









SVALBARD-F

CHILLED BEAM FOR OPEN INSTALLATION IN CEILING OR COVERING

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

APPLICATION

Svalbard-F 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-F is designed for open installation in ceiling or covering.

DESIGN

- • Nozzle configuration for the chilled beam, i.e. desired air supply and pressure, is specified at time of order.
 - \bullet Svalbard-F is delivered with integrated pressure outlet for air flow rate $\,$ measurements.
 - The front panel can be folded down for inspection and cleaning.
 - \bullet Svalbard-F is available in installation lengths of 1200, 1800, 2400 and 3000 mm.
 - \bullet Dispersion options: symmetrical 50/50 or asymmetrical 75/25 (25/75) can be adjusted on site.
 - \bullet Connection to air: gable end Ø125 mm (spigot dimension).
 - Connection to water: Cu Ø15 x 1, 0 mm.
 - Changeable flowpattern via Jet Split lamellaes in the beams outlet.
 - Blind cover can be provided for adaptation to the wall. See Figure 8.

DESCRIPTION

MATERIALS AND SURFACE COATING

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

plastic design.

INSTALLATION

SVALBARD-F

Svalbard-F is supplied with a mounting bar for attachment to ceiling or covering (fig. 7). Detailed installation instructions is to be found on our website: trox.no

WATER VALVE

The water valve should be placed on the return, that is, with arrow on the valve away from the cooling battery.

The cooling batteries in Svalbard-I are not directional, so the return can be connected at your own request. The water valve is directional.

TECHNICAL INFORMATION

	1	- 1		KB-A-50/50-1-W-A1-S-0
	1	2	3	4 5 6 7 8 9 10 11
1 Type/variant				7 Water connection*
Svalbard F, suspended installation				1 eller 2
2 Length				8 Water valve
1200, 1800, 2400 eller 3000				0 without water valve
				W TRV-2-way valve, delivered loose/unassembled
3. Adjustment factor				9 Actuator
Auracoolfactor				0 uten aktuator
4. Coil type				A1 actuator 24V, delivered loose/unassembled**
SKB standard cooling coil				A2 actuator 230V, delivered loose/unassembled**
HKB high-capacity coil				7.252(0.00)
VKB heating and cooling coil				10 Damper
5. Air connection*				0 without damper S with damper DRS-K 125**
A eller B				5 Will damper DR3-R 125
				11 Exposed surface
6.Flow pattern				0 RAL 9003
0 standard 50/50				SL-RAL special finish RAL
25/75 asymmetrical, x=25/ y=75 75/25 asymmetrical, x=75/ y=25				SL-NCS special finish NCS
The standard air and water connections " accessories supplied loose/unassemb		same g	gable e	ind: A1 or B2, see Figure 1.
*The standard air and water connections	led.		gable e	and: A1 or B2, see Figure 1.
*The standard air and water connections ** accessories supplied loose/unassemb	led.		gable e	nd: A1 or B2, see Figure 1. Svalbard-F
*The standard air and water connections ** accessories supplied loose/unassemb Exampel: Svalbard-F-1800-104-SKB-A-506	led.		gable e	-
*The standard air and water connections ** accessories supplied loose/unassemb Exampel: Svalbard-F-1800-104-SKB-A-506 Typofvariant Longth	led.		gable e	Svalbard-F
*The standard air and water connections * accessories supplied loose/unassemb Exampel: Svalbard-F-1800-104-SKB-A-508 Typo/variant	led.		gable e	Svalbard+F 1800
*The standard air and water connections ** accessories supplied looselunassemb Exampel: Svalbard-F-1800-104-SKB-A-500 Typolvariant Longth Adjustment factor	led.		jable e	Swalbard-F 1800 104
*The standard air and water connections ** accessories supplied looselunassemb Exampel: Svalbard F-1800-104-SKB-A-506 Typolvariant Longth Coll type Coll type Coll type	led.		gable e	Svalbard+F 1890 194 SKB
*The standard air and water connections ** accessories supplied looselunassemb Exampel: Svalbard = 1800-104-SKB-A-506 Typolvariant Longth Adjustment factor Coll type Air connection*	led.		gable e	Svalbard-F 1800 194 SKB A
*The standard air and water connections ** accessories supplied looselunassemb Exampel: Svalbard F-1800-104-SKB-A-500 Typelvariant Longth Adjustment factor Coil type Air connection* Flow pattern Water connection*	led.		gable e	Svalband+F 1800 194 SKB A 5050
*The standard air and water connections ** accessories supplied looselunassemb Exampel: Svalbard #-1800-104-SKB-A-506 Type/variant Length Adjustment factor Coil type Arr connection* Flow pattern	led.		gable e	Swilbard+F 1800 104 SK8 A 50/50
*The standard air and water connections ** accessories supplied looselunassemb Exampel: Svalbard F-1800-104-SKB-A-506 Typovaniant Longth Adjustment factor Coil type Air connection* Flow pattern Water valve Water valve	led.		gable e	Svalbard-F 1880 104 SKB A 5050 1

The primary air is supplied to the room through adjustable nozzles that cover a wide airflow range. The nozzles are calibrated at the factory to the desired ratio between the unit's pressure drop and the amount of primary air supplied to achieve the desired operating point. Svalbard-F has two-way air distribution in the room, it draws in room air through the battery for cooling or heating depending on the selected battery type. The baffle has good induction of supplied air to the room, ensuring a draught-free occupied zone. Svalbard-F is equipped with the Jet-Split system in the side slits of the unit, which gives the possibility to change the distribution pattern.