BlueSense™ benefits from a solid experience in the flower bulbs market with numerous references in the Netherlands for the preservation of daffodil, lily and tulip bulbs, and also of peonies and hosta roots.

Numerous OxAgri units are successfully installed for flower bulbs and roots preservation and post-harvest water systems. Providing hypochlorous acid, OxAgri units sanitize large volumes of water and drastically limit the risk of product contamination (efficient on mold, fungi, invertebrates such as nematodes or flies, bacteria).

Part of the HNV (Het Nieuwe Verwerken van bloembollen) initiative, BlueSense™ aims to prevent outbreaks of diseases and pests throughout the flower processing chain and to help growers to comply with the high quality standards required by the industry in particular for export markets.

Main advantages of using BlueSense™ solutions:

- Efficient on bacteria, fungi and viruses including PlamV and Woeker
- On-site and on-demand production of disinfectant
- Consistent free chlorine concentration
- No handling or storage of hazardous chemicals
- No use of Formaldehyde (compliance with the E.U. regulation)
- 100% reduction of acid use
- Improved lifetime of the equipment
- Reduces the use of plant protection products
- Quick Return on Investment
CASE STUDY

Vernooy VOF Peony and Hosta farm
De Zilk, The Netherlands

Vernooy VOF has more than 30 years of experience in supplying perennial flowers and plants for the horticulture business. It specializes in breeding and production of starting material for hostas and peonies. The farm consists of approximately 80 species and varieties of hostas and as many peonies covering more than 20 hectares.

By using OxAgri ECA water (Electro Chemical Activated), Vernooy strive to create a more sustainable and environmental friendly way of growing their flowers, reducing the use of chemical products. Now that formaldehyde is banned, Vernooy chose our system to kill bacteria such as botrytis, and also mold such as fusarium and of course viruses like HVX and tabaksratelvirus from their growing material.

The roots preservation process is composed of various phases.
First the roots are harvested and rinsed from dirt and soil to reduce the risk of fungal and bacterial contamination. The roots are then cooked in a warm bath (temp. about 43°C) in order to kill harmful nematodes and micro-organisms inside the roots.
Vernooy uses ECA water for both the rinsing and the bathing of its roots to make sure the water remains disinfected.

We use ECA-water as a solution to keep out bacteria, viruses and moulds
[...] we are working to get even cleaner and healthier hostas and peonies in an environmental friendly way.

Harry Van Dongen
Co-owner

OXAGRI Working Principle

1 - Softened water is used to prepare a saturated brine (Salt + Water).
2 - Water is circulated through the electrolysis cell to produce a 6,000 ppm free chlorine solution.
3 - The solution is then transferred into the ECA Water tank (Electro-Chemically Activated).
4 - A new brine is produced, softener is regenerated and a new batch is produced.