



Specialist in
modern horticulture

Directors Jan Zantingh and Pascal Janzen tell their stories...

Jan Zantingh

Due to the emergence of greenhouse horticulture in the area around Aalsmeer, the demand for heating systems was growing. My grandfather, who originally was a farrier by trade, started installing oil and gas heaters. His three sons subsequently expanded the company further, after which my father was the one to finally establish our company at the Heikamperweg in Asten-Heusden, and name it Cogas. In 1982, I started work as an employee of Cogas myself, and in the year 2000 I took over my father's responsibilities at the helm of the company, as the 3rd generation of the Zantingh family to do so.

Pascal Janzen

After having worked as an employee of Cogas for six years, I became a proud co-owner in 2011. In the years that followed, Jan and I have made significant steps forward, among which the expansion of our activities abroad. In 2015, we opened our office in South-Korea and lead the way by being one of the first companies

experimenting with cultivation without daylight, through our projects with our subsidiary C-Grow. This technology was still in its infancy back then.

Ready to face the future

We have developed a completely fresh and new corporate identity, which will also see us operating under the name **Cogas Climate Control**. Our brand new modern premises will house all our vital activities and will allow our more than 70 professionals to feel right at home. The location will remain the same, but our address will change to Heikamperweg 20. In short, we are ready to face the future. We will meet the demands that are created by the growth of our clients as well as by our own.

As a comprehensive specialist in modern horticulture, we are proud to facilitate this development with our fine team and clients. We are confident about the future.

Jan Zantingh and Pascal Janzen



WATER



HEATING



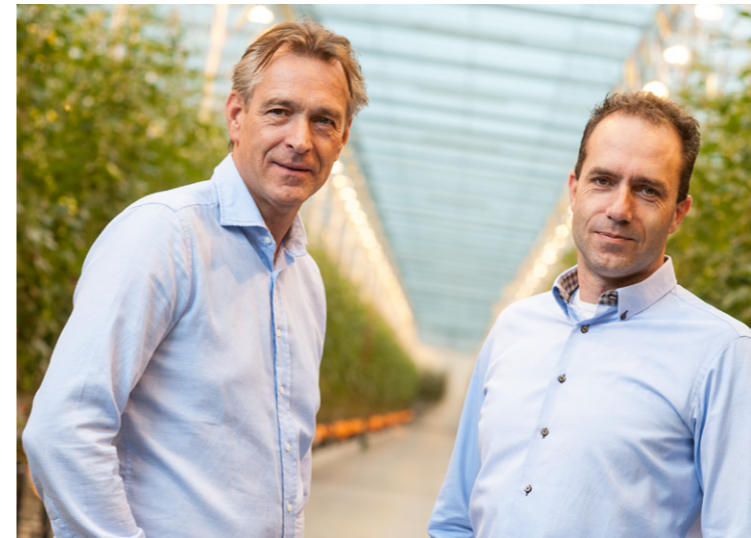
ELECTRICAL
ENGINEERING



LIGHTING



AIR TREATMENT



Service-oriented all-round installation company

Cogas is a service-oriented all-round installation company in the horticulture sector, as well as an officially recognised Priva dealer. Our years of experience make us adept at understanding exactly how the innovative and dynamic agricultural sector works. Our team consists only of green-fingered specialists; experts with extensive knowledge and passion when it comes to horticulture. We anticipate our clients' needs, offer professional advice and make optimal use of tomorrow's technology. All of this is directed to the aim of achieving top production rates!

Our focus is on quality and service orientation. We are the number one reliable partner for your entire technical installation, and you can count on comprehensive service: from design and installation to service and maintenance. Furthermore, we strive for long-term relationships with our clients as well as our suppliers. We combine all aspects under one roof to attain the best achievable result. And that is all that matters.



International character

Apart from serving horticulturalists in the Netherlands' Southeast, more and more international companies opt for Cogas as their all-round partner. You will often find us at work in Belgium, Germany, Switzerland, Austria and South-Korea. Our expertise is also often engaged for projects in the manufacturing sector, utilities and High-Tech City Farming.

Cogas operating areas

- Vegetable cultivation
- Fruit cultivation
- Floriculture
- Research locations
- Garden centres
- Climate cells





Water

Just like heating and automation, the right water management is essential when it comes to quality cultivation. Each cultivation requires a different dose of nutrients and a different amount of water to achieve optimal growth. Our specialists design and install tailor-made hydrological installations. We always keep abreast of the latest technological developments, and in doing so we always take cost efficiency, risk reduction and sustainability into account. Furthermore, we always closely monitor environmental and legal requirements. Designing and building the various water and substrate units will be done in house, under our direct management. This, for instance, includes our container fillers, Hydrojet and Hydroflex installations.



- Fully automated substrate units
- Priva Vialux HD-UV and MD-UV drain water decontamination units
- Heat-based drain water decontamination units
- Open and closed iron-removal installations
- Water basins and water tanks
- Liquid and solid fertiliser installations
- A and B automatic container fillers
- Ozone decontamination unit
- Fog and mist installations
- Reverse osmosis installations
- Ebb and flow systems
- Complete greenhouse installations
- Sand and carbon filtration installations



Your Cogas guarantee:

The entire hydrological installation can be maintained by our service department. Furthermore, we perform the inspections of water tanks that are required by insurers. Our service team is ready to help!



Heating

The right temperature and a homogenous climate are vital components within a greenhouse. When designing and fitting a heating system, the crop species is the most important starting point. Every crop species needs a specific type of heating. Furthermore, environmental requirements, (energy) efficiency and a practical setup all play an important part. This is exactly why optimally tailored advice is needed. Our installations are always custom-made to suit the specific needs of the client, and we make use of the latest technological advances. We always keep abreast of the latest changes in laws and regulations, and develop sustainable heating systems in all shapes and sizes. From boiler house installations with all possible fuels to various types of greenhouse heating systems.



- Boiler house installations
- Cogeneration installations (CHP)
- Gas turbines (biogas, ORC)
- Convection heaters
- Thermal energy storage tanks
- Greenhouse heating systems
- Ring/transport piping
- Pipe rail, façade and grow pipe heating
- Hoist-heating installations
- Low temperature heating
- District heating and distribution grids
- Soil-based thermal energy storage and geothermal heat projects
- Mobile boiler houses and asparagus heating



Your Cogas guarantee:

A reliable, custom-made installation with minimal maintenance costs. Our service department is ready to assist you during acute disturbances and to provide preventative maintenance of the installation.



Electrical engineering



A proper electrotechnical installation is of the utmost importance when it comes to ensuring that all installations within your company are functioning as they should. As an officially recognised Priva dealer, we install climate computers with all possible systems to perfectly manage climate. Depending on your technical installation and the desired climate, we completely tailor-make the climate computer to suit your requirements, allowing us to perfectly control and monitor the greenhouse's climate. Apart from, for instance, measuring temperature and humidity in the greenhouse, our specialists can integrate the processing of important management information. Monitoring growth performances and crop weight as well as keeping track of working hours and work processes; it's all possible! We are fully aware of the fact that every cultivation requires specific information that might be crucial for an optimal result. As an innovative partner, we always aim for the highest possible returns as well as a sustainable agricultural environment.

Priva Full Service provider
Priva is our loyal partner when it comes to delivering process automation for our technical installations. They offer the highest quality of products when it comes to climate control and process management. Since 1985, Cogas has been an officially recognised agricultural Priva dealer, and in 2014 we also received the certification for structures, so that we can also create all technical installations in climate cells.

As a high-quality Priva Full Service provider, we fully complement their products in a way that provides a custom-made solution for our clients. We possess all the required knowledge to fully control the Priva systems and build upon these in an optimally tailored fashion. We create the design ourselves, amend wherever this is necessary and install the system exactly to the client's wishes, so that all required processes and automations are achieved and monitored.

- Priva Connex, Compact and Compass process computers
- Priva workplace automations
- Priva recirculation fans
- Priva root optimiser
- Priva Office and Operator
- 400/230V installations and low voltage installations
- Grow light installations
- Emergency power units
- Temperature and humidity control boxes, CO₂ meters, plant cameras, pyrgometers, etc.



Your Cogas guarantee:
Climate control and process automation taken care of from beginning to end. Our service department is ready to help you solve disturbances, but will also provide the yearly updates required to keep your system up to date. We also take care of the inspections of your installation.



Lighting

As more and more growers want to bring their product to market all year around, the lighting in greenhouses has become an increasingly more important aspect. By means of supplying the right lighting in the greenhouse, optimal growth can also be achieved in the darker months of the year. The amount of light that a plant needs, differs with every cultivation. While tomatoes need a lot of light and radiation heat, lettuces usually only require light and actually fare badly when exposed to radiation heat.

We provide solutions with SON-T lamps as well as LED lighting and hybrid systems. Together with our skilled professionals, you will find the best solution that yields optimal returns. As a comprehensive specialist, we house a lot of knowledge and can create clever combinations that are also very interesting from a cost point of view. Combining the lighting with the right ventilation and operating system, might be one such smart solution.

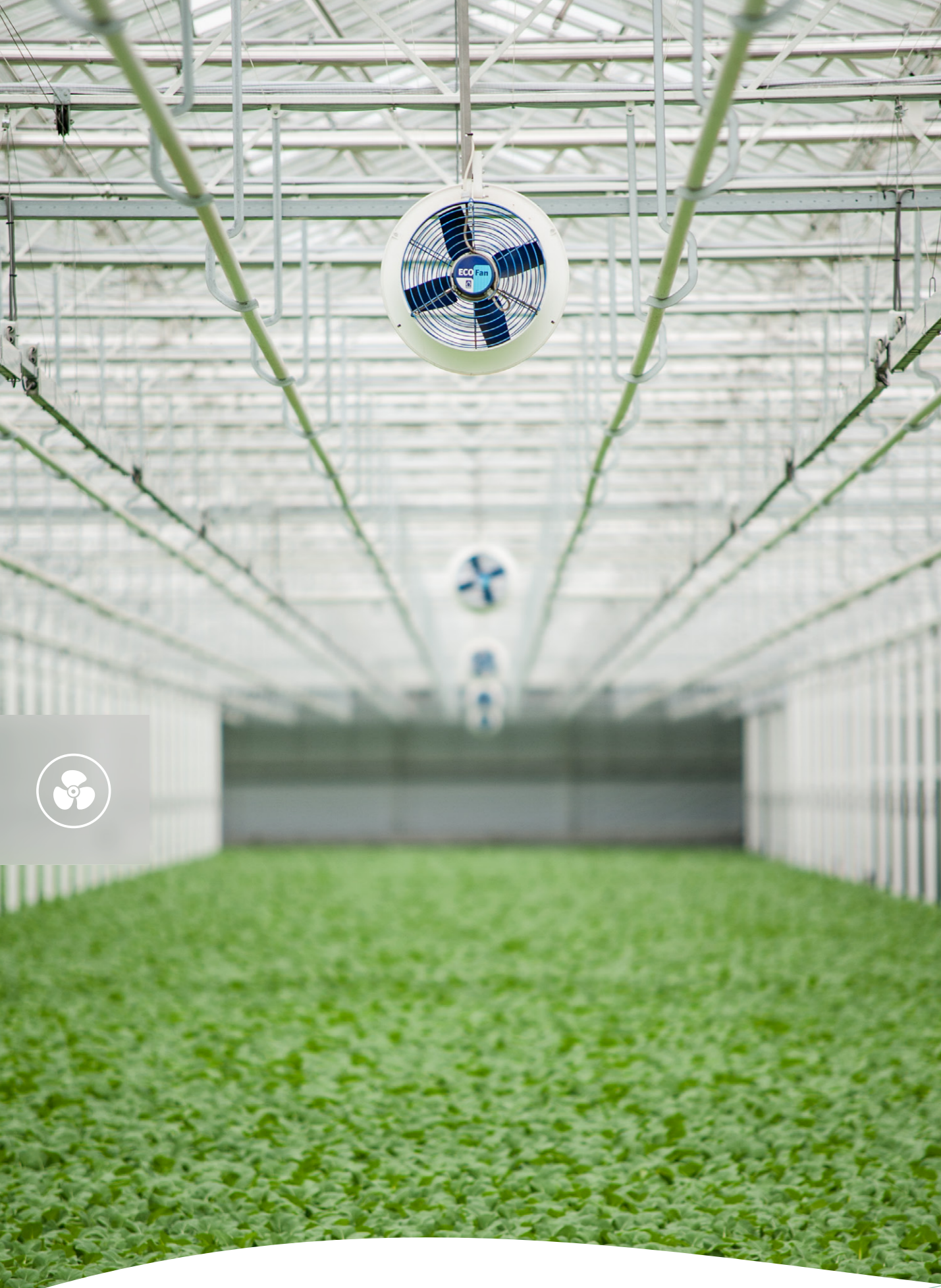


Horticultural partner of Philips

As the horticultural partner of Philips, we use their quality products as well as their knowledge and developments. This way, we can instantly use the latest, most innovative pieces of technology.

Your Cogas guarantee:

Lighting installations require proper maintenance to achieve the desired lighting level (μmol), and keep the installation safe and in good condition. Our service department takes care of all the inspections required by your insurer. The advantage of this arrangement, is that we can instantly rectify any deviations that we find.



Air treatment

In 2008, a new method of cultivation was on the rise; a technology that we at Cogas have mastered from the start. Controlling the moisture management in a greenhouse is crucial for optimal cultivation and ensures lower energy consumption. Furthermore, a homogenous climate is desirable for the further optimisation of growth. New insights arose regarding more effective insulation of the greenhouse by means of new screen strategies. These yielded a higher humidity in the greenhouse, which could cleverly be lowered by means of air treatment. This combination of quality insulation and smart air treatment techniques allows for an enormous reduction of energy costs.

CoVent: a luxurious manner of air treatment

Cogas is the leading specialist when it comes to air treatment technology. We were the first innovative party to develop a completely singular luxury quality product under the name of CoVent; this system heats outside air to cleverly let moisture dissipate. The main difference with other air treatment systems, is that we create over-pressure in order to create a homogenous climate throughout the entire greenhouse. This results in a significant cultivation quality improvement and a reduced disease burden. We are proud of this unique and sophisticated product!



Depending on your situation and needs, we can of course also provide other solutions for more effective air treatment.



Your Cogas guarantee:

Our service department is equipped with a range of measuring equipment to measure air capacities and air movements with. This might yield a very different outlook on a technical air problem. Rest assured; with us, maintenance for the various systems is in very capable hands.

Research

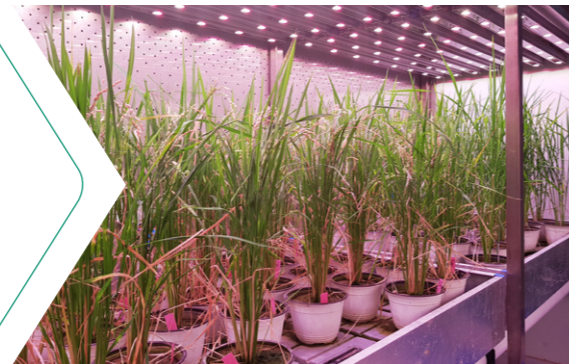
Our specialists are true craftspeople that are passionate about what they do. We remain close to the market and keep a close eye on the latest technologies and problems within the agricultural sector. Our focus is on innovation and quality improvement. We pay a lot of attention to service and aftersales, whereby we try to obtain as much feedback as possible, from which we can learn. This feedback is subsequently used to carry out improvements and to develop our existing products. Within our own research department, we continue to evaluate, design and test, to be able to produce

improved equipment for an optimal production of your crops.

Your Cogas guarantee:

Research is not only conducted on the premises of Cogas, however. Our steady partners like Priva, Philips and Zantingh are key players when it comes to innovation and research. Your feedback, the feedback of our clients, is also very valuable for our improvement of products.

PROJECT REALISATION and AFTER-SALES



FEEDBACK



EVALUATION and PRODUCT DEVELOPMENT



Service

If you work with Cogas, you can count on excellent service. Our specialised green-fingered service technicians know exactly what working in a dynamic sector like this one is like. We have skilled and specialised professionals for every specific type of climate installation. We understand that a small deviation might have significant consequences, and therefore we are there to help 24/7. You can recognise us by our red service buses. We can also enable remote viewing in the Priva system, allowing us to solve many problems directly.

Do you want to avoid unpleasant surprises? Let us create a completely tailored maintenance plan. After all, a properly maintained installation allows for more assurance and less disturbances.

If you work with Cogas, you can count on personal and direct contact, during office hours as well as outside them. Reach us during office hours at +31 (0) 493 671010. Reach us outside office hours at +31 (0) 478 551655. You can of course also reach us by e-mail via service@cogasclimatecontrol.com.





Cogas in South-Korea

For several years now, Cogas has developed various relationships in South-Korea. Modern horticulture is on the rise there; including a lot of scaling-up and professionalisation. By delivering Priva computer systems and even complete water units and electronic installations later on, we were deemed by South-Korean horticulturalists to be a reliable partner with quality aftersales.

In 2015, we opened an office there with local employees and our own warehouse. This allows us to deliver

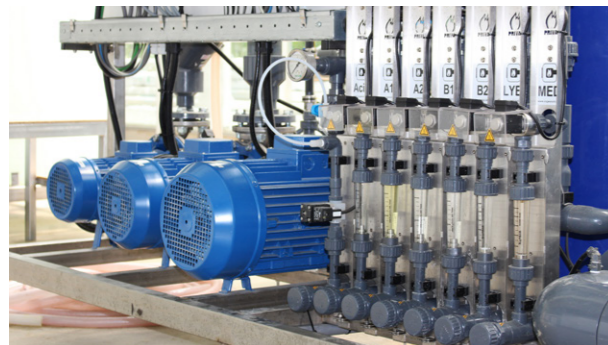
materials quickly, and we can take care of any engineering requirements on the spot. Thanks to our Dutch knowledge and expertise, we can deliver the same quality in South-Korea.

We are up for whatever project our clients might have in mind. Aside from various installations in greenhouses, we have also provided climate cells and a complete research department on the ninth floor of a university building. Furthermore, we are creating more and more turn-key projects in which we are not only providing

the installations, but are also delivering the entire greenhouse ready for operation.

Your Cogas guarantee:

We also maintain installations in South-Korea. This is often done remotely. We log onto the Priva system from Asten-Heusden and send out local people to solve the issue. If this is not an option, our service professionals take care of the issue on the spot.





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