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OCL
OPTIMUM CLIMATE LIGHTING



COMPLETE FIXTURES



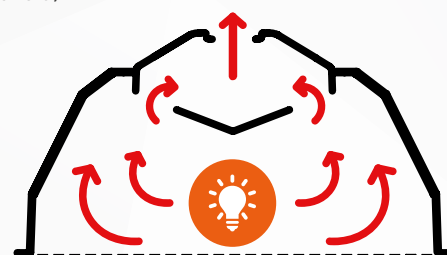
OCL Lighting provides high quality lighting by integrating experience, creative sensibility and innovation in our products. By combining pragmatism, perfectionism and high technical standards in the design and layout work, we are able to reach truly unique results.

The OCL Lighting systems are the new industrial standard in professional high output fixtures. Light quality is a major focal point in the industry and the OCL X series has been designed to fulfil that specific need. The systems support both HPS and metal halide lamps. The OCL double ended (DE) HPS lamps are proven to be extremely high in PAR output, with a broader spectrum than traditional HPS lamps and only a 5% loss of light at 10.000 hours in operation. All our ballasts come standard with PowerControl™, StartSmart™ and dimming feature.

The OCL X series are the next level in professional fixtures, with the ability for central control with the OCL controllers. With OCL Lighting systems **you are in control of the light!**

REASONS FOR CHOOSING OCL

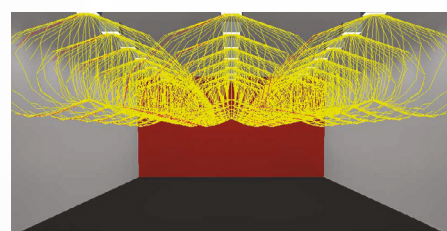
- Strong, heavy duty housing, double protection by conformal coating and cooling colloid, ensuring optimal functioning in various environments
- Lowest operating temperature and noise in their class
- Easy to exchange, V53 hammer tone/concave 96% reflective aluminum reflector absolutely free of interference colors
- Ceramic industrial grade receptacles
- Free of electromagnetic interference
- Suitable for high frequency HPS 400V horticultural lamps
- Compatible with other industrial DE bulbs
- Extended lifetime: up to 95% light output performance after 1 year
- Full control of the light output in every step of the plant life cycle
- PowerControl™, StartSmart™ and low voltage protection diagnostics



**25% LESS
RADIATION HEAT**

FEATURES

- Professional adjustable ultra-high frequency lighting system
- OCL 400v DE EL lamp included
- Incredibly high output and even spread (A++ energy label)
- Suitable for high pressure sodium and metal halide lamps
- 5-phase dimming
- V53 hammer tone/concave, 96% reflectance, brightened, anodized and PVD-coated AL 99.99 reflector
- Suitable for the OCL DLC-1.1 and several other controllers
- Plug & play installation
- 25% less radiation heat
- Beam angle 140°
- CE certified



BEAM ANGLE 140°

DIGITAL LIGHTING CONTROLLER DLC-1.1



The OCL X series, with extremely powerful and higher PAR output than traditional fixtures, ask for a smart controller. That is why OCL designed the world's smartest and yet easy to operate lighting controller.

All sensors (TEMP/RH/CO2) can be calibrated, it detects sensor failures and when a connection is not set-up properly a warning will automatically be displayed.

The OCL DLC 1.1 Smart Lighting and CO2 Controller includes a built-in clock and back-up battery with a 30-year lifetime.

The DLC 1.1 simulates natural growing conditions with the "RISE/FALL" option, allowing plants to gradually warm up and cool down.

The "AUTO-SAVE TEMP" option senses when indoor temperatures are getting too high and responds by automatically dimming the connected lamps, thereby reducing or even avoiding environmental stress and crop damage.

The "SHUTDOWN-TEMP" is an extra safety feature that will shut down all lighting in the room when the temperature is not reducing after the "Auto-Save Temp" has set in. Causes could be a malfunctioning extraction or climate control unit.

A manual resetting of the "SHUTDOWN TEMP" is then required to restart the system.

Unlike other brands, the OCL DLC 1.1 controller enables a combination of different types of ballasts. It is therefore possible to connect, say, an OCL XXL 1.000 Watt fixture with a 315 watt CDM fixture on one and the same controller.

With the "CO2 SET ppm" option, the controller not only manages the lights but the CO2 generators and cool CO2 installations can be controlled also.

When using an OCL DLC1.1 controller, no additional switch board is required.

With the "AUX BOX", to be ordered separately, it is possible to connect a dehumidifier, extra ventilation or heating. The "AUX BOX" is equipped with a RJ12 UTP connection and a 16A relay for 3.5KW controlled power.

NEVER BEFORE WAS IT SO SIMPLE TO CREATE THE RIGHT CLIMATE FOR YOUR PLANTS!

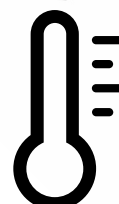
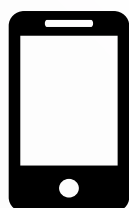


ICC

INDUSTRIAL CLIMATE CONTROLLER



ICC - 1.1



INDUSTRIAL CLIMATE CONTROLLER ICC 1.1 PLC

OCL wants to be the trend setter in providing better and easier solutions for our customers. Therefore, our Research & Development department plays an essential role in developing new and improving existing products. Both developments in the professional market as the increased legalisation of the medical CBD-market ask for a new and improved, industrial CE certified climate controller: the ICC 1.1.

This ICC 1.1 is a professional controller, build from top end industrial components, with a simple and clear operating system and an easy set up according to the Plug & Play principle. The higher/lower buttons on the switches give access to several options: CO₂, humidity, temperature and light strength. Connecting equipment is a matter of plugging in and the systems is ready to use (Plug & Play), with safe Schukos to connect a CO₂-heater, a humidifier or dehumidifier or a pressure regulator.

With a standard UTP cable the ballasts can be easily linked so they can operate as one group. The XLR-connector is especially designed for the recommended SenseAir CO₂/RH/TEMP-sensor with datalog function. The PLC allows remote controlling of the growing area – even on a mobile phone – when connected by way of an UTP cable to a router.

tSENSE is an advanced and versatile 3-in-1 transmitter designed for installation in the air-conditioned zone. It measures CO₂ concentration, temperature and humidity in the ambient air accurately without the requirement for additional compensation – true read. Simple warnings are given with orange and red read-outs when values are close to or over limits settings.

It is possible – with an optional cable – to use the "User interface program", to log meter measurements and to control meter functions. It is also possible to save and restore complete meter configurations to/from files.

WHY THE ICC 1.1 CONTROLLER IS THE BEST CHOICE:

- Simple analogue Grasslin clock to set the day/night cycle
- Only high end industrial components
- Stable climate control
- Maintenance free
- Plug & Play
- Simple to operate
- Clear display
- Temperature control in 5 steps
- Controls all aspects of climate (light, temperature, humidity, CO₂)
- Possible to combine different types of OCL ballasts
- No switch board required
- Can be remotely controlled
- Has phase short circuit protection
- With defect climate/airco system, controller will go in secure mode
- Shutdown temperature mode

FEATURES:

- Siemens logo PLC
- Siemens extensions module
- Siemens powering
- Hager B16 main switch
- Grasslin analogue clock
- Schneider 20A switches
- Senseair CO₂, RH, TEMP-sensor with datalog function
- IDE-control panel
- UTP-connector for OCL-ballasts Plug & Play
- XLR-connector for SenseAir sensor with 5 metre cable



HIGHEST
★ 1200 μmol ★
OUTPUT

OCL 600W – X SERIE

- Voltage: 230V-240V ($\pm 10\%$)
- Current consumption: 2.7A (100%)
- Rated Power: 621W (100%)
- Power Factor: 0.99
- THD: -10%
- Frequency: 50-60Hz
- Input Connection: IEC C14
- 5-fase dimming (300-660W)
- Operating Temp: ($^{\circ}\text{C}$): 0-40 $^{\circ}\text{C}$
- Case Temp: ($^{\circ}\text{C}$): 70 $^{\circ}\text{C}$
- Certification: CE
- External dim: OCL controller analog protocol (<10V)
- External dim connector: RJ45-connector build in 2x

OCL 750W – XL SERIE

- Voltage: 230V-240V ($\pm 10\%$)
- Current consumption: 3.4A (100%)
- Rated Power: 785W (100%)
- Power Factor: 0.99
- THD: -10%
- Frequency: 50-60Hz
- Input Connection: IEC C14
- 5-fase dimming (400-825W)
- Operating Temp: ($^{\circ}\text{C}$): 0-40 $^{\circ}\text{C}$
- Case Temp: ($^{\circ}\text{C}$): 70 $^{\circ}\text{C}$
- Certification: CE
- External dim: OCL controller analog protocol (<10V)
- External dim connector: RJ45-connector build in 2x



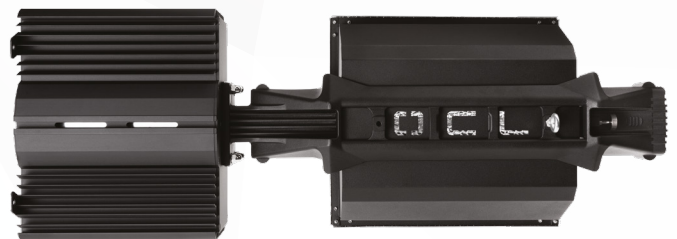
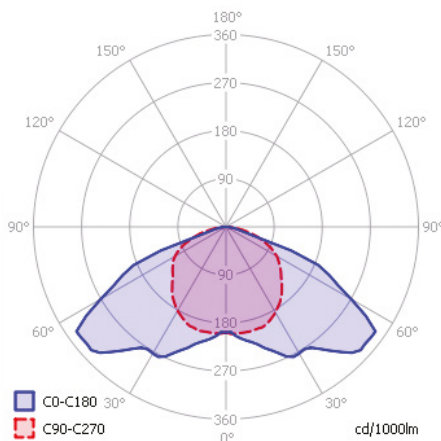
HIGHEST
★ 1500 μmol ★
OUTPUT



HIGHEST
★ 2100 μmol ★
OUTPUT

OCL 1000W – XXL SERIE

- Voltage: 230V-240V ($\pm 10\%$)
- Current consumption: 4.4A (100%)
- Rated Power: 1048W (100%)
- Power Factor: 0.99
- THD: -10%
- Frequency: 50-60Hz
- Input Connection: IEC C14
- 5-fase dimming (600-1150W)
- Operating Temp: ($^{\circ}\text{C}$): 0-40 $^{\circ}\text{C}$
- Case Temp: ($^{\circ}\text{C}$): 70 $^{\circ}\text{C}$
- Certification: CE
- External dim: OCL controller analog protocol (<10V)
- External dim connector: RJ45-connector build in 2x



LAMPS DOUBLE ENDED 400V EL

OCL lamps qualify as one of the highest output double ended lamps on the market and have an incredible depreciation rate of 5% at 10.000 hours. OCL double ended lamps feature premium quartz glass for enhanced spectrum and penetration of your plants which results in higher quality and yield. OCL lamps contain enhanced UV-spectra. Exercise caution when working around any HID lamp that contains UV, always wear protective glasses.

2K GREENPOWER - HPS

De OCL 2K GreenPower HPS is optimal for all stages of growth.

- Lamp color: 2K
- Lamp style: Double Ended
- Lamp type: Hogedruk Natrium



4K DAYLIGHTPOWER - MH

OCL 4K Daylight Power Metal Halide is a pulse-start full spectrum light, used for all stages of growth and bloom.

- Lamp color: 4K
- Lamp style: Double Ended
- Lamp type: Metal Halide

6K BLUEPOWER - MH

OCL 6K Blue Power Metal Halide is the best spectrum used for vegetative growth to encourage shorter node spacing and bushier plants.

- Lamp color: 6K
- Lamp style: Double Ended
- Lamp type: Metal Halide



10K FINALPOWER - MH

OCL 10K Final Power Metal Halide is used for the last 7 – 14 days of bloom to allow for better ripening and finishing.

- Lamp color: 10K
- Lamp style: Double Ended
- Lamp type: Metal Halide

COMPLETE FIXTURES

10000600 OCL X SERIES - 600WATT DE



10000750 OCL XL SERIES - 750WATT DE

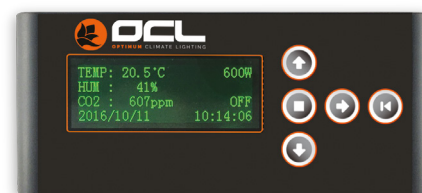


10001000 OCL XXL SERIES - 1000WATT DE



OCL CONTROLLER - ACCESSOIRES

10001001 OCL CONTROLLER DLC - 1.1
INCL TEMP/RH SENSOR 5M



10001002 INDUSTRIAL CLIMATE CONTROLLER ICC 1.1 PLC



10011002 TEMPERATURE SENSOR FOR CONTROLLER 10M



10011003 HUMIDITY (RH) SENSOR FOR CONTROLLER 10M



10011004 CO2 SENSOR FOR CONTROLLER



10011005 AUX BOX - WITH 16A RELAIS



10011006 DIGITAL INTERLINK CABLE 0.6M

10011020 DIGITAL INTERLINK CABLE 2.0M

10011035 DIGITAL INTERLINK CABLE 3.5M

10011050 DIGITAL INTERLINK CABLE 5.0M

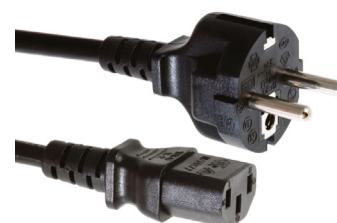


10315200 POWERCORD 3X1.5mm 2M UK

10315500 POWERCORD 3X1.5mm 5M EU

10315750 POWERCORD 3X1.5mm 7.5M EU

10315501 POWERCORD 3X1.5mm 5M SWISS



LAMPS DOUBLE ENDED 400V EL

2K GREENPOWER - HPS

De OCL 2K GreenPower HPS is optimal for all stages of growth.

11020600	OCL 600W - 2K DOUBLE ENDED
11020750	OCL 750W - 2K DOUBLE ENDED
11021000	OCL 1000W - 2K DOUBLE ENDED



4K DAYLIGHTPOWER - MH

OCL 4K Daylight Power Metal Halide is a pulse-start full spectrum light, used for all stages of growth and bloom.

11040600	OCL 600W - 4K DOUBLE ENDED
11040750	OCL 750W - 4K DOUBLE ENDED
11041000	OCL 1000W - 4K DOUBLE ENDED



6K BLUEPOWER - MH

OCL 6K Blue Power Metal Halide is the best spectrum used for vegetative growth to encourage shorter node spacing and bushier plants.

11060600	OCL 600W - 6K DOUBLE ENDED
11060750	OCL 750W - 6K DOUBLE ENDED
11061000	OCL 1000W - 6K DOUBLE ENDED



10K FINALPOWER - MH

OCL 10K Final Power Metal Halide is used for the last 7 – 14 days of bloom to allow for better ripening and finishing.

11100600	OCL 600W - 10K DOUBLE ENDED
11100750	OCL 750W - 10K DOUBLE ENDED
11101000	OCL 1000W - 10K DOUBLE ENDED



BULB 230V E40

12020600 RALIGHT - 600 WATT GREENPOWER 230V E40



VSA

13000250 VOSSLOH SCHWABE - 250 WATT
 13000400 VOSSLOH SCHWABE - 400 WATT
 13000600 VOSSLOH SCHWABE - 600 WATT
 13001000 VOSSLOH SCHWABE - 1000 WATT



REFLECTOR

14000004 EURO REFLECTOR - 0.4MM



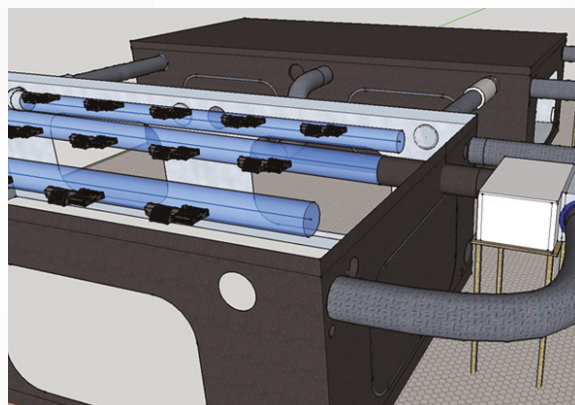
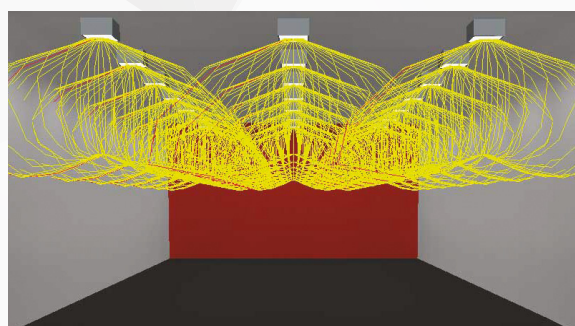
14100004 EURO REFLECTOR HAMMER - 0.4MM





FEATURES & BENEFITS

- OCR Growtents are made of 1680D Mylar!
- Special designed for CO₂ growing!
- Very strong and robust 25mm frame
- Can be subjected to loads of up to 120 kg!
- Extra high tent height of 2.40 metres
- Several doors
- Can be linked to other OCR tents
- Water-tight, seamless, rigid 0.6mm PVC foil floor
- Extra holes for water and electricity
- Double sleeves for light-tight sealing
- 350mm ventilation holes
- Rubber feet for the support poles
- Extremely suitable in combination with climate systems
- Strong zippers
- The frame was designed according to a lighting scheme with OCL XXL Series Professional 1000 watt double-ended luminaires
- First 1+1=3 tent, increasing your climate system's capacity by 50%



OCR-CLIMATEROOMS



20150150

OCR 150 - XXL SERIES

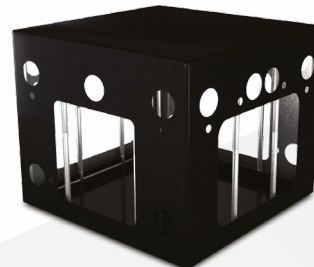
- Dimensions: 1.5 X 1.5 X 2.4M
- Canvas thickness: 1680D
- Frame: Ø 25mm
- Number of doors: 3
- Air hose hole: Ø 350mm
- Number of holes for air hose: 4
- Cable hole: Ø 10mm
- Number of cable holes: 2



20150300

OCR 300L - XXL SERIES

- Dimensions: 1.5 X 3.0 X 2.4M
- Canvas thickness: 1680D
- Frame: Ø 25mm
- Number of doors: 4
- Air hose hole: Ø 350mm
- Number of holes for air hose: 14
- Cable hole: Ø 10mm
- Number of cable holes: 12
- Linkable



20300300

OCR 300 - XXL SERIES

- Dimensions: 3.0 X 3.0 X 2.4M
- Canvas thickness: 1680D
- Frame: Ø 25mm
- Number of doors: 4
- Air hose hole: Ø 350mm
- Number of holes for air hose: 16
- Cable hole: Ø 10mm
- Number of cable holes: 12
- Linkable



20300450

OCR 450 - XXL SERIES

- Dimensions: 3.0 X 4.5 X 2.4M
- Canvas thickness: 1680D
- Frame: Ø 25mm
- Number of doors: 4
- Air hose hole: Ø 350mm
- Number of holes for air hose: 18
- Cable hole: Ø 10mm
- Number of cable holes: 12
- Linkable



20300600

OCR 600 - XXL SERIES

- Dimensions: 3.0 X 6.0 X 2.4M
- Canvas thickness: 1680D
- Frame: Ø 25mm
- Number of doors: 4
- Air hose hole: Ø 350mm
- Number of holes for air hose: 18
- Cable hole: Ø 10mm
- Number of cable holes: 12
- Linkable



20450900

OCR 900 - XXL SERIES

- Dimensions: 4.5 X 9.0 X 2.4m
- Canvas thickness: 1680D
- Frame: Ø 25mm
- Number of doors: 6
- Air hose hole: Ø 350mm
- Number of holes for air hose: 20
- Cable hole: Ø 10mm
- Number of cable holes: 16

ralight

HOLLAND



QUALITY
★ **PROVEN** ★
RELIABILITY



CLIMATE FANS

30000118 RALIGHT - WALL FAN 18"
30000120 RALIGHT - WALL FAN 20"



30000212 RALIGHT - FLOOR FAN 12"
30000218 RALIGHT - FLOOR FAN 18"
30000220 RALIGHT - FLOOR FAN 20"



30000318 RALIGHT - STAND FAN 18"
30000320 RALIGHT - STAND FAN 20"



VARIAC TRAFO

31000002 VARIAC - 2A
31000004 VARIAC - 4A



AIR DISTRIBUTION HOSE



Developments at (OCR) never stop and that's why we have now introduced new air distribution hoses.

Why another new air distribution hose? There are already so many around. That's true, but our air distribution hoses work differently from regular air socks. Regular air socks are made of fabric, giving them little pores through which the air is blown in a 360° range, i.e. all around, exposing it to a lot of counter pressures.

This makes it almost impossible to feel that air is coming out at all. The air descends so slowly that what should have been cool air has warmed up again before reaching the crop. Regular air socks clog up within a matter of weeks, reducing their capacity, possibly even to the extent that no air can get in at all. And the low air speed requires the use of fans to circulate the surplus stagnant air.

WHAT IS DIFFERENT ABOUT OUR AIR DISTRIBUTION HOSES?

Our air distribution hoses are made of high-quality, antistatic, transparent LPDE foil with little round holes punched into it along a 120° area, i.e. 1/3 of a circle. The air can therefore be aimed more precisely and blown out at a higher speed.

This is based on calculations, so that you can make sure your air distribution hose complies with the right specifications to provide you with the capacity you need.

YOUR BENEFITS:

1. Targeted air distribution.
2. The transparent foil lets light through.
3. Cannot clog up.
4. Higher air speed: no fans needed.
5. Always the right capacity thanks to proper calculations.

42016005	160MM - 5M	(120 m ³ p/m, max lenght 6,5m)
42020005	200MM - 5M	(160 m ³ p/m, max lenght 8m)
42025005	250MM - 5M	(200 m ³ p/m, max lenght 10m)
42025010	250MM - 10M	(200 m ³ p/m, max lenght 10m)
42031505	315MM - 5M	(240 m ³ p/m, max lenght 15m)
42031510	315MM - 10M	(240 m ³ p/m, max lenght 15m)
42031515	315MM - 15M	(240 m ³ p/m, max lenght 15m)
42035005	350MM - 5M	(300 m ³ p/m, max lenght 15m)
42035010	350MM - 10M	(300 m ³ p/m, max lenght 15m)
42035015	350MM - 15M	(300 m ³ p/m, max lenght 15m)



HortiPlantCare



It is a well-known fact that using CO₂ in cultivation results in improved photosynthesis, which in turn means that plants have more energy for growing and flowering. However, obtaining a good yield is always a challenge, even for the most experienced of growers, as there are so many factors that can have an effect on the final result.

If CO₂ is added to the air, the natural reaction in plants is a narrowing of the stomatal apertures. The effect of this is a decrease in transpiration. If, in addition, the temperature is too high, then the stomata will narrow even further or even close up completely, with transpiration ceasing altogether as the ultimate consequence. However, due to its increased energy supply, the plant needs an increased number of nutrients. Add to this a plant's need for cooling when temperatures are too high and it becomes clear just why plants increase internal sap flow by absorbing more water. If the water in the sap flow cannot be evaporated due

to the stomata being closed, then flowers are literally pushed apart by internal water pressure, resulting in wide-open or exploded flower heads.

It is therefore important to keep the CO₂ supply and temperature well under control. However, it is just as important to prevent sap flows from increasing too much. This is best achieved by adding three HortiPlantCare products to the feed water, namely FloraForce, HuminCare and TotalCare.

International research has shown that silicon (the substance that is made available to plants when FloraForce is used), when combined with the humates in HuminCare, leads to a significantly improved absorption of essential nutrients and trace elements.

The humates also ensure that these substances are then transported around plants more effectively. Improved absorption and transport mean that it is possible for sap flows to be reduced (compared to when no silicon or humates are added), while plants continue to develop well.

Silicon also strengthens cell walls, improving the ability of plants to withstand heat, UV radiation and thermal radiation, while humates work from the inside to improve resistance to stress. When used on leaves, TotalCare forms a thin protective layer, which provides plants with additional protection against drought.

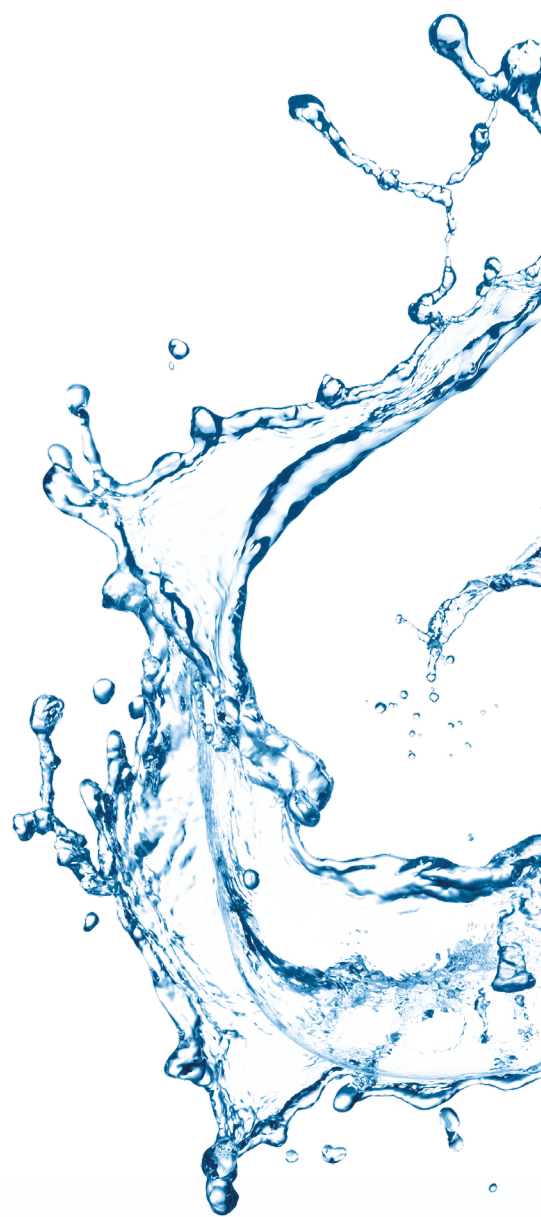
When TotalCare is added to feed water, it makes a positive contribution to overall plant resistance and healthy, balanced growth. Combining TotalCare in feed water with TotalCare sprayed onto leaves results in a clearly improved resistance to heat, UV radiation and thermal radiation, even when professional 400-volt light fittings, such as the OCL Lighting X-Series are used.

FloraForce, HuminCare and TotalCare are therefore indispensable when growing plants using CO₂. But when used in combination with good fertilisers and a booster, these certified products guarantee improved yields, both in terms of volume and flavour, under standard growing conditions too, irrespective of the growing medium and irrigation system used. When the products are used correctly, wide-open flower heads are a thing of the past. And as the products are highly concentrated, they are an inexpensive solution.

SO WHY CHOOSE HORTIPLANTCARE?

- For a balanced combination of products, with the highest yields and the best flavour, even under the most difficult and most challenging conditions.
- Because only the best natural ingredients are used in ultra-concentrated, topquality products, making them inexpensive to use.
- For healthy plants and satisfied customers!

ULTIMATE CHOICE OF PROFESSIONALS



HPC - MAIN FERTILISERS

HPC Flora Vega the unique one-component growth feed. This one-component feed is made up of top-quality fertilisers. It is the only fertiliser your plants will need. The feed is suitable for soil use.

50110100	FLORAVEGA - 1L
50110500	FLORAVEGA - 5L
50112000	FLORAVEGA - 20L



HPC Flora Flores the unique one-component flower feed. This one-component feed is made up of top-quality fertilisers. It is the only fertiliser your plants will need. The feed is suitable for soil use.

50120100	FLORAFLORES - 1L
50120500	FLORAFLORES - 5L
50122000	FLORAFLORES - 20L



HPC Flora Nova A+B mineral substrate combination fertiliser NPK 8-0-0 + 10 CA. This fertiliser is to be used in combination with FloraNova "B". This combination contains all the minerals and trace elements needed for speeding up flowering and ensuring lavish flowers.

50130500	FLORANOVA A&B - 5L
50132000	FLORANOVA A&B - 20L



HPC PK 13-14 is a unique flower booster for plants in the flowering phase. PK 13-14 contains phosphates and potassium for strong flowering!

50140100	PK 13+14 - 1L
50140500	PK 13+14 - 5L
50142000	PK 13+14 - 20L



HORTIPLANTCARE - SPECIALITY BOOSTERS

HPC N Booster is made up entirely of natural amino acids, the building blocks for the proteins, chlorophyll, natural growth hormones (auxins) and other auxiliary substances plants need. The nitrogen in the amino acids is immediately absorbed by the plant, meaning that no energy-consuming processes of synthesis are required for conversion.

50200050	N-BOOSTER - 500ML
50200100	N-BOOSTER - 1L
50200500	N-BOOSTER - 5L



HPC - SPECIALITY BOOSTERS

HPC P Booster is a powerful organo-mineral flowering stimulator and contains phosphorous, nitrogen and amino acids. While flowering, plants need additional phosphorous. Through the combined action with the amino acids in HPC P Booster, the phosphorous in the product is absorbed more quickly.

50210050	P-BOOSTER - 500ML
50210100	P-BOOSTER - 1L
50210500	P-BOOSTER - 5L



HPC K Booster is a powerful plant maturation stimulator that provides plants with the extra potassium they need during the final flowering phase. This results in even bigger yields of better quality, with enhanced flavours and aromas. The potassium is provided to the plants in the form of a unique complex containing special amino acids, which the plant can immediately absorb.

50220050	K-BOOSTER - 500ML
50220100	K-BOOSTER - 1L
50220500	K-BOOSTER - 5L



HPC CaMg Booster is a calcium- and magnesium-based fertiliser with laevorotatory amino acids. It is easily absorbed and visibly stimulates photosynthesis and chlorophyll production, while also improving nutrient transportation and strengthening plants.

50230050	CA/MG BOOSTER - 500ML
50230100	CA/MG BOOSTER - 1L
50230500	CA/MG BOOSTER - 5L



HPC Top Booster is a complete mix of high-quality organic substances that are quickly absorbed and which play an important role in the flowering process. In addition to major nutrients and trace elements, the product contains the natural hormones, seaweed extracts, polysaccharides and vitamins plants need. This makes Top Booster a combination of a flowering stimulator and a stimulator for plant maturation.

50240050	TOP BOOSTER - 500ML
50240100	TOP BOOSTER - 1L
50240500	TOP BOOSTER - 5L



HPC Explode Powder is the secret behind every successful grower. This sparkling bud expander is the absolute best in the field of flowering stimulators. It gives visible results and works brilliantly with all base nutrients. It is packed in handy sachets, is simple to use and has been extensively tested by our research team

50240075	EXPLODE POWDER - 75 GRAM
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HPC - PLANTCARE

HPC TotalCare is important for plant growth and health. In addition, the unique ingredients in TotalCare improve the living conditions for effective microorganisms and attract earthworms when plants are grown outdoors.

50300050	TOTALCARE 4-IN-1 - 500ML
50300100	TOTALCARE 4-IN-1 - 1L
50300500	TOTALCARE 4-IN-1 - 5L



HPC HuminCare is a unique, very highly concentrated and environmentally friendly humic and fulvic extract. A patented production process guarantees the product's unique composition and quality. During the production process, HuminCare is enriched with microelements. HuminCare is important for successful plant development and growth as it ensures that the right quantities of essential nutrients are transported to cells.

50310050	HUMINCARE - 500ML
50310100	HUMINCARE - 1L
50310500	HUMINCARE - 5L



HPC FloraForce Regulator (SILICIUM) is important for plant growth and sturdiness, for improving the absorption of mineral nutrients and for improving resistance to biotic and abiotic stress factors. Silicon and boron, contained in FloraForce, are also involved in the energy transfer process in plants. Additional silicon is deposited around the source of the infection at the points where moulds penetrate plants. This results in a physical barrier against further harmful effects.

50320050	FLORAFORCE - 500ML
50320100	FLORAFORCE - 1L
50320500	FLORAFORCE - 5L



HPC ZymCare is a natural enzyme preparation in liquid form, containing 15 different enzymes. These enzymes ensure that old root remains decay, defending plants against pathogens. ZymCare also contains vitamins that promote root growth and increase root absorption capacity.

50330100	ZYMCARE - 1L
50330500	ZYMCARE - 5L



HPC GX-Force The most important biological components in G-Force Garlic-Ginger extract are Allicin and Gingerolen. Allicin is an organosulfur compound (thiosulfinate) with strong antioxidant effects and other beneficial effects. Without a doubt the Allicin in the garlic plant is the first line of defence against insects and fungi. Gingerol is the most important component from the ginger rhizome, which is a complex mixture of phenol compounds responsible for the sharpness of the ginger

50340100	GX FORCE - 1L
50340500	GX FORCE - 5L



UNIVERSAL FERTILIZERS



MADE IN
HOLLAND

ECO-SHINE MAIN FERTILIZERS

START A+B is the unique starter nutrient for your plants and can be used on soil and inert substrates such as rockwool, mapito, clay pebble, pumice stone, etc .

- 50400100 START A&B - 1L
- 50400500 START A&B - 5L



GROWTH A+B is the nutrient used during the growth phase, also extremely suitable for the parent plant, use growth nutrient for production on soil, and inert substrates such as rockwool, mapito, clay pebble, pumice stone etc.

- 50410100 GROWTH A&B - 1L
- 50410500 GROWTH A&B - 5L
- 50412000 GROWTH A&B - 20L



BLOOM A+B is the nutrient used during the bloom phase, for use on soil and inert substrates such as rockwool, mapito, clay pebble, pumice stone, etc

- 50420100 BLOOM A&B - 1L
- 50420500 BLOOM A&B - 5L
- 50422000 BLOOM A&B - 20L



OSMOSIS GROWTH A+B is the nutrient used during the growth phase, also extremely suitable for the parent plant, use growth nutrient for production on soil, and inert substrates such as rockwool, mapito, clay pebble, pumice stone etc.

- 50430500 OSMOSIS GROWTH A&B - 5L
- 50432000 OSMOSIS GROWTH A&B - 20L



OSMOSIS BLOOM A+B is the nutrient used during the bloom phase, for use on soil and inert substrates such as rockwool, mapito, clay pebble, pumice stone, etc

- 50440500 OSMOSIS BLOOM A&B - 5L
- 50442000 OSMOSIS BLOOM A&B - 20L



ECO-SHINE ORGANIC FERTILIZERS

BIO GROWTH is the organic nutrient used during the growth phase, also extremely suitable for the parent plant, use growth nutrient for production on soil

- 50450050 BIO GROWTH - 500ML
- 50450100 BIO GROWTH - 1L



BIO BLOOM is the organic nutrient used during the bloom phase, for use on soil

- 50460050 BIO BLOOM - 500ML
- 50460100 BIO BLOOM - 1L



BIO PK BOOSTER is the organic nutrient used during the bloom phase of your plants. During the bloom phase your green-leaf plant needs a lot of phosphates and potassium.

- 50500050 BIO PK BOOSTER - 500ML
- 50500100 BIO PK BOOSTER - 1L



ECO-SHINE - PLANT ENHANCERS

SPRAY removes all plant pathogenic bacteria and fungi from the plant and creates a protective layer of wax around the leaves.

- 50510125 SPRAY - 125ML
- 50510250 SPRAY - 250ML



ROOTCARE is a unique organic root stimulator that is mainly intended to stimulate root growth in the plant's first weeks and in so doing makes a good basis for the uptake of sufficient water and nutrients and their transport to the various parts of the plant.

- 50510100 ROOTCARE - 1L
- 50510500 ROOTCARE - 5L



PLANT ENHANCERS

CROPCANDY is a unique organic bloom stimulator as with CropCandy 40 % more chlorophyll is produced in the leaf. The 40 % extra chlorophyll means that the plant is able to make more sugars, these sugars are broken down in the night and the energy released is used by the plant to make new and larger flowers.

50520100 CROPCANDY - 1L

50520500 CROPCANDY - 5L



ENZYM PLUS is a natural enzyme preparation in liquid form, containing 15 different enzymes. These enzymes ensure that old root remains decay, defending plants against pathogens. Enzym plus also contains vitamins that promote root growth and increase root absorption capacity.

50530100 ENZYM PLUS - 1L

50530500 ENZYM PLUS - 5L



HUMIC is a unique organic, very highly concentrated and environmentally friendly humic and fulvic extract. A patented production process guarantees the product's unique composition and quality. During the production process, Humic is enriched with microelements. Humic is important for successful plant development and growth as it ensures that the right quantities of essential nutrients are transported to cells

50540100 HUMIC - 1L

50540500 HUMIC - 5L



SILICA Regulator (SILICIUM) is important for plant growth and sturdiness, for improving the absorption of mineral nutrients and for improving resistance to biotic and abiotic stress factors. Silicon and boron, contained in Silica Regulator, are also involved in the energy transfer process in plants. Additional silicon is deposited around the source of the infection at the points where moulds penetrate plants. This results in a physical barrier against further harmful effects.

50550100 SILICA (REGULATOR) - 1L

50550500 SILICA (REGULATOR) - 5L



PK BOOSTER ENRICHED is used during the bloom phase of your plants. During the bloom phase your green-leaf plant needs a lot of phosphates and potassium. The plant "feels" the phosphates present in the substrate and uses these to produce the necessary amount of bloom hormones.

50560100 PK BOOSTER ENRICHED - 1L

50560500 PK BOOSTER ENRICHED - 5L



PH REGULATORS

PH- GROWTH is used to reduce nutrient solutions during the growth phase of your plants.
PH- BLOOM is used to reduce the pH in nutrient solutions during the bloom phase of your plants. PH+ is used to raise the pH in nutrient solutions during the growth and bloom phase of your plants

50570100	PH- GROWTH 1L
50580100	PH-BLOOM 1L
50590100	PH + 1L



TOOLS

60003043	ODOR TIGHT IRON BAG - 30CM X 43CM
60004556	ODOR TIGHT IRON BAG - 45CM X 56CM
60005691	ODOR TIGHT IRON BAG - 56CM X 91CM
60091130	ODOR TIGHT IRON BAG - 91CM X 130CM



60115000	DIGITAL SCALE - UP TO 15KG PER GRAM ACCURATELY
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60854545	SMALL SPORT BAG - 80 X 45 X 45CM
61205050	BIG SPORT BAG - 120 X 50 X 50CM



62000060	SEAL MACHINE - 60CM
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