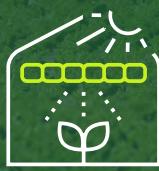




# Ridder Climate Screens



## Tailor-made screens for a better greenhouse climate.



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# Ridder Climate Screens: Always the right screen for your greenhouse.

In modern greenhouse horticulture, details make the difference. An optimal climate directly leads to higher yields and better quality. Climate screens play a crucial role in this. They not only help regulate the climate but also contribute to energy savings and reduced light emission. Ridder offers a complete range of climate screens tailored to every cultivation need.

Our screens are used by growers all over the world, and thanks to close collaboration with greenhouse builders and installers, a fitting solution is always within reach. With our own production facility in the Netherlands, we can quickly respond to specific needs and continuously innovate.

## **A reliable knowledge partner**

Want to get more out of your crop? Save energy? Improve working conditions or reduce light emission? Ridder thinks along with you and advises the right screen, tailored to your situation and goals.

## **Perfectly integrated with other Ridder solutions**

For maximum synergy, combine our screens with Ridder installations, drive systems, water treatment systems, and climate technology. All perfectly aligned and seamlessly connected.

## **Always close to the customer**

Choose Ridder not only for the high quality of our screens, but also for our outstanding, personal service. Together with greenhouse builders and installers worldwide, we ensure a solution that fits.

## **Fast delivery from Maasdijk**

Thanks to our production location in Maasdijk, we can deliver quickly. We always keep the most commonly used types and sizes in stock.

## **Innovation rooted in the Netherlands**

The Netherlands is a global leader in horticultural technology, and Ridder Climate Screens is part of that leadership. With our own laboratory and a team closely connected to the market, we quickly translate new insights into innovative screen solutions. Local production also makes us less vulnerable to disruptions in global supply chains.



## **A complete solution for all your screening needs.**

# Ridder Energy Saving Screens

The optimal balance between energy savings, light transmission, and moisture control.

Many crops can't do without heating during the colder months of the year, and with today's energy prices, that's an expensive necessity.

Keeping screens closed for longer periods can reduce energy consumption, but it may also increase relative humidity. And as a grower, you don't want to lose valuable daylight that's essential for crop photosynthesis.

## All the benefits in one

With Ridder Energy Saving Screens, we've developed the ideal best-of-both-worlds solution. The screen prevents heat loss, while its transparent structure allows sunlight to reach the crop as usual. Moisture beneath the screen is efficiently released, keeping the climate under control.

The result? Lower energy bills and optimal climate for your crop.

## Energy-saving screens with added value.

### Maximum energy savings

Ridder energy saving screens optimize energy savings for the grower, providing up to 49% in energy savings. It also ensures a uniform and consistent temperature distribution throughout the greenhouse.

### Maximum light transmission

Ridder's energy saving screens are as transparent as possible, to maximize the light that your crop receives. Even when the screen is closed, the compact screen package ensures minimal light loss inside the greenhouse.

### Maximum moisture control

The screen features a unique knitted structure that prevents condensation from settling on the fabric, eliminating the risk of dripping onto the crop for good.

### Maximum fire safety

At Ridder, we also support your risk management strategy. To reduce the risk of fire, our screens are available in flame-retardant versions.



# Ridder Light Diffusion Screens

The importance of diffuse light is undeniable. By scattering the light, it reaches deeper layers of the crop, accelerating growth. Indirect diffuse light also prevents leaf burn and reduces plant stress.

Let daylight work harder for your crop.

The result is a uniform, high-quality crop that stays healthy for maximum production. With Ridder Light Diffusion Screens, you not only optimize the effect of light, but also help maintain a stable greenhouse climate.

## Choose the perfect diffuse screen

No two crops are the same, and different crops respond differently to diffuse light. That's why Ridder offers a range of diffusion screens. Open types for warmer climates, and closed versions for regions with lower average temperatures.

## Save energy

Energy savings and light diffusion, in one solution.

Even when closed, diffusion screens retain their energy-saving properties, with savings of up to 47%.

## Improve working conditions

Greenhouse or corridor staff appreciate the added comfort of a diffuse screen with light-shading properties.

## Optimize light distribution

Diffuse screens spread light more evenly, ensuring that every plant in the greenhouse receives an equal amount of light.

## Control humidity levels

Diffuse screens reduce temperature fluctuations, which helps limit moisture buildup and lowers the risk of condensation.

# Ridder Light Diffusion Open:

Diffuse light isn't always the only requirement when choosing a screen. What if you also want to protect both your crop, and your staff, from the sun during summer?

The solution: Ridder Light Diffusion Open Screen. It offers the same diffuse light benefits, with the added advantage of extra shading and cooling, without compromising light diffusion. Combine the screen with ventilation above the crop to create an optimal greenhouse climate

for both plants and staff. An open-structure diffusion screens allows airflow freely to the roof vents.

That's why the Open Screen is the ideal choice for warmer regions or for crops that require extra cooling, such as phalaenopsis and freesia. When added as a second screen with a closed-structure screen, an open diffusion screen can enhance energy savings as well.



## Ridder Light Diffusion Screens: no growth without light

Ridder Light Diffusion Screens are the ideal choice for growers of potted plants, bedding plants, and flowers. Thanks to the screen's special structure combined with diffuse strips, these screens are highly versatile.

The plant benefits from sunlight that penetrates deep into the crop, a major advantage for tall-growing varieties. At the same time, you as a grower maintain maximum control over light levels and crop temperature.

By default, Ridder's diffusion screens have a closed structure, offering several advantages: greater energy savings and less condensation. The crop cools down gradually in the evening, promoting a stable and healthy greenhouse climate.

# Ridder Sun Shading Screens

Protect your crop from direct sunlight and create the ideal growing climate.

Protect your crop from direct sunlight and create the ideal growing climate. Excessive light intensity can harm your crop, with the risk of leaf burn always looming. Ridder Sun Shading Screens effectively diffuses sunlight, and does more than just that: they also help reduce energy consumption. If temperatures suddenly drop in the greenhouse, the screen prevents condensation from forming because of their unique design.

Ridder Sun Shading Screens are designed to provide shade anywhere in the world, not just in Western European climates, but also in tropical regions, where they perform just as reliably.



## Control over sunlight and temperature in any climate.

### One climate screen. Four reasons:

#### Save energy

When closed, energy consumption can be reduced by up to 68%.

#### Cool the temperature

Even on tropical days, the greenhouse climate stays comfortably cool.

#### Ensure uniform quality

A stable and evenly distributed climate supports both higher yields and better crop quality.

#### Control moisture

A rapid temperature drop typically causes condensation – but not when using Ridder Sun Shading Screens.

#### Ridder Sun Shading Screens: maximum protection and energy savings

Ridder Sun Shading Screens are designed for greenhouses equipped with ventilation or cooling systems.

One of their key advantages: a single screen is all you need. These screens combine three functions in one: shading, cooling, and energy saving. During the day, they reduce excess sunlight; at night, they help lower energy consumption when closed.

#### Ridder Sun Shading Screens Open: maximum cooling

Ridder also offers the right solution for specific conditions, such as high radiation levels on a sunny summer day. That's exactly what this screen was developed for.

It's also a smart choice for greenhouses equipped with a hybrid screen system and traditional ventilation.

# Ridder Light Restriction Screens

Reduce the emission  
from assimilation lighting.

Governments are increasingly setting strict limits on light emissions from greenhouses. With Ridder Light Restriction Screens, your greenhouse remains socially responsible in its surroundings.

These screens restrict light emissions from the greenhouse by 99%, while also helping to reduce temperature and humidity levels inside the greenhouse.

Ridder Light Restriction Screens are compatible with all types of assimilation lighting: LED, HPS, and HID.

## Turn regulations into results

Ridder Light Restriction Screens do more than just block light emissions. Their unique knitted structure gives you greater control over the greenhouse climate. An added benefit: the reflective inner layer improves light distribution beneath the closed screen, enhancing the efficiency of your lighting, and boosting crop growth.

**Prevent light pollution  
with Ridder's Light  
Restriction Screens.**

Ridder Light Restriction Screens have a durable structure. One that helps prevent damage during the installation of the screen.

## Take responsibility

Prevent your greenhouse lighting from disturbing the surrounding environment. Ridder Light Restriction Screens block 99.5% of light emission.

## Keep temperature under control

The excellent reflective properties of the screen provide optimal cooling performance.

## Manage humidity levels in the greenhouse

The knitted structure offers key climate benefits: moisture can easily escape beneath the screen. This effectively reduces the risk of condensation forming under a closed screen.

# Ridder Blackout Screens

Effective blackout and energy savings can go hand in hand.

In some crops, day length is critical, such as chrysanthemums and medicinal plants.

With Ridder Blackout Screens, you have the ideal tools to perfect your blackout strategy, leading to higher yields and improved quality.

An impressive 99.9% blackout, that's the unmatched performance of Ridder Blackout Screens.

But blackout isn't their only strength. These screens also help regulate temperature and maintain an optimal greenhouse climate. Ridder Blackout Screens are knitted, a smart structure that effectively manages moisture. And when it comes to reducing energy consumption, they truly excel.

**Control the optimal day length for your crop.**

#### **Take control of day length and crop production**

Daylight is completely blocked from entering the greenhouse, giving you full control over your crop's flowering stages.

#### **99.9% blackout**

Daylight enters the greenhouse only when you decide.

#### **Compact screen package**

No light loss when the screen is closed. The knitted structure ensures a slim and efficient screen profile.

#### **High-quality material**

Strong and durable structure, reducing the risk of damage during installation.

#### **Moisture regulating**

The knitted design helps prevent condensation in the greenhouse and dripping onto the crop.



# The power of collaboration.

For over 70 years, Ridder has been a trusted partner for growers and industry partners around the world, helping to achieve sustainable growth.

As the world evolves, so does Ridder. With smart, integrated solutions, we support growers in tackling today's and tomorrow's challenges, in climate, water, labor, and energy.

As a family-owned company with a pioneering mindset, we understand the complexities of modern horticulture. That's why we develop intelligent, open systems to meet those challenges head-on. Whether it's our Hortimax climate computer, the brain of the greenhouse, our groundbreaking Smart Drive that sets a new standard in drive systems, or our cutting-edge GRoW harvesting robot, we're committed to making a difference.

But technology alone isn't enough. It's the power of collaboration and knowledge sharing that truly drives our growth. We're ready to work alongside you to create innovative solutions that contribute to a more sustainable future.

Scan the QR code  
and connect with us.



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