



# Al Mallouhi Agriculture

Saudi Arabia

## PROJECT

*Greenhouse size* | 25 ha

*Crop* | Tomatoes, sweet peppers and cucumbers

## About Al Mallouhi Agriculture

In Unaiza, located in the Saudi province of Al-Quassim, vegetables of a very high quality are being cultivated. The greenhouse of Saleh Al Mallouhi in Unaiza, 25 ha in size, is one of the largest glass greenhouses in the Kingdom of Saudi Arabia. It is the leading example in the Kingdom of how healthy food can be cultivated in a sustainable way.



## Challenge

The extreme climate, hot temperatures especially, makes growing conditions significantly more difficult in Saudi Arabia than almost any other place in the world. In addition to this, water is becoming saltier and scarcer. The majority of growers use plastic tunnel greenhouses. However, the production per m<sup>2</sup> in such greenhouses can be as little as one third of Venlo-type greenhouses. Using plastic tunnel greenhouses only enables cultivation in the winter period. Therefore, a glass greenhouse is a better choice and allows the climate to be controlled with water and energy use managed throughout the year.

In order to do so, a computer controlled climate is needed that can work in any type of greenhouse, regardless of the location. At the same time, the climate computer needs to be easy to use and able to deal with harsh climatic patterns. Al Mallouhi was already using an automation system but it was not fulfilling their needs. This led to Hoogendoorn providing the Al Mallouhi greenhouses with better automation solutions indeed.





# Facts

**Company name**

Al Mallouhi Agriculture

**Grower**

Saleh Al Mallouhi, owner

**Crop**

Tomatoes, sweet peppers & cucumbers

**Greenhouse size**

25 ha

**Location**

Unaiza, Al-Quassim, Saudi Arabia

**Solution**

iSii process computer with PAD & FAN cooling

**Result**

Higher quality and production

"Our production has even risen thanks to using the Hoogendoorn computer. This is due to the extremely precise PAD & FAN computer program."

## Solution & Results

Currently, the horticultural firm is using 4 Hoogendoorn iSii process computers. These process computers control the climate, cooling, water management and energy management. They replaced computers of a competing brand. The grower is fully satisfied with this change. He is very well pleased with the iSii computer. According to Al Mallouhi, the iSii is easy to use and delivers perfect control with the PAD & FAN

program. This program improved the quality of his crops and resulted in higher production levels. "Our production has risen thanks to the use of the iSii computer. This is due to the extremely precise PAD & FAN computer program", said Mr. Saleh Al Mallouhi. Furthermore, he has the ability to remotely receive data and maintain control of his process computers' functions.

# Worldwide innovator

in horticultural automation



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