



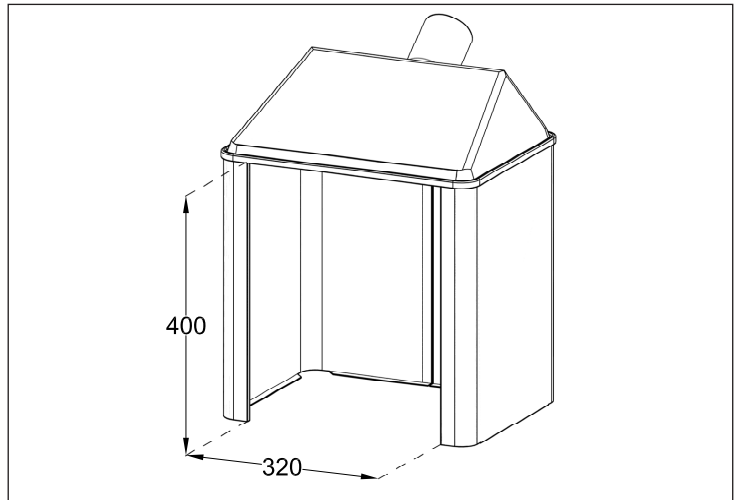
25-4030

The measurements of the cabinet have been taken at a volume velocity of 50 and 100 m<sup>3</sup>/h respectively.

Opening:

Geometric area: 0.126 m<sup>2</sup>

Effective area: 0.106 m<sup>2</sup>



## Coherence between volume velocity and wind velocity

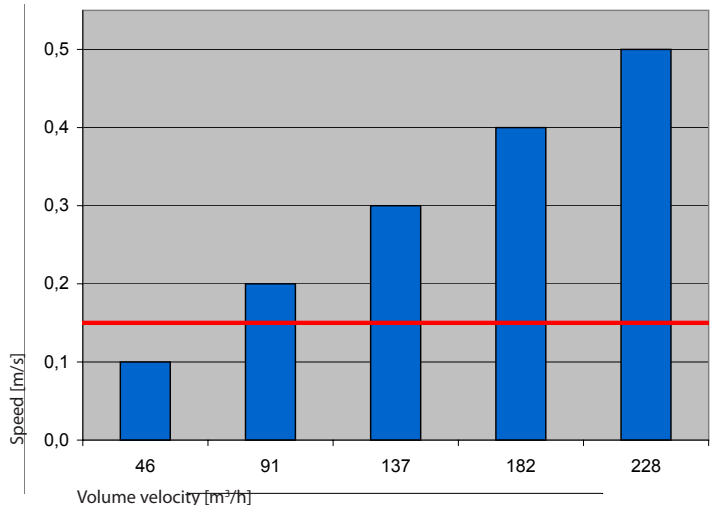
The below table shows the coherence between the volume velocity and the wind velocity of the effective opening area. The effective area is used instead of the geometric area because turbulence along the edges of the opening slows down the air velocity. This results in an area along the edge where the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

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

$q_v$  = volume velocity [m<sup>3</sup>/h]

$A$  = the effective area [m<sup>2</sup>]

$v$  = air velocity [m/s]



Volume velocity      Draught limit