

# PRODUCT INFORMATION

**CANNA**  
The solution for growth and bloom



## 1. GROWING INDOORS

When growing indoors you need a suitable space to do so. You can design your own room or buy a growing tent. Make sure the space is easy to monitor. The benefit of an indoor environment is that you can better control the circumstances your plant is facing. Which are many...

## 2. LIGHT

Light is essential to plant life. Plants turn light into sugars, which they need for growth and bloom. Indoor crops have to put up with artificial light.

The quality, colour (wavelength) and the amount of light determine the shape of a plant. A plant 'knows', based on the day length, when to produce flowering hormones and flowers. It is up to the grower to judge what his plants need at which particular moment, but your local specialist can assist with that.



## 3. TEMPERATURE

A plant can survive freezing cold and heat waves, but this is obviously not ideal to survive and thrive. Ideally a plant grows between 18° C and 28° C. The heat of the lights will raise the temperature very easily so make sure there are also ways to cool down your environment when needed.

### TIP!

There is a lot of equipment to help you grow your plant. Your local specialist can give you proper advice.



## 4. AIR

Plants need fresh moving air (CO<sub>2</sub>) in combination with water and light for the realization of photosynthesis. In order to grow indoors, your plant needs a fresh air intake, an exhaust fan and a fan to circulate air. The last one can also help preventing pests and diseases.

## 5. SUBSTRATE

By determine what system you will be growing in, you also choose a growing medium. There are different options to choose from like potting soil, coco or soilless growing. Every growing medium has its benefits and downsides. CANNA has designed nutrients for every growing medium which will be further explained in this booklet.



## 6. WATER

Water quality can vary from region to region and it influences your growth. Water can be hard or soft, contain high amounts of dissolved minerals or chloride for example. When possible it is very useful to test your water quality. There are many thoughts on watering your plants. Visit our website for some useful articles about watering.

### TIP!

1 m<sup>2</sup> of bench top, covered with leaves, will use 4-6 liters of water a day.



## 7. NUTRITION

Like all living things a plant also requires fuel to grow. The CANNA range of products is designed to give your plants exactly what it needs to achieve great results.

# CANNA WELCOMES YOU

THE ROOTS OF CANNA GO ALL THE WAY BACK TO THE 1980'S. THE TWO FOUNDERS OF CANNA STARTED SHARING THEIR KNOWLEDGE BY PROVIDING INFORMATION ON THE CULTIVATION OF FAST GROWING PLANTS. THEY STARTED SHARING THEIR OWN EXPERIENCE WITH THE 'INFO-COURIERS' WHICH WERE A HUGE SUCCESS AMONG GROWERS. BECAUSE OF THE INCREASING DEMAND FOR A NUTRIENT SOLUTION MEETING THEIR HIGH STANDARDS, THEY SOON BEGAN DEVELOPING A MIX FOR GROWING ON SOIL, SOMEWHERE IN AN OLD BARN IN THE SOUTH OF THE NETHERLANDS ●

Their experience taught them that the key to helping growers was optimizing convenience and making easy-to-use products. After a lot of experimentation and testing they launched their first mineral plant nutrients in 1993.

The market soon expanded to other countries and by the end of the century CANNA had acquired a solid position in the world market. From the very beginning the key to CANNA's success has always been the sharing of knowledge and experience and the quality of the products. CANNA's passionate scientists put years of extensive research in each of the plant nutrients, which are specially designed to seamlessly join the different CANNA substrates.

CANNA was a pioneer with the development of a successful coco substrate. The COCO range, CANNA's flagship, was introduced in 1995. After years of research CANNA had succeeded in creating a coco substrate with coco nutrients for fast growing plants.

Continuing to work from the perspective of the grower, and based on high quality standards and ease-of-use, CANNA finally had developed four product ranges for cultivating plants: TERRA, COCO, SUBSTRA and AQUA. Since 1996 CANNA started developing a range of additives for growers who want to grow with great precision and later BIOCANNA to meet the organic and vegan standards.

### WHY CANNA?

- Lots of growing experience backed by in-house science and research
- Five research centers worldwide with 40 dedicated researchers
- Consistent and high standard quality with complete in-house production facilities
- Every range of nutrients joins seamlessly with the corresponding substrate

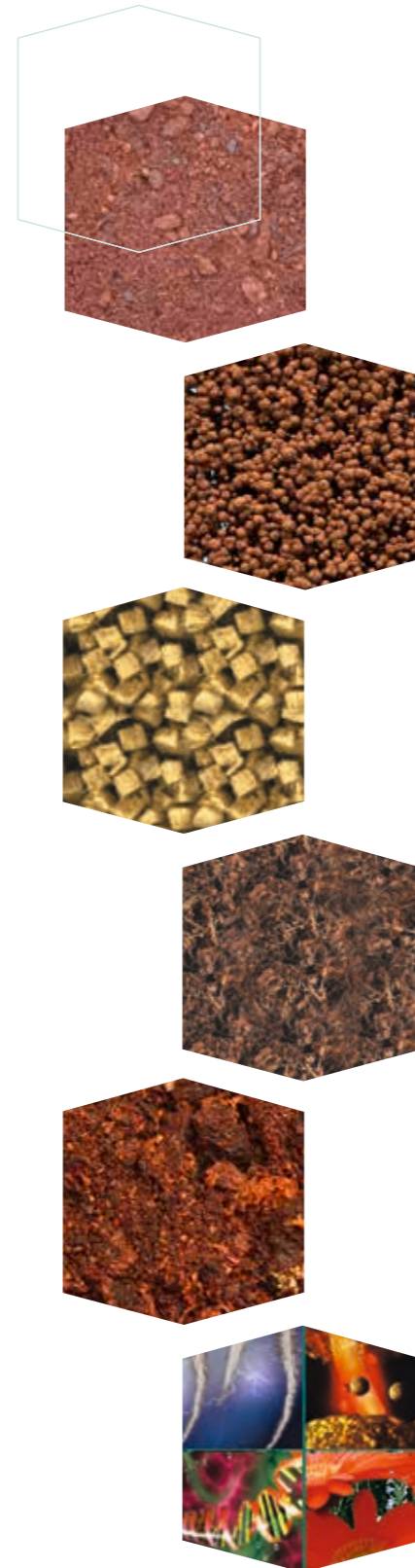
CANNA OFFERS DIFFERENT PRODUCT RANGES FOR MULTIPLE WAYS OF GROWING. EACH PRODUCT RANGE IS SPECIFICALLY DESIGNED FOR THE CHARACTERISTICS OF THE GROWING MEDIUM. THERE ARE DIFFERENT WAYS TO RAISE YOUR CROPS. YOU CAN GROW ON COCO, AQUA, SUBSTRA OR ON TERRA. EVERY GROWING MEDIUM REQUIRES A DIFFERENT APPROACH ●

Depending on your specific needs and circumstances you will choose your growing method. No matter the method you choose, CANNA has the right nutrients to meet your demands.

We've got your back when it comes to maximizing the yield of your crops. In this booklet we'll guide you through the different growing methods and nutrients.

CANNA offers five product ranges of nutrients specially designed for the different kinds of substrates. These ranges are:

- CANNA TERRA
- CANNA SUBSTRA
- CANNA AQUA
- CANNA COCO
- BIOCANNA



# WHAT'S YOUR PREFERRED WAY OF GROWING?

## GROWING ON SOIL AND POTTING MIXES

GROWING ON SOIL IS EASY AND IDEAL FOR INEXPERIENCED GROWERS. THE CANNA TERRA LINE OF NUTRIENTS AND SUBSTRATES PROVIDES HIGH VALUE MINERAL NUTRIENTS FOR HEALTHY PLANTS AND GREAT YIELDS, INDOOR AND OUTDOOR ●

## GROWING ON A RECIRCULATING SYSTEM

THE CANNA AQUA RANGE IS DEVELOPED FOR GROWING ON WATER IN A RECIRCULATING SYSTEM. THE ROOTS OF THE PLANTS ARE IN DIRECT CONTACT WITH THE NUTRIENTS AND THE DRAINAGE WATER IS REUSED ●

## GROWING ON WATER

THE RUN-TO-WASTE SYSTEM IS ANOTHER METHOD FOR GROWING ON WATER. THE DRAINAGE WATER DOES NOT RETURN TO THE NUTRIENT TANK, BUT DRAINS AWAY ●

## CANNA COCO: GROWING ON COCO COIR

GROWING ON COCO COIR IS A GREAT WAY TO GROW YOUR PLANTS. THE UNIQUE STRUCTURE PROVIDES AN IDEAL ENVIRONMENT FOR HEALTHY ROOT DEVELOPMENT AND IS GREAT FOR THE INEXPERIENCED AS WELL AS THE ADVANCED GROWER ●

## GROWING 100% ORGANIC ON SOIL

THE BIOCANNA SUBSTRATES AND NUTRIENTS ARE COMPOSED OF 100% PLANT BASED ELEMENTS. THE COMPONENTS ARE MONITORED FROM THE SELECTION TO THE PRODUCTION PROCESS TO ENSURE A HIGH VEGAN QUALITY ●

## GET THE MOST OUT OF YOUR PLANTS

THE CANNA ADDITIVES ARE PRODUCTS THAT ARE USED ALONGSIDE THE MAIN NUTRIENTS TO OPTIMISE YOUR RESULTS. EACH PRODUCT SERVES A SPECIFIC GOAL, LIKE ENHANCING ROOT DEVELOPMENT OR PLANT METABOLISM ●

# TERRA

## CANNA TERRA: GROWING ON SOIL AND POTTING MIXES

GROWING ON SOIL IS AN IDEAL SOLUTION FOR BOTH THE EXPERIENCED AND INEXPERIENCED GROWER. HOWEVER, IT CAN BE DIFFICULT TO HAVE PRECISE CONTROL OF THE DOSAGE. BY USING SPECIALLY DEVELOPED POTTING MIXES YOU ELIMINATE THESE DIFFICULTIES. THE BASIS OF ANY GOOD POTTING MIX IS PEAT. PEAT MAINLY COMES FROM AREAS IN WHICH THE RAINWATER HAS A LOW MINERAL CONTENT AND THEREFORE CONTAINS FEW NUTRIENTS. BECAUSE OF THIS IT IS NECESSARY TO ADD ALL THE NUTRIENTS THAT ARE NEEDED FOR GROWTH TO THE POTTING MIX. THIS CAN BE ACHIEVED BY USING SPECIALLY PREPARED NUTRIENTS ●

CANNA TERRA offers a range of well balanced nutrients that contain all the elements needed in a form that can be absorbed directly ensuring that an optimal intake is guaranteed right from the start of cultivation.

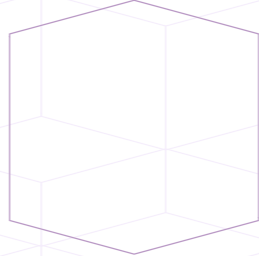
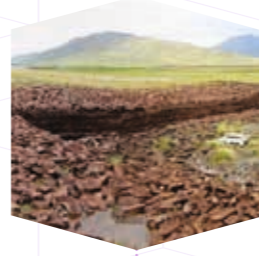
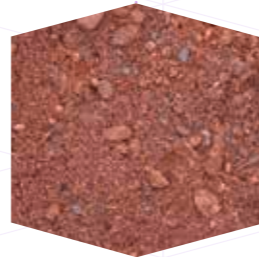
CANNA TERRA nutrients have been developed to give good results with every type of potting mix but to achieve even better results we offer our own CANNA Terra Professional Plus potting mix. This potting mix was developed to fulfill the desire of creating the purest soil mix possible and to obtain the best effects with CANNA TERRA nutrients.

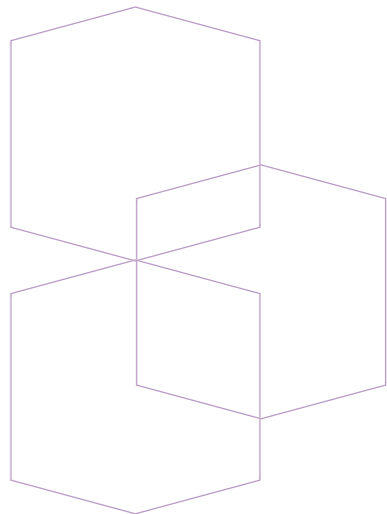
### Advantages of growing on TERRA

- User friendly, also for inexperienced growers
- For growing indoor and outdoor
- Good for soil enrichment
- Pre-fertilized with high grade potting mix fertilizers

Not all potting mixes are suitable for fast growing crops. The three most important factors are structure, pre-fertilization and pH value.

The structure of a potting mix is responsible for the available water and air in the mix. Air is important for a healthy root environment and necessary for an active absorption of water and nutrients. CANNA TERRA substrates have a very homogeneous structure and are composed of high quality to ensure a healthy root zone.





#### EC of water

EC stands for *Electrical Conductivity*. It is the potential of water to conduct electricity. This value is used as a guide to measure the mineral salts in the water and is used as an indication of nutrient content.



## CANNA TERRA GROW SCHEDULE

THE GROW SCHEDULE ON THE LEFT PAGE WILL SERVE AS A GUIDE TO HELP YOU GROW YOUR PLANTS AND ACHIEVE A BIG HARVEST. THE SCHEDULE WILL GUIDE YOU THROUGH THE IMPORTANT FACTORS FOR THE OPTIMAL YIELD, LIKE WATER TYPE, NUTRIENTS, ADDITIVES, AND ELECTRIC CONDUCTIVITY (EC) OF THE WATER ●

Other important factors for growing are light, temperature, humidity and airflow in the growing area. For more information, please check the FAQ page on our website or contact your reseller.

#### Personalized Grow Guide

Do you grow your crops in less common circumstances? Or do you have specific wishes? A personalized Grow Guide gives you more advanced insights in how to grow your plants. Find your personalized Grow Guide with the QR code below.

#### Mixing nutrients

(see order & dosage in the Grow Schedule)

- Measure the water temperature (18-22 °C)
- Measure the EC of the water
- Add 80% of the desired dosage of nutrients to the water in the nutrient tank, stir well
- Add additives
- Measure the EC in total
- Correct the EC with nutrients, the other 20%, to the ideal EC value (strict)
- Measure the pH
- Correct the pH

#### The life cycle of your plants

- Start / rooting (3 –5 days) Prepare your substrate
- Growing phase I Your plant develops in volume
- Growing phase II Your plants slow down growing in height after the appearance of the formation of flowers
- Blooming phase I The flowers or fruits develop in length, growth in height achieved
- Blooming phase II Development of the volume of flowers or fruit
- Blooming phase III Development of the mass of flowers or fruit
- Blooming phase IV Flowers or fruit ripening process

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# TERRA GROW SCHEDULE

Cultivation period in weeks	Light / Day in hours	Terra Vega ml/10 litres	Terra Flores ml/10 litres	RHIZOTONIC XP ml/10 litres	CANNAZYM ml/10 litres	CANNABOOST ml/10 litres	PK 13/14 ml/10 litres	EC+ in mS/cm	GROWTH	
									Start / rooting (3 - 5 days) - Aqua substrate wet.	Vegetative phase I - Plants develop in volume.
1	18	15 - 35	-	40	-	-	-	0.4 - 0.8	1	1.2 - 1.6
0 - 3 <sup>1</sup>	18	30 - 50	-	20	25	-	-	0.7 - 1.1	2 - 3	1.5 - 1.9
2 - 4 <sup>2</sup>	12	35 - 55	-	20	25	20 <sup>3</sup>	-	0.9 - 1.3	1	1.0 - 1.4
2 - 3	12	-	50 - 70	5	25	20 - 40	-	1.2 - 1.6	2 - 3	0.0
1	12	-	50 - 70	5	25	20 - 40	15	1.5 - 1.9	1 - 2	
2 - 3	12	-	40 - 60	5	25	20 - 40	-	1.0 - 1.4		
1 - 2	10 - 12 <sup>3</sup>	-	-	-	25 - 50 <sup>4</sup>	20 - 40	-	0.0		

#### FLOWERING

- **Generative Period I** - Flowers or fruits develop in length. Growth in height achieved.
- **Generative period II** - Development of the volume (breadth) of flowers or fruit.
- **Generative Period III** - Development of the mass (weight) of flowers or fruit.
- **Generative Period IV** - Flowers or fruit ripening process.

#### GROWTH

- **Start / rooting (3 - 5 days)** - Aqua substrate wet.
- **Vegetative phase I** - Plants develop in volume.
- **Vegetative phase II** - Up to growth stagnation after fructification or appearance of the formation of flowers.

- 1 This period varies depending on the species and number of plants per m<sup>2</sup>. Mother plants remain in this phase until the end (6 - 12 months).
- 2 The changeover from 18 to 12 hours varies depending on the variety. The rule of thumb is to change after 2 weeks.
- 3 Reduce hours of light if ripening goes too fast. Watch out for increasing relative humidity.
- 4 Double CANNAZYM dosage to 50 ml/10 litres. If substrate is reused, 20 ml/10 litres standard. Increase to a maximum of 40 ml/10 litres for extra flowering power.

EC: EC+ value is based in mS/cm when EC water = 0.0 at 25°C, pH 6.0. Add the EC of the tap water that is used to the recommended ECI. The EC total in the example is with tap water with an EC of 0.4.

pH: Recommended pH is between 5.8 and 6.2. Adding pH-con increase EC.

Use pH-grow in the vegetative phase to lower the pH.

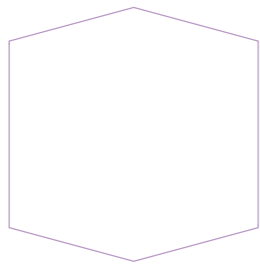
Use pH-bloom in the generative phase to lower the pH.

The guidelines in the table aren't an iron law, but can help novice growers to develop a sophisticated fertilization strategy. The optimum fertilization strategy is further determined by factors such as: temperature, humidity, plant species, root volume, moisture percentage in substrate, water dosage strategy, etc.

# CANNA TERRA PRODUCTS

CANNA TERRA IS AN EASY-TO-USE RANGE FOR GROWERS WHO WANT TO CULTIVATE THEIR CROPS ON SOIL OR ON POTTING MIXES ●

The TERRA range consists of the substrate CANNA Terra Professional Plus and specially developed mineral nutrients. These TERRA mineral nutrients are divided into Terra Vega for the growing phase and Terra Flores for the flowering phase of the plant. By using the complete range of TERRA products you'll achieve the best results.



## CANNA TERRA PROFESSIONAL PLUS

CANNA Terra Professional Plus is the highest quality substrate available. The composition includes airy peat moss and several types of tree bark that have an antiseptic action. The CANNA Terra Professional Plus formula was developed to fulfill the desire of creating the purest soil mix possible and to obtain the best effects with CANNA TERRA nutrients.

### Advantages of CANNA Terra Professional Plus

- Mineral-nutrient starter charge
- Promotes exceptional root development
- Long-term control with lime charge for a plant's life cycle

### Different kinds of peat

One of the ingredients of the TERRA substrate is peat. Peat originates in an environment where climatological circumstances break down dead plant material. Over the years the plant rests accumulate in a layer of organic dust a couple of metres deep.



## CANNA TERRA VEGA

The growing phase of the plant is very important. In this period the plant lays the foundation for the flowering phase and a high yield. The nutrients in CANNA Terra Vega contain all the essential elements for optimal growth during this phase.

### Advantages of

#### CANNA Terra Vega

- All-in-one fertilizer
- All ingredients in the right ratio for the growing phase
- Easy-to-use

## CANNA TERRA FLORES

During the flowering phase the plant has different nutrient needs. During this period there is an increased need for phosphorous and potassium. Terra Flores is rich in dissolved and readily available phosphorous and potassium allowing the plant to absorb what it needs for optimal flowering/fruit formation.

### Advantages of

#### CANNA Terra Flores

- All-in-one fertilizer
- High quality easily available elements
- Long, stable shelf life

## CANNA AQUA:

# HYDROPONICS MADE EASY

CANNA AQUA IS USED FOR GROWING PLANTS IN A RECIRCULATING SYSTEM. IF YOU WORK WITH THIS KIND OF SYSTEM YOU GROW WITHOUT A MEDIUM OR ON AN INERT MEDIUM LIKE CLAY PEBBLES OR ROCKWOOL. THE NUTRIENTS FLOW FROM THE NUTRIENT TANK TO THE PLANT'S ROOTS AND BACK. THE ROOTS ARE IN DIRECT CONTACT WITH THE DISSOLVED NUTRIENTS. THIS WAY THE PLANT DOESN'T NEED TO SPEND MUCH ENERGY TO LOOK FOR NUTRIENTS ●

The big advantages of growing hydroponically are that the grower can control the nutrient flow very accurately. The grower saves water and nutrients and knows exactly what's going on in the root zone. This makes it easier to adjust the nutrient flow in case the plants need this and the grower can decide to make nutrient corrections with direct effect.

Compared with cultivating on substrates with high nutrient and water buffers, such as potting soil or coco, recirculating systems require closer monitoring of the nutrient and the plants. Since these cultivation systems contain little to no nutrient buffer, changes to the nutrient solution have a direct impact. CANNA AQUA offers a well balanced nutrient that creates a stable pH throughout the whole growth cycle ensuring that all nutrients are available. CANNA AQUA is best used with soft water.

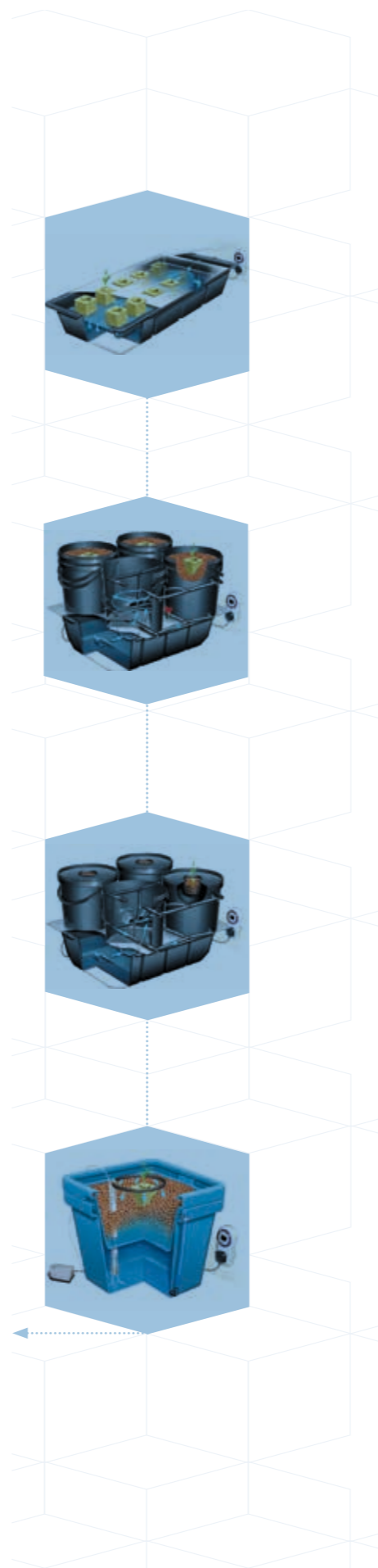
### Advantages of growing on AQUA

- Precise nutrient control
- User friendly, no need to adjust the pH after the initial pH setting
- Directly absorbable compounds
- Tested thoroughly
- Water saving so environmental friendly

### What is the difference between a recirculating system and a run-to-waste system?

**Closed/recirculating system:** In a recirculating system the water flows in a closed loop and is reused: it flows from the nutrient reservoir, to the roots and back to the reservoir.

**Run-to-waste system:** In a run-to-waste system the growing medium is continuously supplied with a fresh nutrient solution while the old is removed from the substrate by a drainage system.



# AQUA

## CANNA AQUA GROW SCHEDULE

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### Mixing nutrients

(see order & dosage in the Grow Schedule)

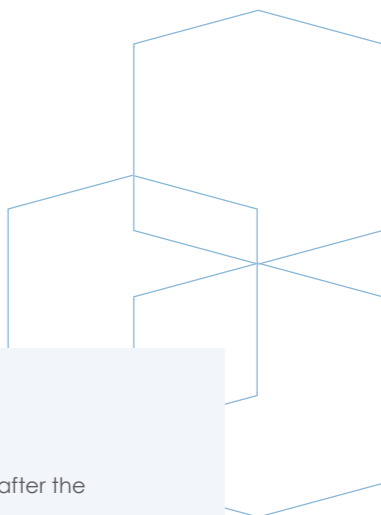
- Measure the water temperature (18 - 22 °C)
- Measure the EC of the water
- Add 80% of the desired dosage of nutrients to the water in the nutrient tank (A&B in equal dosage), stir well.
- Add additives
- Measure the EC in total
- Correct the EC with nutrients, the other 20%, to the ideal EC value (strict)
- Measure the pH
- Correct the pH

### The life cycle of your plants

- Start / rooting (3 –5 days) Prepare your substrate
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- Blooming phase I The flowers or fruits develop in length, growth in height achieved
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- Blooming phase IV Flowers or fruit ripening process

### EC of water

EC stands for *Electrical Conductivity*. It is the potential of water to conduct electricity. This value is used as a guide to measure the mineral salts in the water and is used as an indication of nutrient content.



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# AQUA GROW SCHEDULE

Cultivation period in weeks	Light / Day in hours	Aqua Vega ml/10 litres	Aqua Flores ml/10 litres	RHIZOTONIC XP ml/10 litres	CANNAZYM ml/10 litres	CANNABOOST ml/10 litres	PK 13/14 ml/10 litres	EC + in mS/cm	FLOWERING				
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- This period varies depending on the species and number of plants per m<sup>2</sup>. Mother plants remain in this phase until the end (6 - 12 months).
- The changeover from 18 to 12 hours varies depending on the variety. The rule of thumb is to change after 2 weeks.
- Reduce hours of light if ripening goes too fast.
- Watch out for increasing relative humidity.
- Double CANNAZYM dosage to 50 ml/10 litres. If substrate is reused.
- 20 ml/10 litres standard. Increase to a maximum of 40 ml/10 litres for extra flowering power.

EC: EC+ value is based in mS/cm when EC water = 0.0 at 25°C, pH 6.0. Add the EC of the tap water that is used to the recommended EC! The EC total in the example is with tap water with an EC of 0.4.

pH: Recommended pH is between 5.2 and 6.2.

Adding pH-con increase EC.

Use pH-grow in the vegetative phase to lower the pH.

Use pH-bloom in the generative phase to lower the pH.

The guidelines in the table aren't an iron law, but can help novice growers to develop a sophisticated fertilization strategy. The optimum fertilization strategy is further determined by factors such as: temperature, humidity, plant species, root volume, moisture percentage in substrate, water dosage strategy, etc.





# AQUA PRODUCTS

CANNA AQUA IS A USER FRIENDLY RANGE FOR GROWERS WHO WANT TO GROW THEIR CROPS HYDROPONICALLY ●

The AQUA range consists of CANNA Aqua Vega for the growing phase and Aqua Flores for the flowering phase. The CANNA AQUA nutrients are unique compared to other nutrition formulas because of the optimal natural pH balance. There is no need to adjust the pH after the initial setting.



## CANNA AQUA VEGA A+B

The growing phase of the plant is very important. In this period the plant lays the foundation for the flowering phase and a high yield. The nutrients in CANNA Aqua Vega contain all the essential elements for optimal growing during this phase.

### Advantages of

#### CANNA Aqua Vega

- Easy-to-use and specifically developed for the growing phase
- No need to adjust the pH after initial setting
- Directly absorbable compounds

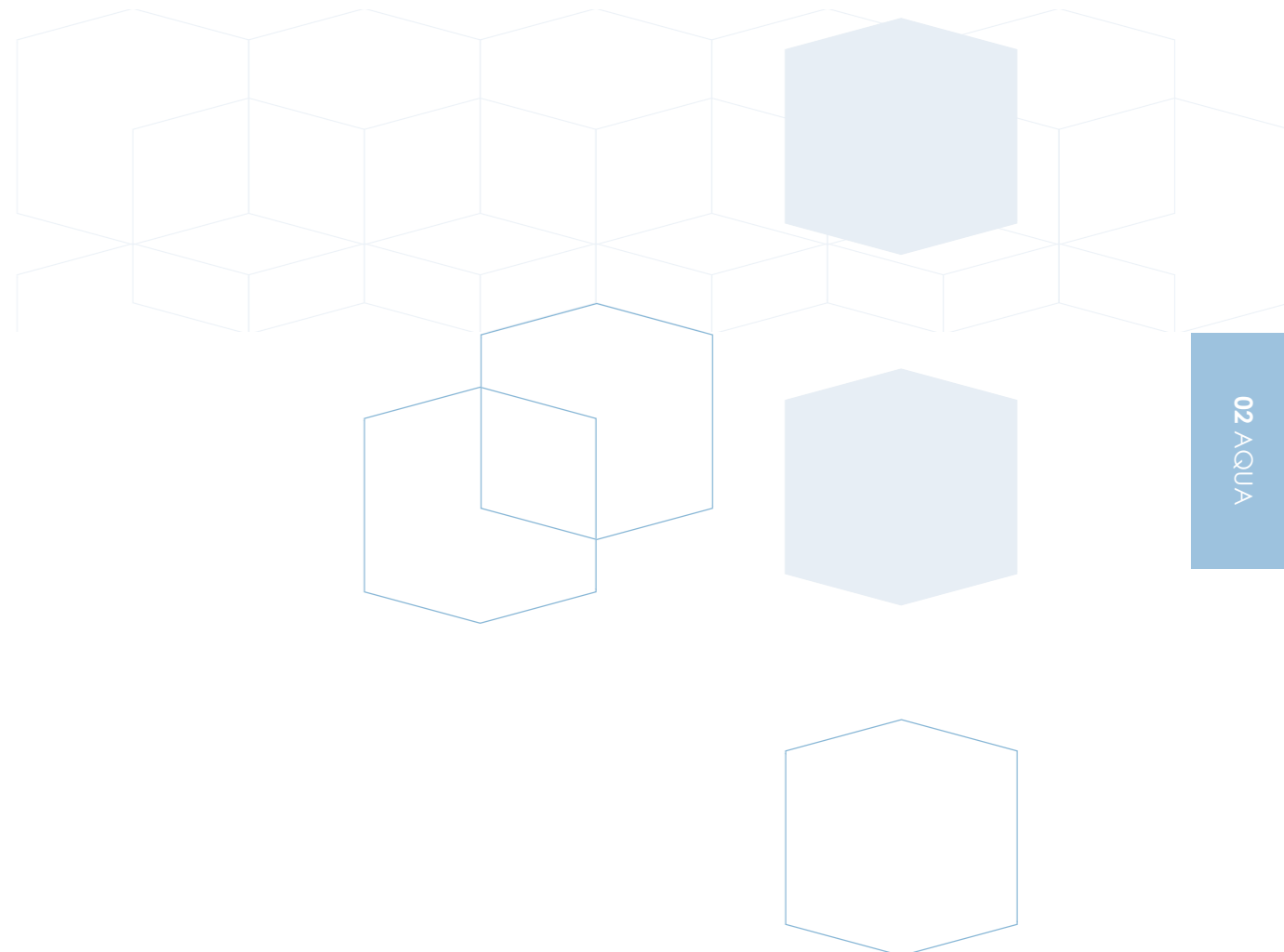
## CANNA AQUA FLORES A+B

During the flowering phase the plant has different nutrient needs. During this period there is an increased need for phosphorous and potassium. Aqua Flores is rich in dissolved and readily available phosphorous and potassium allowing the plant to absorb what it needs for optimal flowering/fruit formation.

### Advantages of

#### CANNA Aqua Flores

- Contains all the essential ingredients for lush flowering and yield
- Aqua Flores helps fruit formation and can enhance flavour and smell
- No need to adjust the pH after initial setting



## CANNA SUBSTRA:

# GROWING ON WATER

CANNA SUBSTRA IS THE RANGE OF PLANT NUTRIENTS FOR GROWING ON A RUN-TO-WASTE SYSTEM. IN THESE SYSTEMS THE DRAINAGE WATER IS NOT RETURNED TO THE NUTRIENT TANK BUT DRAINS AWAY. ONE OF THE BIG ADVANTAGES IS THAT THE PLANT'S ROOTS ARE IN DIRECT CONTACT WITH THE NUTRIENT WATER AND GET FRESH NUTRIENTS AT EACH FEED. THIS MINIMIZES THE RISK OF DISEASES AND THE PLANTS GET EXACTLY THE NUTRIENTS THEY NEED ●

In a run-to-waste system you grow the plant without a medium or on an inert medium. This means that the substrate doesn't absorb any nutrients so the grower can grow with great precision. The nutrient water passes the roots only one time. A big advantage is that when the grower uses a wrong dosage of nutrients, it is easy to drain the excess water.

Growing with CANNA SUBSTRA requires some knowledge and experience. It is necessary to follow EC and pH values. You must be able to read your plant and know which nutrients it needs. The plant responds directly to what you do and the error margins are small. If you know what you are doing, you can achieve a substantial return with this cultivation method.

When you don't have a suitable drain, a recirculating or closed system like CANNA AQUA is a better choice.

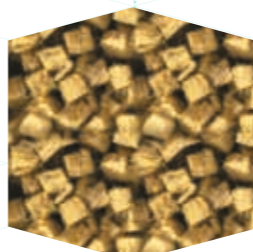
### Advantages of growing on SUBSTRA

- Grow with precision
- No damaging ballast substances
- Directly absorbable compounds
- Thoroughly tested
- Comes in a version for hard water and soft water

### Hard water and soft water?

Hard water, soft water, bad water... what's the difference? Hard water is an issue for cleaning and equipment, and it increases the chemical reactivity of the water especially as far as pH is concerned; it is often considered healthier. Typically, hard water comes from ground water that has been exposed for longer periods to mineral-bearing rocks.

Soft water on the other hand allows soap to foam up and work better. It affects equipment less, and provides more of a 'blank slate' for chemical reactions. Studies have shown a correlation between soft water and health issues including cardiac disease. Soft water is typically sourced from surface water - rivers, streams, and lakes - and has not been exposed for long periods to mineral bearing rock formations.



# SUBSTRA

## CANNA SUBSTRA GROW SCHEDULE

THE GROW SCHEDULE ON THE LEFT PAGE WILL HELP YOU TO GROW YOUR PLANTS AND ACHIEVE A BIG HARVEST. THE SCHEDULE WILL GUIDE YOU THROUGH THE ESSENTIAL FACTORS FOR AN OPTIMAL RESULT. FACTORS LIKE WATER TYPE, NUTRIENTS, ADDITIVES, AND ELECTRIC CONDUCTIVITY (EC) OF THE WATER ●

Other important factors for growing are temperature, humidity and airflow in the growing area. If you have any issues concerning these factors, please check the FAQ page on our website or contact your reseller.

### Personalized Grow Guide

Do you grow your crops in less common circumstances? Or do you have specific wishes? A personalized Grow Guide gives you more advanced insights in how to grow your plants. Find your personalized Grow Guide with the QR code below.



### Mixing nutrients

(see order & dosage in the Grow Schedule)

- Measure the water temperature (18-22°C)
- Measure the EC of the water
- Add 80% of the desired dosage of nutrients to the water in the nutrient tank (A&B in equal dosage)
- Add additives
- Measure the EC in total
- Correct the EC with nutrients, the other 20%, to the ideal EC value (strict)
- Measure the pH
- Correct the pH

### The life cycle of your plants

- Start / rooting (3–5 days) Prepare your substrate
- Growing phase I Your plant develops in volume
- Growing phase II Your plants slow down growing in height after the appearance of the formation of flowers
- Blooming phase I The flowers or fruits develop in length, growth in height achieved
- Blooming phase II Development of the volume of flowers or fruit
- Blooming phase III Development of the mass of flowers or fruit
- Blooming phase IV Flowers or fruit ripening process

### EC of water

EC stands for *Electrical Conductivity*. It is the potential of water to conduct electricity. This value is used as a guide to measure the mineral salts in the water and is used as an indication of nutrient content.

**CANNA**  
The solution for growth and bloom

# SUBSTRA GROW SCHEDULE

Cultivation period in weeks	Light / Day in hours	Substra Vega		Substra Flores		RHIZOTONIC XP ml/10 litres	CANNAZYM ml/10 litres	CANNABOOST ml/10 litres	PK 13/14 ml/10 litres	EC+ in mS/cm
		ml A/10 litres ml B/10 litres	ml A/10 litres ml B/10 litres	ml A/10 litres ml B/10 litres	ml A/10 litres ml B/10 litres					
< 1	18	10 - 20	-	-	40	-	-	-	-	0.7 - 1.1
0 - 3 <sup>1</sup>	18	15 - 25	-	-	20	25	-	-	-	0.9 - 1.3
2 - 4 <sup>2</sup>	12	20 - 30	-	-	20	25	20 <sup>3</sup>	-	-	1.2 - 1.6
2 - 3	12	-	25 - 35	5	5	25	20 - 40	-	-	1.4 - 1.8
1	12	-	25 - 35	5	5	25	20 - 40	15	-	1.5 - 1.9
2 - 3	12	-	15 - 25	5	5	25	20 - 40	-	-	1.0 - 1.4
1 - 2	10 - 12 <sup>3</sup>	-	-	-	-	25 - 50 <sup>4</sup>	20 - 40	-	-	0.0

### GROWTH

**Start / rooting (3 - 5 days)** -  
Aqua substrate wet.

**Vegetative phase I** -  
Plants develop in volume.

**Vegetative phase II** - Up to growth stagnation after  
fructification or appearance of the formation of flowers.

**Generative Period I** - Flowers or fruits develop in length.  
Growth in height achieved.

**Generative period II** -  
Development of the volume (breadth) of flowers or fruit.

**Generative Period III** -  
Development of the mass (weight) of flowers or fruit.

**Generative Period IV** -  
Flowers or fruit ripening process.

### FLOWERING

- 1 This period varies depending on the species and number of plants per m<sup>2</sup>. Mother plants remain in this phase until the end (6 - 12 months).
- 2 The changeover from 18 to 12 hours varies depending on the variety. The rule of thumb is to change after 2 weeks.
- 3 Reduce hours of light if ripening goes too fast. Watch out for increasing relative humidity.
- 4 Double CANNAZYM dosage to 50 ml/10 litres. If substrate is reused, 20 ml/10 litres standard. Increase to a maximum of 40 ml/10 litres for extra flowering power.

EC: EC+ value is based in mS/cm when EC water = 0.0 at 25°C, pH 6.0. Add the EC of the tap water that is used to the recommended EC! The EC total in the example is with tap water with an EC of 0.4.

pH: Recommended pH is between 5.2 and 6.2. Adding pH-con increase EC. Use pH-grow in the vegetative phase to lower the pH. Use pH-bloom in the generative phase to lower the pH.

The guidelines in the table aren't an iron law, but can help novice growers to develop a sophisticated fertilization strategy. The optimum fertilization strategy is further determined by factors such as: temperature, humidity, plant species, root volume, moisture percentage in substrate, water dosage strategy, etc.

# CANNA SUBSTRA PRODUCTS

CANNA SUBSTRA IS A USER FRIENDLY RANGE FOR GROWERS WHO WANT TO GROW THEIR CROPS ON INERT SUBSTRATES ●

The SUBSTRA range consists of CANNA Substra Vega A&B for the growing phase and Substra Flores A&B for the flowering phase. The CANNA nutrients are unique compared to other nutrition formulas for run-to-waste systems. Because of the natural pH balancing components there is no need to adjust the pH.

Both CANNA SUBSTRA nutrients consist of two parts, an A part and a B part. They both contain high concentrates of nutrients and natural excipients that support the absorption. When these are mixed in concentrated form at the same time they clog together. That's why you should always first dissolve the A component in the nutrient water and then add the B component.



## CANNA SUBSTRA VEGA A+B

The growing phase of the plant is most important. In this period the plant lays the basis for the flowering phase and a high yield. The nutrients in CANNA Substra Vega contain all the essential elements for optimal growing during this phase.

### Advantages of CANNA Substra Vega

- Directly absorbable nitrogen compounds and trace elements
- Suitable for all inert substrates
- Dissolves directly
- Vital side shoots and luxuriant root development

## CANNA SUBSTRA FLORES A+B

In the blooming phase the plant has different nutrient needs. During this period less nitrogen is required and there is an increased need for phosphorous and potassium. Substra Flores is rich in these elements and the special chelated trace elements allow direct absorption resulting in a perfect bloom.

### Advantages of CANNA Substra Flores

- Contains all the essential ingredients for lush flowering and yield
- Substra Flores stimulates fructification and provides characteristic flavour
- Dissolves directly

CANNA COCO:

## GROWING ON COCO COIR/FLAKES

CANNA COCO IS CANNA'S COMPLETE RANGE OF PRODUCTS FOR GROWING ON COCO. THE RANGE CONSISTS OF HIGH-QUALITY PLANT NUTRIENTS AND SUBSTRATES FOR THE GROWING PHASE AS WELL AS THE BLOOMING PHASE ●

Coco is very suitable for the cultivation of fast growing crops. Coco substrate has unique buffering qualities and a complex air/water system for optimal root development. Even the inexperienced grower can grow successfully on coco. CANNA COCO substrate is more airy than for example potting mix. This means there is more room for the roots to develop and plants get much more oxygen. This stimulates growth and bloom and produces bigger yields.

Thanks to the special characteristics of coco substrate CANNA COCO doesn't have a Vega and Flores variant, but one unique composition for both the growing and blooming phase.

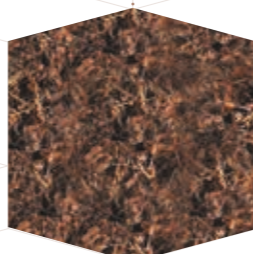
### Advantages of growing on COCO

- Unique buffering quality
- Specifically tailored natural fertiliser
- Open structure stimulates root development

The CANNA COCO substrates are buffered and free of harmful pests and diseases. The open structure is a great advantage and has an excellent air/water balance. The plants can develop strong roots and the buffering ability makes coco easy to grow with, even for inexperienced growers.



Did you know that CANNA played the leading role in the development of growing successfully on coco?



# COCOCO



## CANNA COCO GROW SCHEDULE

THE GROW SCHEDULE WILL HELP YOU TO GROW YOUR PLANTS AND ACHIEVE A BIG HARVEST. THE SCHEDULE WILL GUIDE YOU THROUGH THE ESSENTIAL FACTORS FOR THE OPTIMAL YIELD, LIKE WATER TYPE, NUTRIENTS, ADDITIVES, AND ELECTRIC CONDUCTIVITY (EC) OF THE WATER ●

Other important factors for growing are temperature, humidity and airflow in the growing area. If you have any issues concerning these factors, please check the FAQ page on our website or contact your reseller.

### Personalized Grow Guide

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### Mixing nutrients

(see order & dosage in the Grow Schedule)

- Measure the water temperature (18 - 22 °C)
- Measure the EC of the water
- Add 80% of the desired dosage of nutrients to the water in the nutrient tank (A&B in equal dosage)
- Add additives
- Measure the EC in total
- Correct the EC with nutrients, the other 20%, to the ideal EC value (not strict because there is a buffering in the substrate)
- Measure the pH
- Correct the pH

### The life cycle of your plants

- Start / rooting (3 -5 days) Prepare your substrate
- Growing phase I Your plant develops in volume
- Growing phase II Your plants slow down growing in height after the appearance of the formation of flowers
- Blooming phase I The flowers or fruits develop in length, growth in height achieved
- Blooming phase II Development of the volume of flowers or fruit
- Blooming phase III Development of the mass of flowers or fruit
- Blooming phase IV Flowers or fruit ripening process

### EC of water

EC stands for *Electrical Conductivity*. It is the potential of water to conduct electricity. This value is used as a guide to measure the mineral salts in the water and is used as an indication of nutrient content.

**CANNA**  
The solution for growth and bloom

# COCCO GROW SCHEDULE

Cultivation period in weeks	Light / Day in hours	COCO A&B ml A/10 litres ml B/10 litres	RHIZOTONIC XP ml/10 litres	CANNAZYM ml/10 litres	CANNABOOST ml/10 litres	PK 13/14 ml/10 litres	EC + in mS/cm	
< 1	18	15 - 25	40	-	-	-	0.7 - 1.1	
0 - 3	18	20 - 30	20	25	-	-	0.9 - 1.3	
2 - 4	12	25 - 35	20	25	20	-	1.1 - 1.5	
2 - 3	12	30 - 40	5	25	20 - 40	-	1.4 - 1.8	
1	12	30 - 40	5	25	20 - 40	15	1.6 - 2.0	
2 - 3	12	20 - 30	5	25	20 - 40	-	1.0 - 1.4	
1 - 2	10 - 12	-	-	25 - 50	20 - 40	-	0.0	

### GROWTH

**Start / rooting (3 - 5 days)** -  
Aqua substrate wet.

**Vegetative phase I** -  
Plants develop in volume.

**Vegetative phase II** - Up to growth stagnation after  
fructification or appearance of the formation of flowers.

**Generative Period I** - Flowers or fruits develop in length.  
Growth in height achieved.

**Generative period II** -  
Development of the volume (breadth) of flowers or fruit.

**Generative Period III** -  
Development of the mass (weight) of flowers or fruit.

**Generative Period IV** -  
Flowers or fruit ripening process.

### FLOWERING

- This period varies depending on the species and number of plants per m<sup>2</sup>. Mother plants remain in this phase until the end (6 - 12 months).
- The changeover from 18 to 12 hours varies depending on the variety. The rule of thumb is to change after 2 weeks.
- Reduce hours of light if ripening goes too fast.
- Watch out for increasing relative humidity.
- Double CANNAZYM dosage to 50 ml/10 litres. If substrate is reused.
- 20 ml/10 litres standard. Increase to a maximum of 40 ml/10 litres for extra flowering power.

EC: EC+ value is based in mS/cm when EC water = 0.0 at 25°C, pH 6.0. Add the EC of the tap water that is used to the recommended EC!

The guidelines in the table aren't an iron law, but can help novice growers to develop a sophisticated fertilization strategy. The optimum fertilization strategy is further determined by factors such as: temperature, humidity, plant species, root volume, moisture percentage in substrate, water dosage strategy, etc.

The EC total in the example is with tap water with an EC of 0.4.

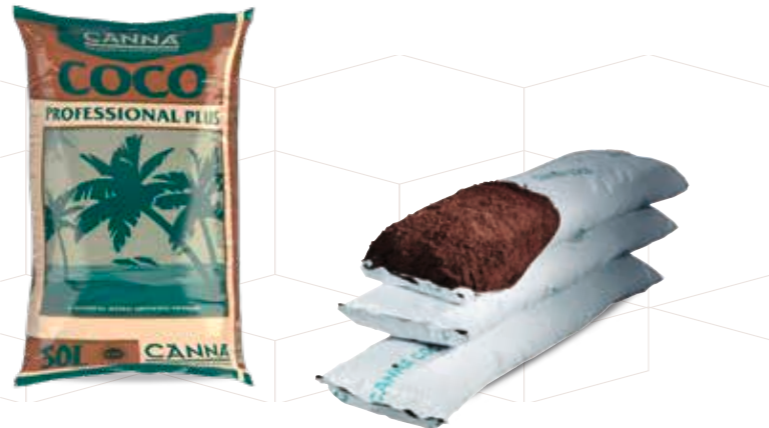
pH: Recommended pH is between 5.5 and 6.2.  
Adding pH-conc increase EC.  
Use pH-grow in the vegetative phase to lower the pH.  
Use pH-bloom in the generative phase to lower the pH.



# COCO PRODUCTS

CANNA COCO IS A USER FRIENDLY RANGE FOR BOTH PROFESSIONAL GROWERS AND HOBBYISTS. THE COCO SUBSTRATES HAVE A GREAT BUFFERING CAPACITY AND THE FINE, UNIFORM STRUCTURE MAKES IT REALLY EASY TO GROW YOUR CROPS ●

Due to the special coco characteristics in combination with the unique pre-buffering process, it is possible to combine vegetative and flowering nutrients in one nutrient mix. The medium and the plant itself control which nutrients are released to the plant at just the right times. This means the grower doesn't have to worry about the proper point to convert from grow to bloom nutrients!



## CANNA COCO BAGS

The Coco 50L Bags substrate is completely organic and free from viruses, soil diseases and chemical pesticides. The fine structure and ideal air/water system offers your plant a perfect starting point for lush growth and flowering. We have pre-buffered the coconut substrate. This means your plant can start developing right from the start.

### Advantages of

#### CANNA Coco Bags

- Free of harmful viruses and soil diseases
- Homogeneous structure
- Can be reused a number of times

## CANNA COCO SLABS

The Coco Slabs have been developed to fulfill all the requirements for cultivating plants and the Slabs are especially suitable for growing in trays. The coco has a fine, homogeneous spongelike fibre structure.

### Advantages of

#### CANNA Coco Slabs

- Suitable for growing in trays
- Full buffering
- Meets the strict RHP demands (certificate for growing media)



## CANNA COCO BRICK

The Coco Brick has the exact same high quality medium that CANNA is known for but comes in a compressed form and one that truly makes a difference. Its most distinctive feature is the hole. It creates extra surface which makes it easier to absorb water. Therefore the CANNA Coco Brick expands extremely fast. Check the product video with the QR code.



### Advantages of

#### CANNA Coco Brick

- Compressed form but same high quality
- Extra capacity to absorb water
- Easy-to-use

## CANNA COCO A&B

Coco A&B is a complete professional nutrient for plants containing all the essential elements for optimal growing and flowering. The unique formulation is suitable for both the growth and blooming phase and consist of two parts, an A part and a B part. The highly concentrated compounds conflict with each other when mixed together resulting in an unusable solution. The compounds must be added to the nutrient water separately to avoid this reaction.

### Advantages of

#### CANNA Coco A&B

- One nutrient for both the vegetative phase and blooming phase
- Dissolves directly
- Specifically tailored to the characteristics of coco substrates

CANNA was the pioneer with the development of a successful coco substrate. The COCO range, CANNA's flagship, was introduced in 1995. CANNA was the first company in the market who successfully developed buffered coco substrates that meet the Dutch RHP Quality Mark for substrates. The CANNA COCO substrates are not steamed, in contrast to most competitive coco products. This makes them unique and one of the best substrates available.

## BIOCANNA:

# GROWING 100% ORGANIC ON SOIL

THE BIOCANNA PRODUCTS ARE A TOP OF THE LINE NUTRIENT AND SUBSTRATE RANGE FOR ORGANIC GROWING AND ESPECIALLY DEVELOPED FOR CULTIVATION IN POTTING MIX. THE PRODUCTS MEET THE HIGHEST INTERNATIONAL ORGANIC STANDARDS. CANNA PROTECTS THE PRODUCTION PROCESS FROM THE RAW PRODUCE TO THE FINAL PRODUCT SO THAT YOU ARE GUARANTEED THE BEST RESULT ●

The BIOCANNA products are composed of solely natural ingredients and do not contain any animal residual product. More and more people are aware of the importance of organic farming and don't want products with synthetic fertilizers and pesticides. The main advantage of this is that the product's composition is much better tuned to the plant's needs. An additional advantage is that the product cannot contain any animal pathogenic organism, such as influenza viruses (avian flu, for example) that can be harmful to human health.

### Advantages of BIOCANNA

- Meets the highest international organic standards
- Composed of 100% natural ingredients
- No material of animal origin, suitable for a vegan lifestyle
- Harvest grown with the complete BIOCANNA product line may be called EKO

### CU Int. and OMRI Certifications

The Control Union Certifications (part of the Control Union World Group) monitors worldwide the quality of products intended for organic farming. To guarantee the quality, the foundation issues the CU Certificate. All certified products are free from artificial fertilizers, chemical pesticides, chemical or synthetic fragrances, dyes or preservatives. The products must also be free of genetically manipulated organisms (GMO).

OMRI lists input products such as fertilizers, pest controls, and livestock care products that are compliant with organic standards. Allowed products are "OMRI Listed®" and may display the OMRI seal. OMRI verifies input products intended for use in organic production. OMRI's mission is to support the growth and trust of the global organic community.



# BIOCANNA



## BIOCANNA GROW SCHEDULE

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- Measure the water temperature (18 - 22 °C)
- Measure the EC of the water
- Add 80% of the desired dosage of nutrients to the water in the nutrient tank (Vega or Flores)
- Add additives
- Measure the EC in total
- Correct the EC with nutrients, the other 20%, to the ideal EC value
- Measure the pH (in general the pH doesn't have to be corrected, only with extreme hard water > pH 7.5)

### The life cycle of your plants

- Start / rooting (3 –5 days) Prepare your substrate
- Growing phase I Your plant develops in volume
- Growing phase II Your plants slow down growing in height after the appearance of the formation of flowers
- Blooming phase I The flowers or fruits develop in length, growth in height achieved
- Blooming phase II Development of the volume of flowers or fruit
- Blooming phase III Development of the mass of flowers or fruit
- Blooming phase IV Flowers or fruit ripening process

**BIOCANNA**  
The Bio Solution for growing Great Broom

# BIOCANNA GROW SCHEDULE

Cultivation period in weeks	Light / Day in hours	Bio Vega ml/10 litres	Bio Flores ml/10 litres	Bio	
				RHIZOTONIC ml/10 litres	Bio BOOST ml/10 litres
< 1	18	15 - 20	-	40	-
0 - 3 <sup>1</sup>	18	20 - 25	-	20	-
2 - 4 <sup>2</sup>	12	25 - 30	-	5	20 <sup>4</sup>
2 - 3	12	-	30 - 40	5	20 - 40
1	12	-	30 - 40	5	20 - 40
2 - 3	12	-	20 - 30	5	20 - 40
1 - 2	10 - 12 <sup>3</sup>	-	-	-	20 - 40

### GROWTH

**Start / rooting (3 - 5 days)** -  
Aqua substrate wet.

**Vegetative phase I** -  
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**Vegetative phase II** - Up to growth stagnation after fructification or appearance of the formation of flowers.

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**Generative Period IV** -  
Flowers or fruit ripening process.

### FLOWERING

- 1 This period varies depending on the species and number of plants per m<sup>2</sup>. Mother plants remain in this phase until the end (6 - 12 months).
- 2 The changeover from 18 to 12 hours varies depending on the variety. The rule of thumb is to change after 2 weeks.
- 3 Reduce hours of light if ripening goes too fast. Watch out for increasing relative humidity.
- 4 20 ml/10 litres standard, increase to a maximum of 40 ml/10 litres for extra flowering power.

pH: The pH doesn't generically need to be corrected. Hard water (pH > 7.5) is an exception to this. It is recommended that the pH should then be corrected to 6.0 - 6.5. pH correction using Organic Acid. (or pH min grow)

The guidelines in the table aren't an iron law, but can help novice growers to develop a sophisticated fertilization strategy. The optimum fertilization strategy is further determined by factors such as: temperature, humidity, plant species, root volume, moisture percentage in substrate, water dosage strategy, etc.

# BIOCANNA PRODUCTS



By carrying out consistent checks – before, during and after the production process – and by doing as much as possible in-house, CANNA has always been able to deliver reliable and high-quality products for retailers. This is how CANNA has managed to distinguish itself in the market.

It is all about a total experience: honesty is the best policy, and the final harvest is the standard by which we will be judged.

## BIOCANNA BIO TERRA PLUS

BIOCANNA Bio Terra Plus is a 100% plant based natural blend specifically developed for use in organic farming. It is certified by Control Union Certifications for use in organic growing. It is a reduced peat potting mix, composed of the best white peat, coco coir, and organic components without any materials derived from animals.

### Advantages of BIOCANNA Bio Terra Plus

- High quality resources including white peat and coco fiber
- The plant always begins its life with the optimal amount of nutrition
- Provides an increased water holding capacity with improved drainage properties to ensure a well aerated substrate for faster rooting
- Through this simple but effective system, the less experienced grower can also achieve great results using BIOCANNA Bio Terra Plus

## BIOCANNA BIO VEGA

BIOCANNA Bio Vega contains betaine and 17 detectable amino acids. The bioactive substances in Bio Vega stimulate the root development and the formation of strong growth shoots. This allows plants to optimally start their blooming period.

### Advantages of BIOCANNA Bio Vega

- Contains easy absorbable betaine nitrogen
- Composed of plant materials
- Nutrients released according to the plant's needs

## BIOCANNA BIO FLORES

BIOCANNA Bio Flores is a complete 100% natural fertilizer for flowering plants in potting soil or in the open ground. The product is composed of fermented plant material and contains betaine and many amino acids that give the plant extra flowering power.

### Advantages of BIOCANNA Bio Flores

- Composed of fermented plant material
- Rich in directly absorbable nutrients, proteins, fruit acids and vitamins
- High concentration

## BIOCANNA BIO RHIZOTONIC

BIOCANNA Bio RHIZOTONIC is a powerful 100% natural root stimulator. A powerful root system ensures that the plant can absorb more nutrients and grow faster. Bio RHIZOTONIC has a noticeably vitalizing effect on plants.

### Advantages of

#### BIOCANNA Bio RHIZOTONIC

- Contains a range of vitamins like B1 and B2
- Stimulates the development of root (hairs), root tips and increases the plant's resistance
- Ideal remedy for stressed plants such as cuttings during potting or during transport

## BIOCANNA BIO BOOST

BIOCANNA Bio BOOST is a yield increasing agent for all cultivation systems and can be applied in combination with all CANNA's nutritional lines and additives. Bio BOOST is not a nutrient but a natural fermented plant extract with bloom stimulating characteristics that are also responsible for a fuller flavour.

### Advantages of

#### BIOCANNA Bio BOOST

- The bioactive substances result in an extra metabolism that is exactly what the plant needs during the blooming period
- The plants produce more fructose and become healthier and stronger
- The plants are less vulnerable to diseases and plagues
- A higher yield with a strong, exuberant and vital fructification

## WE CHOOSE NATURE



The aim of organic farming is to produce in a sustainable manner and in harmony with nature. An advantage of organic fertilisers over synthetic fertilisers is that they bring organic material into the soil, which leads to an improvement of the soil's structure. Honesty and reliability are the keywords. By creating more green lands, the world will cool down and new fertile land means new opportunities to grow. Now is the time to unite and work together to prevent further damage. That's why BIOCANNA teamed up with Justdigger.

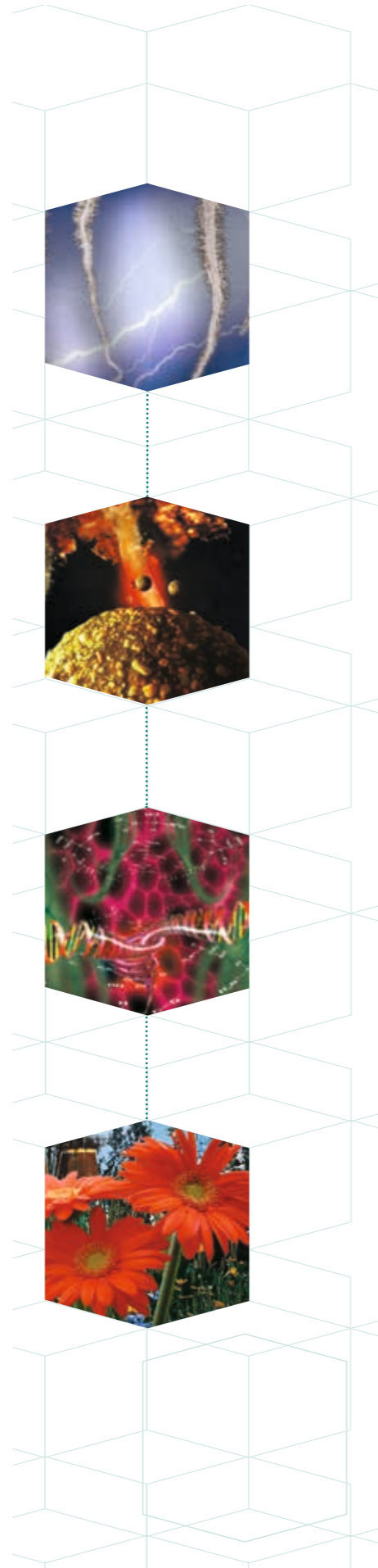
Justdigger's mission is to launch large scale integrated landscape restoration projects across the globe, re-green as many degraded lands as possible to restore local food and water supplies and economies, prevent climate refugees and ultimately help reverse climate change. It's a win-win situation and with our combined forces, BIOCANNA and Justdigger create a greener world for future generations to come.

[www.wechoosenature.org](http://www.wechoosenature.org)

## CANNA ADDITIVES: GET THE MOST OUT OF YOUR PLANTS

CANNA ADDITIVES ARE PRODUCTS THAT CAN BE USED ALONGSIDE THE MAIN NUTRIENTS. IN SOME CIRCUMSTANCES PLANTS NEED SPECIFIC NUTRIENTS. DO YOU WANT TO STIMULATE A SPECIFIC PROCESS DURING THE GROWING PHASE OF THE PLANT? OR DELIVER AN INJECTION OF SPECIFIC ELEMENTS, FOR EXAMPLE TO STIMULATE BETTER DEVELOPING ROOTS OR BIGGER FRUITS? THE CANNA ADDITIVES ARE CREATED TO IMPROVE YOUR PLANT'S HEALTH AND YIELD ●

CANNA Additives can be used on every medium and is used for cultivation on soil, in recirculating systems, when cultivating on coco and in run-to-waste systems. They are easy-to-use and by using CANNA's Grow Guide you'll know exactly the right moment when to add these products. They can be found in the characteristic CANNA double-neck bottle.



# ADDITIVES





## CANNA RHIZOTONIC XP

CANNA RHIZOTONIC XP is a powerful nutrient supplement that encourages further root development, supports the plant's resistance to disease and stress and promotes its inner and outer strength.

RHIZOTONIC XP augments a plant's natural growth processes, encouraging the plant to generate key proteins and carbohydrates that aid in protection against environmental extremes, such as temperature and drought stresses.

### RHIZOTONIC XP is ideal for

- Cuttings and plants that need to be re-potted
- Poor and badly developed plants
- Plants which have suffered shock
- All crops regardless the kind of substrate

Consistent use of CANNA RHIZOTONIC XP supplements a well-balanced crop nutrition program. Use RHIZOTONIC XP to encourage good root growth and

plant establishment. A vigorous and well developed root system is essential for the development of a strong, productive plant.

RHIZOTONIC XP is derived from aquatic plant extract used to re-vitalize and energize a poor or new root system.

### Advantages of

#### CANNA RHIZOTONIC XP

- Aids in the immediate generation of lush, new root growth on cuttings and transplants
- Enhances overall plant growth and natural reactions in the plant to ensure a healthier, powerful and stronger plant.
- Aids in the recovery process of any plant or cutting that has been subjected to stress in any way whatsoever
- RHIZOTONIC XP can be sprayed on leaves with realizable results

Registration Number:  
2018091A Fertilizers Act

## CANNAZYM

CANNAZYM is a high-quality enzyme product that speeds up the process of breaking down dead root material and activates beneficial microorganisms. The dead roots are turned into sugars, which make up a valuable source of nutrients for the plant.

CANNAZYM consists of different enzymes to which vitamins and extracts are added. This improves the plant's defence system and also stimulates the plant to form new roots.

### Advantages of CANNAZYM

- Turns dead roots into minerals and sugars
- Helps to form new roots
- Prevents from rotting roots
- Creates a balanced hydrological regime and good aeration in root environment

## CANNABOOST ACCELERATOR

CANNABOOST Accelerator boosts the metabolism of your plants. This is an important factor, because the uptake of nutrients depends greatly on the plant's health and metabolism rate.

This additive stimulates the development of new flowers. CANNABOOST isn't a nutrient but an additive that increases the plant's photosynthesis. This ensures that the fruits form faster and give them a better taste.

### Advantages of CANNABOOST Accelerator

- Better yield
- Suitable for all mediums
- Even higher yield when combined with CANNA PK 13/14

## CANNA PK 13/14

CANNA PK 13/14 is a mixture of top quality nutritional minerals that stimulate flowering. It's easy- to-use and makes high yields. PK 13/14 is suitable for any growing medium. Furthermore, it only needs to be applied for one week to the nutrient reservoir. If you do this at the right moment, you will get astonishing results in the bloom phase. Make sure to read the directions of use for the best benefits.

### Advantages of CANNA PK 13/14

- High grade mixture of the elements phosphorus and potassium
- Lavish flowering
- Suitable for any medium

**Phosphorous (P)** is a macro nutritional element for every plant. It plays a key role in metabolism and energy transfer. In the flowering phase, extra phosphorous is needed. Phosphorous strengthens cell formation in flowers, among other things.

**Potassium (K)** is also a macro nutritional element. It is found throughout the plant and is necessary for a lot of its activities. It is essential for transporting water and nutrition and it is responsible for the plant's quality and rigidity. In addition to this, it controls countless other processes such as sugar production. Potassium ensures that the plant can produce enough sugars during flowering, which are essential for the development of the flowers.

