]

Speed [m/s]

Volume velocity　　Draught limit