











SVALBARD-H

CHILLED BEAM FOR CORNER INSTALLATION BETWEEN WALL AND CEILING

- Available in 1200mm to 3000mm lengths
- Adjustable pressure/air flow rate
- Adjustable flow pattern
- Dimensioning and simulation in AURASIM.

APPLICATION

Svalbard-H is a hydronic cooling, heating and ventilation system for use in offices, shops, schools etc. The system is designed to provide excellent cooling effect, and a high induction level ensures a draft-free environment

in the occupied zone. Svalbard-H is made for corner installation, i.e. between wall and ceiling.

DESIGN

- • Nozzle configuration for the chilled beam, i.e. desired air supply and pressure, is specified at time of order.
 - Svalbard-H comes with integrated air flow rate measuring point.
 - The front panel can be folded down for inspection and cleaning.
 - Svalbard-H is available in installation lengths of 1200, 1800, 2400 and 3000 mm.
 - Coil types: SKB = standard cooling coil or VKB heating and cooling coil.

- · Dispersion type: unidirectional
- Connection to air: Ø125 mm (spigot dimension).
- Connection to air and water on same side
- Connection to water, cooling and heating: Cu Ø15x1.0 mm
- Changeable flowpattern via Jet Split lamellaes in the beams outlet.
- Blind cover can be provided for adaptation to the wall. See Figure 9.

DESCRIPTION

MATERIAL AND SURFACE COATING

Frame and casing in galvanised steel. Delivered in a powdered painted finish (white RAL 9003 - gloss 30) as standard. Copper tube coils with aluminium lamellae. Adjustable lamellae are in a plastic design.

INSTALLATION

SVALBARD-H

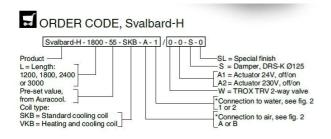
Svalbard-H is supplied with a mounting bar for attachment to wall, and to which the chilled beam is then attached.

Detailed installation instructions is to be found on our website: www.trox.no

WATER VALVE

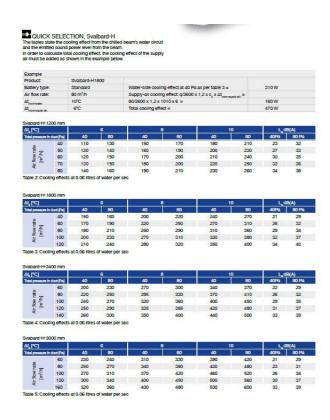
The water valve is to be installed on the return (chilled water out), and with the water-valve arrow pointing away from the cooling coil(the various connection options are shown in fig. 8).

TECHNICAL INFORMATION



Example:
Svalbard-H-1800-55-SKB-A-1/0-0-S-0
Explanation:
Svalbard-H, corner beam, length 1800 w/ pre-set value 55 and standard cooling coil
Connection to air A and water 1.
Commissioning damper DRS-K Ø125 supplied separately.
Connection to air and water on same side as standard. A-1 or B-2.





The supply air is supplied via nozzles that draw room air through the battery. Effective mixing of room air and supply air, i.e. induction, reduces the risk of draughts in the occupied zone. When Svalbard-I is to heat a room, the same technique is used to supply heat along the ceiling. The secondary air is sucked into the perforation on the underside of the baffle with the result that soiling of the roof is avoided.