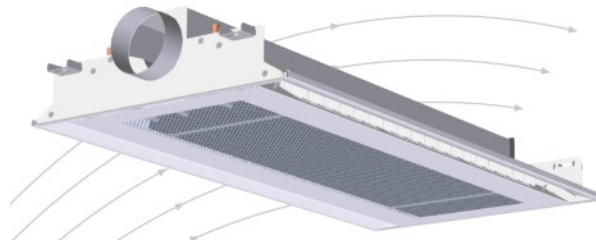


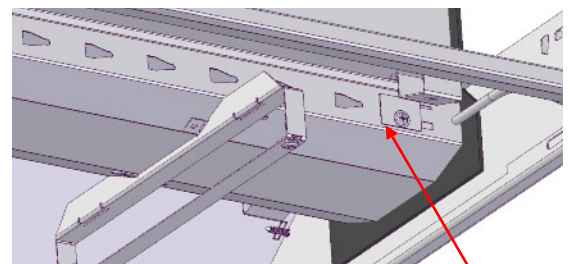
Technical information Svalbard Chilled Beams, changing nozzle configuration.



Topic: Nozzle values, configuration of both sides of nozzle sliding openings. Adjustment on site.



Solution: Nozzles to be adjusted on site by means of adjustment tool inserted in slot after loosening lock-screw, adjust sideways to new value. Use feeler gauge for checking new nozzle opening.



Lock screw, loosening and swing away plate. Tighten after adjustment.

New configuration values: Changing nozzle-opening values gives other airflow-rate and pressure loss. Graphs on page 2 shows airflow-rate and pressure loss for different nozzle openings. Also the K-factor for checking the air volume flow is shown by graphs for the different lengths. Note that water-side capacity changes with different nozzle-configuration.

Formula for air volume flow:

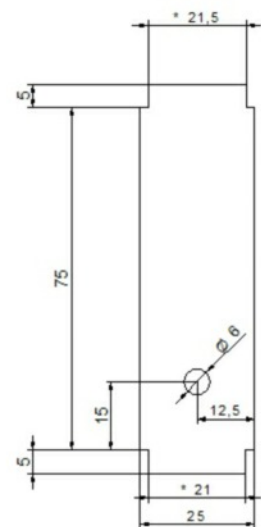
$$q[l/s] = k \cdot \sqrt{\Delta p_i [Pa]}$$

Nozzle pressure via measuring tube:

$$\Delta p_i [Pa] = \left(\frac{q[l/s]}{k} \right)^2$$



Adjustment lever.



Feeler gauge for nozzle-opening

(Tools to be ordered from factory.)

