

IIVO COMPACT



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Handled by:

Peter Hoppenbrouwer

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Customer name:

Zelena Kuca

Proposal for:

IIVOCompact

About Hoogendoorn



More than 55 years of experience

Innovation has been running through our genes for over 55 years. Our innovative and user-friendly automation solutions assist you in improving your greenhouse climate, by optimizing the growth factors according to the crops' needs. This increases crop yield and quality, while decreasing the use of resources and therefore costs.



A wealth of knowledge

It is important to us that our customers get the most out of their IIVO. This is why we place a high value on knowledge sharing. We offer you not only the tools, but also the know-how to maximize your greenhouse performance with efficient use of nutrients, water and energy. Thanks to our years of experience, we have a wealth of knowledge. We offer this knowledge through our customer portal Hoogendoorn Online, e-learning platform Hoogendoorn AcadeMe, training courses and our white papers.



Worldwide Partner network

Thanks to our local offices and extensive global partner network, there is always a Hoogendoorn expert nearby who speaks your language. These experts provide you with spare parts and reliable maintenance services, ensuring the continuity of your business. We tailor our products and services to your needs and provide local support, wherever your greenhouse is.

The rise of the digital

With science in our core, and technology in our DNA, we create solutions that speak the same language as your crop. So you can grow smarter. At the core are Data Driven Growing and the Plant Empowerment principles. IIVO is where nature and technology meet. The system has a crop-specific approach, ensuring its controls are completely customized to your plants' needs.





Configuration

This proposal consists of the required hardware and software.
The scope of delivery can be defined as follows:

General

		Quantity
031000	IIVO Compact basic software	1

Delivery proposal software:

Irrigation software

		Total	Unit 1					
031751	Irrigation unit - Pump & Flow measurement	1		1				
031815	Fertilizer supplier - EC control and monitoring	1		1				
031817	Acidity supplier - pH control and monitoring	1		1				
031804	Dosage pulsating and modulating valve set (6+2)	1		1				
031802	Dosage supplier (inter. with pump) + flow sync.	1		1				
031819	Valve group with strategy and releases	1		1				
031835	Irrigation valve	4		4				
031850	Silo management	1		1				
031228	Alarm - External Din	2		2				

Climate software

		Total		Zone 1	Zone 2			
031301	Climate (general)	2		1	1			
031175	Plant protection	2		1	1			
031302	Aspirator - Dry and wet bulb T + RH measurement	2		1	1			
031680	CO2 strategy - including 1 measurement	2		1	1			
031306	Heating Circuit – With retour measurement	4		2	2			
031323	Vent position - RPU	4		2	2			
031335	Screen - Time based	2		1	1			
031330	Recirculation Fan	2		1	1			
031228	Alarm - External Din	1		1	0			

Energy software

		Total		Energy 1				
031635	Energy manifold	1		1				
031640	CO2 manifold	1		1				
031655	CO2 Unit	1		1				
031685	Liquid CO2 - Tank	1		1				
031686	CO2 injector	1		1				
031228	Alarm - External Din	1		1				

Meteo software

		Quantity
031234	Meteo - Weather station software	1

Delivery proposal hardware:

General hardware

		Quantity	
720012	Control Station ICS-2a	1	
404230	Dinrail supply 90-260V/24V= 100W	1	
720040	UPSI-2406DP2	1	
720050	USB A/B cable 0,5m	1	
723200	IIVO Central Alarm Unit	1	
725000	IIVO Compact Cabinet (wall mounted)	1	

Irrigation hardware

		Total	Unit 1					
771500	Universal converter P+R	1		1				
641950	pH sensor	2		2				
602850	pH03 pH transmitter with display	2		2				
642045	Holder for pH-sensor	2		2				
642050	Care Kit pH	1		1				
602895	Inductive EC sensor CTI-500	2		2				
602896	Jumo T-piece CTI-500 40mm (DN32)	2		2				
642790	Silo pressure sensor Jumo Maera S26 0 - 10M	1		1				

Climate hardware

		Total		Zone 1	Zone 2			
740605	Aspirator - dry and wet bulb T+RH incl.transm.	2		1	1			
641420	Sensor for CO2 sensor EE872 0-2000 ppm	2		1	1			
641430	M12 connector CO2 sensor	2		1	1			
740650	Water temperature sensor including transmitter	8		4	4			

Energy hardware

		Total		Energy 1				
740660	Water temp.sensor incl. transm. with extender	2		2				

Meteo hardware

		Quantity	
720100	Weather mast connection box 2020	1	
634380	Stainless steel weather mast	1	
742200	Mounting bracket active wind sensor	1	
742110	Wind speed sensor	1	
742120	Wind direction sensor	1	
720120	Solari sensor	1	
636100	Precipitation detector (F-Type) Rain Monitor	1	
742209	Mounting plate pyranometer SR05 and precip. det.	1	
742297	Outdoor RH / T sensor E + E with radiation shield	1	

Bus couplers and terminals hardware

		Total						
001090	IIVO industrial Ethernet switch 4+2-Port FO MM-SC	1		1				
001100	Industrial Smart switch Phoenix Contact FL2206-2FX	1		1				
721000	Q100 Bus coupler Wago PFC100 (excl. case)	1		1				
721130	612 Voltage supply terminal (230V ac/dc)	1		1				
721110	600 Bus end terminal	1		1				
721010	402 4x Digital input 24Vdc	1		1				
721020	638 2x Counter terminal 24Vdc	1		1				
721080	455 4x Analog input 4-20mA	6		6				
721070	453 4x Analogue input 0-20mA	4		4				
721050	527 4x Digital output 24Vac/dc	11		11				



Price overview hardware & software

The price for the configuration is: €

29,127.80



IIVO Connect price

The annual price for IIVO Connect is: €

1,000.00

IIVO Connect will be invoiced 1 year after commissioning.

Terms of supply

Prices	: Excluding VAT
Price validity	: The offered price will be valid for 1 month.
Delivery	: A minimum of 6 weeks after receipt of written order.
Delivery	: Delivered At Place (DAP...), Incoterms 2020
Payment	: requires immediate payment*

**subject to the current credit limit applied by Hoogendoorn. Hoogendoorn also reserves the right to change the stated payment conditions at any time).*

General terms and conditions:

The Hoogendoorn Growth Management 'General terms and conditions for sales and delivery – Part A' apply to this proposal and to all our deliveries. A copy of these terms can be accessed by clicking on the hyperlink below (displayed in blue and underlined).

[\[General Terms and Conditions for Sales and Delivery – Part A\]](#)

This proposal excludes (unless specifically mentioned in the proposal):

- Labour;
- Electrical control panels, cabling, wiring, power supply;
- Spare parts, sensors and any materials and works;
- Commissioning of the system;
- Travel and accommodation expenses;
- Specific training and education other than those provided by Hoogendoorn Growth Management.

IIVO Connect terms & conditions:

Hoogendoorn Growth Management has drawn up the document "General Terms and Conditions for Sales and Delivery – Part B" for the use of the IIVO Connect services.

A copy of these terms can be accessed by clicking on the hyperlink provided below on pages 5 and 6 (displayed in blue and underlined).

[\[General Terms and Conditions for Sales and Delivery – Part B – Page 5&6\]](#)

By accepting this proposal, or any amended version thereof, you acknowledge that you have received these terms, have reviewed them in full, and agree to be bound by them.

Ready

Build for today...and tomorrow.

With online updates, new software is directly available. Your IIVO system is continuously up-to-date and with the special developed IIVO application, IIVO is accessible anywhere on all devices.

IIVO grows with your business

The modular industrial hardware is completely scalable. This guarantees precision and reliability. You are able to operate all your greenhouse processes with only one device.

A complex operation, made easy

With IIVO you easily manage the most complex greenhouse projects. IIVO provides you with a clear overview of all greenhouse processes. Whether it is a greenhouse or vertical, indoor or urban farming project

Knowledge is plant power

Crop recipes

Crop recipes allows you to save a group of settings in the Crop Recipes library. Combine the saved crop recipes and include transitions periods, to create your plants' crop strategy

Crop strategy

Create your own cultivation strategy using graphical settings based on set points, periods and influences. This provides you of thorough insights in your cultivation strategies



Set

Greenhouse Powerhouse

Stop reacting, start predicting

The advanced IIVO climate computer offers you numerous insights with which you can easily react proactively to expected changes in external conditions. IIVO offers an integrated Weather Forecast, based on your greenhouse' location (as part of IIVO Connect).

Self-learning

The system uses past experiences to decide how strong it will react on current measurements and automatically chooses a better correction value.

Precise irrigation

With IIVO's drag-and-drop functionality, it is possible to set your irrigation strategies. Initiate your irrigation cycle per valve based on time, radiation, slab weight, water content and drain.

Flexible irrigation

Thanks to the flexibility of our industrial hardware, all types of irrigation units can be connected to the IIVO.

Intelligent energy control

All energy sources such as boilers, co-generation, biomass and thermal-, solar- and wind energy are easily integrated.



Grow

Plant Empowerment principles

Plant Empowerment is a unique cultivation method that leads to higher productions and better quality. The features of IIVO are based on the Plant Empowerment principles.

Who knows, grows

Data Driven Growing is a combination of algorithms based on greenhouse generated data and plant physiology. Enhance your production, lower your resource usage (e.g. water and energy) and increase your profit.

Service everywhere, anytime

Our customer portal Hoogendoorn Online is where all knowledge, service and support come together. Next to these online services, you can always contact our 24/7 helpdesk.

Quality guaranteed

Our HortiQ, ISO 9001 and ISO 27001 certifications guarantee the safety and reliability of IIVO, and ensures all your data is well protected, providing you peace of mind.

**Grow more,
With less**

