

**Industry: Agriculture, cultivation of flowers**

**Products Used: FR-F740 frequency inverter**

# Passion and Experience in the production of flowers

The cultivation of flowers has been traditionally passed down through the last 4 generations of the Ptaszków family. Thanks to the huge experience of the family, employees and the continuous improvements in cultivation techniques, the company JMP Flowers ([www.jmpflowers.pl](http://www.jmpflowers.pl)) is currently the European leader in the quality, durability and the flawlessness of the flowers produced by them.



Effective production management of flower cultivation in greenhouses on over 11 hectares needs the application of the highest Technologies available.

As JMP specializes in the cultivation of a several varieties of flowers e.g. roses, antirrhinum and orchids, which require different growing habitats i.e. humidity and temperature, it is important to create such optimum conditions for growth.

In order to match all these expectations it was necessary to use the highest quality of variable frequency drives.

The well developed functionality of the HVAC system and the ease of use of the FR-F740 frequency inverter turned out to be the ideal solution for this application.

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Thanks to the implementation of Mitsubishi Electric frequency inverters we were able to guarantee our flowers the ideal growth conditions. Due to these ideal conditions our flowers' trade mark is their beauty and durability. Most of our rose species stay fresh in a vase from 10 to 21 days and the antirrhinum keeps between 3–5 weeks.

(Jarosław Ptaszek)

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Another key benefit delivered by the Mitsubishi Electric frequency inverter was the reduction in energy usage in the production process.



This was achieved by the creation of an algorithm to optimize the energy usage as the goal was to lower energy bills which in turn considerably reduced production costs.