



“MY PLANNED EXTRA ENERGY SAVINGS HAD ALREADY EXCEEDED”

Together with his partner Aad Sonneveld, Arno Bross grows red peppers at their modern nursery, Wilgenbos. Raised in a family of horticulturalists, Arno has spent his entire working life in the greenhouse. His extensive experience is evident when he passionately talks about the cultivation and the climate in the greenhouse. He knows in detail how Luxous climate screens can optimally be used.

Kwekerij Wilgenbos nursery was built 10 years ago. The whole nursery was equipped with 4000 lux assimilation lighting, with the goal of being earlier to the market than competing growers with a standard pepper crop grown without the use of lighting. In the autumn of 2014, a second screen was installed in the greenhouse in addition to the Luxous 1347 FR already installed. Arno decided to go for the same type of climate screen even for the second layer. The main reason being the especially high light transmission and high energy savings. By March 2015, it was evident that the planned extra savings of 3 m3 gas per square meter had already been exceeded.

Regulating the first screen follows the same strategy used in prior years. It's not unusual for the screen to remain closed for 24 hours on cloudy days, during the first months of cultivation. Regulating the second climate screen however has been more of a learning process”, says Arno. “But thanks to the good humidity transmission of Luxous, multiple double screening hours can be achieved.” In order to obtain an ideal setting for the plants, the screening hours are managed according to a specific temperature sequence over a twenty-four hour period. The opening and closing of the climate screens are directed in order to realize this temperature strategy. “In addition to saving energy, the climate screens are also used to manage the cultivation”, explains Arno. If the humidity level is too high in the greenhouse, the screen is not opened. The deployed method of work is to air above the closed climate screen or to open the screen completely.

The costs of gas varies per season and sometimes even within a twenty-four hour period. As a grower, you have little control of this. With two climate screens, this dependence is reduced. After installing a second climate screen, gas costs have been further reduced making it possible to regulate the gas consumption per hour over a twenty-four hour period by controlling when to open or close the screens. “The high light transmission from the Luxous climate screens for use during the day is vital”, the grower concludes enthusiastically.

WILGENBOS

Grower profile

Arno Bross
Owner

Company profile

Location: Bleiswijk, Netherlands
Greenhouse: Venlo, 71.000 m²
Crop: peppers

What climate was needed:

Both energy saving and controlling temperatures in the greenhouse by means of climate screens.

Svensson Climate solution:

Two LUXOUS 1347 FR climate screens, installed on top of each other.

