



HIGH PRESSURE FOG SYSTEMS

www.mjtech.nl



High Pressure Fog our core business!

“All giant leaps in technology and achievement come to us as a series of small steps, each building on the last one...to go just that much further than was achieved before.”

Many small steps over the last decades make that we are a leap ahead with high pressure fog systems for greenhouses and other applications. Steps that could and can be done given our focus. We design installations which create fog and what makes us unique is our expertise to the entire process. From concept, engineering, producing own parts (e.g. all press couplings for the PressFog units) to assembly, factory pre-delivery inspection and testing, installation and commissioning. All tailored to your needs!



Your Partner!

Based on your initial thoughts about how to use micron droplets, we will jointly find a suitable solution. This can range from a single function as humidity control, to multi-functional usage where the same high-pressure pump-unit can also be used for disinfection or even early fire suppression. Your ideas will inspire us and together we will make it happen!



Why MJ-Tech?

Proven total system,
significantly higher reliability.

Most advanced and durable,
all stainless steel.

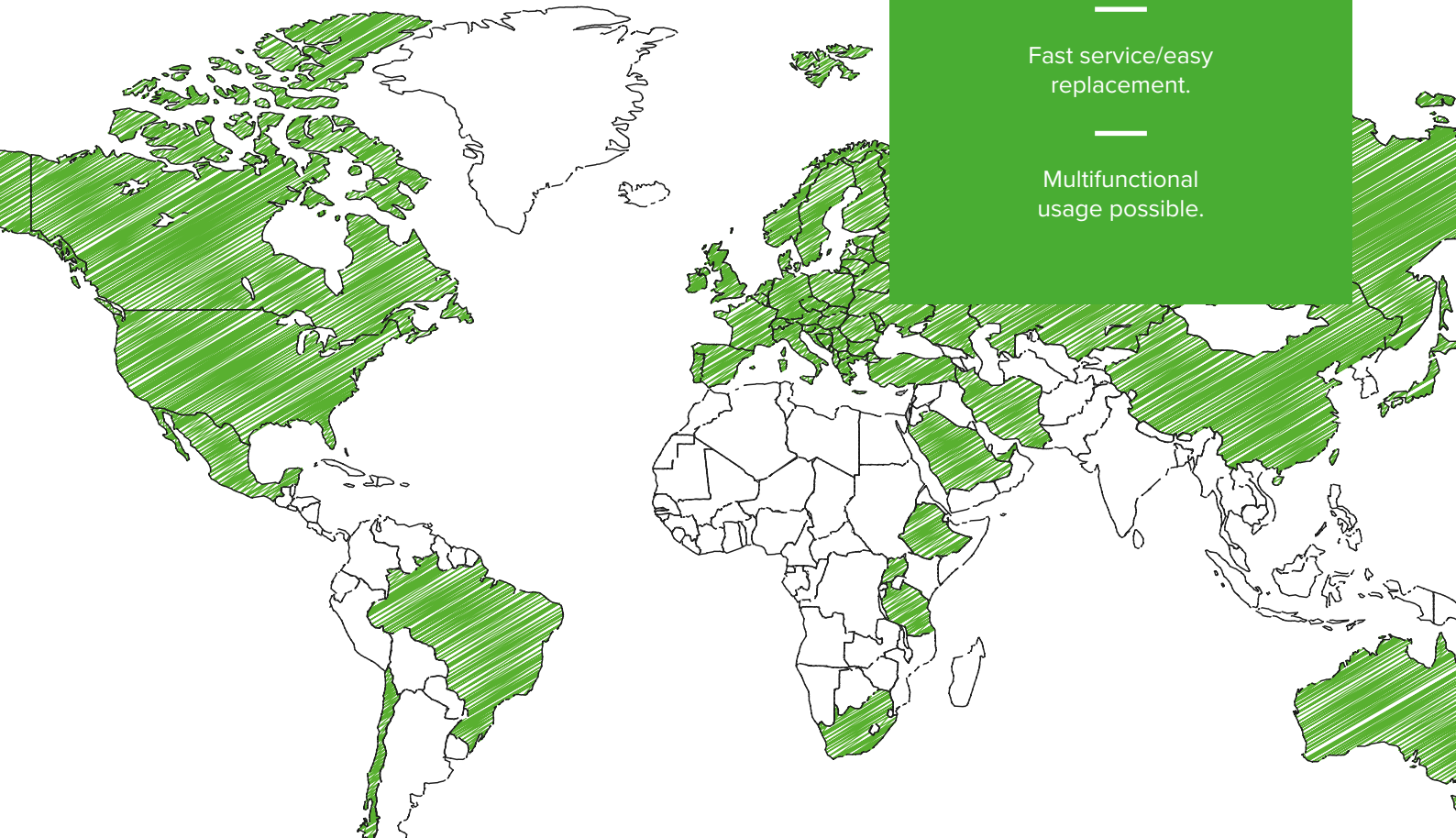
No fancy stuff, designed to
your needs.

Fast service/easy
replacement.

Multifunctional
usage possible.

The Netherlands & Canada

Our history leads back to the beginning of the twentieth century, four family generations around the Belgium-Dutch border have formed the basis of who we are today. Our solutions have ended up in more than 50 countries and we continue to expand. Recognition of our advanced systems in the fast-growing North American market led to our second home base in Canada in 2021. Regardless of location, we passionately strive to make it all work for you!



Humidity control and natural cooling

Every greenhouse is unique, different constructions, different crops, different climate control philosophies. One thing is common: more and more growers realize that a high pressure fog system is a key building block in an advanced greenhouse to control crop growth.

For optimum humidity or adiabatic cooling, with less CO₂ spoilage and lower water and energy consumption. But above all for a high yield and crop quality! To this end, we design the installation precisely for you, and we use self-developed and manufactured building blocks: nozzles, high pressure press fittings, the high pressure pump unit.





Highest quality installations & substantially more robust

As we generate fog with a droplet size between 3 and 5 μ (micron), the complete high pressure fog solution needs to be top notch. That goes from our own patented Pressfog design to clever filtration in the pump-unit, all to ensure the system remains clutter-free over time and doesn't have leakage. Therefore all parts are self-manufactured stainless steel 316. Therefore each system undergoes factory pre-delivery inspection and testing. To operate robust at day one as over time.

PRESSFOG®

THE ORIGINAL

By using our own patented Pressfog pipeline system we are capable of installing a project in a very short period of time. In addition, the Pressfog system offers a guaranteed leak-proof installation immediately after assembly. The couplings have a nominal working pressure of 80-120 bar and a burst pressure of 250 bar.



Advantages

- Fast assembly.
- Unique connection to atomiser.
- Operating pressure 100 bars.
- Pressure 250 bars.
- 100 % leak-proof.
- Own production.

The Nozzles

Our nozzles are fully removable and includes a check valve to prevent dripping. The nozzles have a special screw thread to be screwed into a stainless-steel press-fit coupling. A Viton O-ring seals the connection. This ensures the nozzles are easily demountable. The nozzles have an average droplet size of 3 - 5 μ m.



The Piping

The piping is made entirely of stainless steel 304 code EN10217-7, width of the nozzle-lines is Ø12mm. The end of each line is provided with a tap-valve for the possible rinsing of the circuit. These lines are suspended below the trellis by using a stainless-steel wire and lowering brackets.



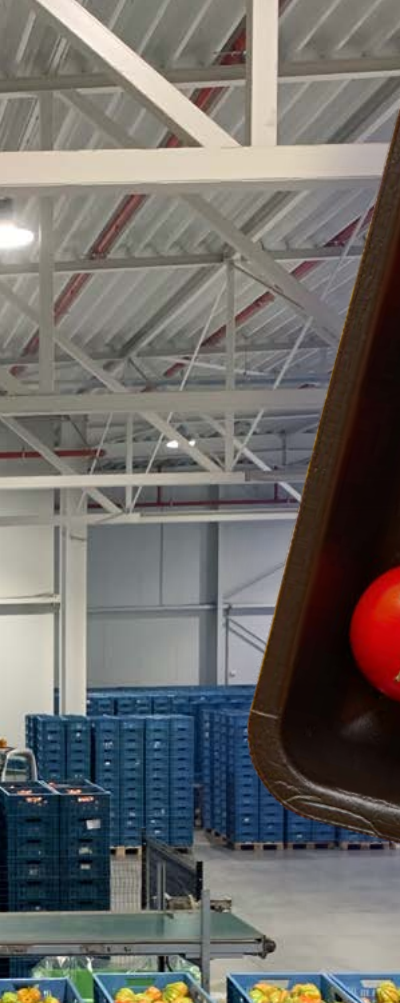


Hygiene solutions

Grip on hygiene and food safety in storage and processing areas for vegetables, fruit, flowers and plants via closed loop disinfection system

Bacteria, yeasts, fungi, and viruses can cause a great deal of inconvenience throughout the supply chain: from harvesting in the greenhouse to sale on the shelf. In doing so, it is almost inevitable that your vegetables, fruits, flowers, or plants will enter a storage and/or processing area.

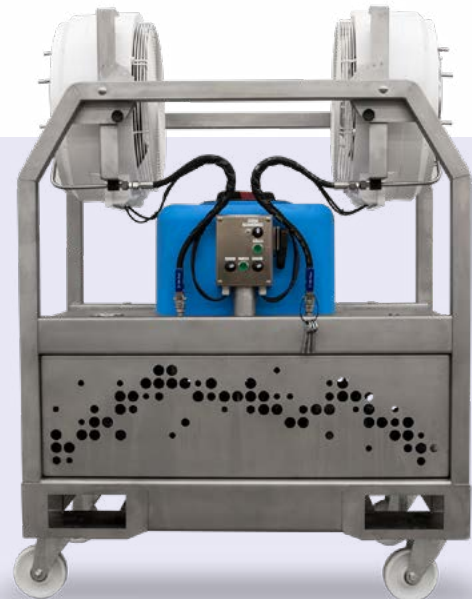




To ensure the hygiene and food safety at your company, we offer the combination of a dosing station DS-10 with multiple ventilation units FU-10's including hydrogen peroxide sensor with Cloud Portal datalogging functionality for transparency and traceability. In this way, a pre-set concentration of peroxide can be fogged very precisely, so that an optimal uptake into the air is achieved, which benefits the effectiveness of the disinfection process. In addition, occupational health and safety is ensured because the release of the room can be determined using the Cloud functionality.

ULV Mobile Unit

Some areas in your company are not suitable for disinfection with a stationary unit. The ULV Mobile Unit offers a solution for this because it can easily be moved to any desired area. This unit is versatile because it can be used for disinfection in stables, smaller departments in the greenhouse, cold stores and canteens. In addition, this unit is suitable for applications in pest control.





Other solutions

Without the intention to be complete, our high-pressure fogging solutions also have other applications such as odor and / or dust control in various industries. We also have users in tobacco processing; complete control technology for controlled humidity can be included.



Increasing the cooling capacity of condensers is also an option or having our unit(s) part of a fire management system is also possible. The common denominator is that we offer a solution for your specific situation where we let the high-pressure fogging pump system fulfill as many relevant functions as possible.



High-pressure fogging in barns

Besides within greenhouses, we have also been installing high-pressure fogging installations in barns for over 30 years. Originally mainly for humidity and adiabatic cooling of poultry, but increasingly also to keep pigs, dairy cows or other animals vital. Hundreds of stables in the Netherlands and Belgium are already familiar with this, made possible thanks to the high-quality and reliable MJ-Tech installations.

Only high-pressure fogging ensures a uniform and effective way of cooling

Pad-fan, roof sprinklers, low-medium pressure all consume more water and energy than truly 100 bar MJ-Tech high-pressure fogging. And even more is possible with our high pressure fogging pump unit; we can make the return on your investment even higher!

A large indoor greenhouse with rows of green plants and a misting system. The structure is made of metal and glass, with a complex network of pipes and wires overhead. The plants are arranged in neat rows, and the misting system is creating a fine spray of water over the foliage.

Contact

If you have any questions about our solutions or if you want more specific information, please contact us! Would you like to visit our ultra-modern production and assembly site in Etten-Leur? You are more than welcome! We look forward to a fruitful cooperation, hopefully we can be of value to you.

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