NORDIC VENT

SWEDISH DESIGN, SWISS MADE



HEATING & COOLING CEILINGS

# Comfort that comes **from the ceiling.**

A seamless plasterboard ceiling that heats in winter and cools in summer, through gentle radiation instead of moving air.



OUR SYSTEM

## SVALA

Plasterboard heating and cooling ceiling

**100 %**
active area possible

**2 in 1**
heating + cooling

**Silent**
no fans in the room

THE SYSTEM

# SVALA

SVALA is a plasterboard ceiling with a built-in copper water register. Cool or warm water runs through the register, and the whole ceiling surface gently cools or heats the room by radiation: no fans, no draught, no noise. The finished ceiling is seamless, smooth or perforated for acoustics. The register is fixed to the ceiling's own steel substructure, so it installs like a standard drywall ceiling. Up to the full ceiling area can be active, and lights, vents and hatches can be placed where you need them.

### Radiant comfort
Even temperature through the room, without draught.

### Silent
No fans in the room, so nothing to hear.

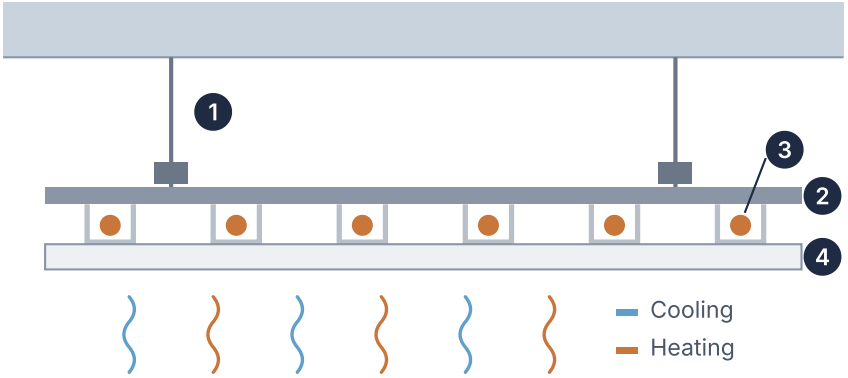
### Seamless finish
A clean, jointless ceiling, smooth or perforated.

### Up to 100 % active
Use the whole ceiling to carry high cooling loads.

### Free layout
Height steps, curves and built-in items are easy.

### Two in one
Cooling in summer and heating in winter, same ceiling.

## HOW IT IS BUILT




Schematic section, not to scale

1 Adjustable hanger

2 Steel ceiling profile

3 Copper water register

4 Plasterboard: standard (SVALA Nova) or graphite-enhanced for higher output (SVALA Polaris)

**Hydraulic connection**
Soldered copper, or press fittings with manifold and flexible hoses for fast installation.

**Options**
Acoustic inlays, inspection hatches, shadow-gap or open edge joint at the walls.

SVALA – Swedish for "cool". Designed by Nordic Vent.

TECHNICAL DATA

# SVALA at a glance

## SVALA NOVA

Standard high-density plasterboard. The economical choice for most rooms.

## SVALA POLARIS

Graphite-enhanced plasterboard that spreads heat faster, for higher output.

| Dimensions & build | |
|---|---|
| Panel length | TBC |
| Panel width | TBC |
| Weight | TBC kg/m² |
| Operating pressure | max. TBC bar |
| Wall connection | Shadow gap or open joint |
| Inspection | Hatches possible |

| Fire & acoustics | |
|---|---|
| Fire class (EN 13501-1) | TBC |
| Absorber class (ISO 11654) | TBC |
| αw (ISO 11654) | TBC |
| Stress class (EN 13964) | TBC |
| Surface | Smooth or perforated |

## HEATING AND COOLING CAPACITY

Nominal values per m² of active area. Cooling at 10 K (EN 14240), heating at 15 K (EN 14037).

| Model | Ceiling edge | Cooling W/m² | Heating W/m² |
|---|---|---|---|
| SVALA Nova | Closed ceiling | TBC | TBC |
| SVALA Nova | Open joint all round | TBC | TBC |
| SVALA Polaris | Closed ceiling | TBC | TBC |
| SVALA Polaris | Open joint all round | TBC | TBC |

**Sized for your project**
Nordic Vent calculates the active area for each room and confirms capacity in the quotation.

**Documentation**
Test reports and installation instructions are supplied with every project.

TBC = to be confirmed by test reports. Subject to technical change.

APPLICATIONS

# One ceiling, many rooms



**Hotels & conference** · meeting rooms, auditoriums, lobbies



**Schools** · classrooms, libraries



**Offices** · open-plan and meeting rooms

Also suited to homes and apartments, shops, banks, museums and galleries, studios, public buildings, clinics and laboratories, factories, airports and entrance areas.

## WHAT NORDIC VENT DOES FOR YOU

**Design**
Load calculation and layout of the active ceiling area.

**Combination**
Matched with ventilation and the heat source of the building.

**Supply & install**
One contact from quotation to finished ceiling.

**Commissioning**
Balancing, testing and handover documentation.

## Planning a project?

Send us your drawings, we will size the ceiling for you.

Nordic Vent · Lausanne
info@nordic-vent.ch
+41 77 992 62 32 · www.nordic-vent.ch