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Models

CUMULUS

Venetian blind

For vertical facades.
Traditional integrated blinds
16 mm slat. Thickness from 32 mm thick
Perfect for new window frames.

CUMULUS MICRO

27 mm sealed unit with blind

For vertical facades.
The ultra thin slats in horizontal position make the blind almost
Invisible. With 12.5 mm slat. Total thickness 27 mm
Perfect for new and existing window frames.

SAROS

Light-reflecting blinds. Mixed blind
with super reflecting slats in the upper
Part of the unit

For façades.
Stops the sun and directs the light towards the ceiling.
Improves natural light easing the working environment.
Consumption of electricity for light and cooling is reduced.

SIRIUS

For use in partitions.
The blind is raised from the bottom

For partitions or facade.
The blind is raised from the bottom to desired height.
Offers privacy without blocking for the light that is entering.
Perfect for meeting rooms, clinics and offices.

STRATOS

Pleated curtain.
For installation in roofs
and facades.

Can be installed in any angle from vertical to horizontal.
Perfect for skylights and conservatories
Transparent or opaque .

NIMBUS

Pleated curtain
For vertical installation

Available in transparent or opaque material.
Filters out the light while keeping outside view.
Light material, suitable for large windows.
Perfect where an outside view is desired.

OPERATIONS

Motordriven blinds can be controlled by switch or remote, or
fully automatic sun control.
Manual blinds may be operated with a cord,
Chain, magnet or dial.



Integrated blinds

CUMULUS

The Smart blinds within the façade.



KVALITETSSTYRINGSSYSTEM
DS/EN
ISO 9001



The intelligent blind system from



KVALITETSSTYRINGSSYSTEM
DS/EN
ISO 9001



The intelligent blind system from

CUMULUS

Working Environment:

The blind improves the sealed unit's g-value (the ability to keep out the heat of the sun) by up to 78 percent, resulting in a significantly improved indoor working environment.

Different operations:

Available with push-button or remote controlled motor or with a manual cord, chain, or dial.

Cleaning:

Hygienic—no cleaning or maintenance required.

Design:

Provides the architect with ample freedom of design since the blinds are integrated in the window.

Energy Consumption:

The insulating properties of a sealed unit with Low-E glass are increased by up to 12 percent, thanks to the built-in blinds.

Energy requirements:

The built in blinds makes it easier to meet the requirements of the Energy Regulations since the amount of artificial lighting can be reduced.



Improved Working Environment

Large glass panes increase the level of light in the room; however, they often create interior climate problems.

Hagen's Blind System solves this problem since integrated blinds improve the insulation ability of the thermal window by up to 12 percent.

In addition, the window's solar shield factor against heat gain (g-value) is improved, which means that the integrated blinds reduce solar heating of the room by up to 78%.

References:

Hagen blinds are installed in BMW headquarter (D), Nykredit in Copenhagen, The Opera Building in Copenhagen (DK), The Opera building in Oslo Norway, Zamarot Towers in Telaviv in Israel

The heat loss through the window will be reduced when the blinds are closed at night and during the winter.

The benefits are doubled:

- *Much better indoor climate, greater comfort for indoor occupants.*
- *Lower energy consumption for cooling and heating of the rooms.*

Comfort & Control

Hagen blinds are available with either:

Manual control (*cord, chain, or dial*).

Motorised (*with either fixed or wireless push-button or remote control*).

Hagen's advanced motor control system provides optimal comfort and the option to control the blinds individually or in groups. In addition, there is the option to operate from a BMS system, a solar sensor, or a timer.

As an added safety feature, an advanced electronic limit switch ensures that motor controlled blinds stop properly in the top and bottom positions.

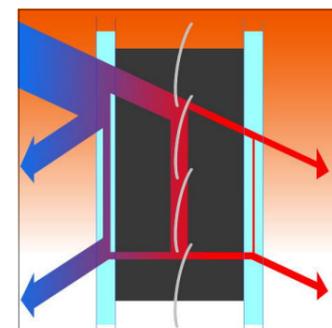
Interstitial Venetian blinds. The Smart solution for solar control In all façades and windows.



Hygiene

The blinds are integrated between the glass panes in a sealed unit, offering total protection against damage and dust. Therefore no cleaning or maintenance is required.

Total hygiene



Integrated blinds— freedom for the architect

Hagen's **CUMULUS** model is an elegant way of blocking out the sun because it is included as an integrated part of the windows, giving the architect total freedom of design when designing the façade.



Energy

Today there is heavy focus on energy consumption in new buildings because of the regulations regarding future energy savings.

Integrating Hagen's **CUMULUS** model into the façade will add to the building project's overall climate balance:

Lower energy consumption for cooling and ventilation (up to a 78% improvement of the window's g-value, which helps to keep the room temperature down).

Lower energy consumption for heating (closed blinds reduce heat loss by up to 12%).

Lower energy consumption for lighting (the natural light is used more efficiently than with awnings and the like, allowing for a reduction of energy-consuming, heat-generating artificial lighting).



Hagen's **CUMULUS** model is ideal for façades; closed blinds reduce daytime heat accumulation in the room by up to 78 percent, in addition to lowering night time heat loss

The intelligent blind system from

