

# Dutch solution for growth and bloom

**For cultivation on inert mediums,  
in run to waste systems, including  
rock wool systems**

- High yields
- Full control growing and & blooming processes
- Easy to use
- Professional nutrient containing all the essential elements for optimal growing
- Directly absorbable
- No residues in the end product
- Environmentally friendly



CANNA is the Dutch expert and worldwide leader in fertilizer products and growing media for rapidly growing plants. CANNA's ready-to-use formulations are environmentally friendly and easy to use. This allows both less experienced and professional growers to achieve exceptional results. Each CANNA product has been carefully developed for use on a specific growing medium or method. The secret behind CANNA's superior quality is found in an optimal balance between main and trace elements for each growing medium and fertilizer combination.

Since 1985, CANNA has been used as the reference point for research and commercial standards for horticultural purpose nutrients in the Netherlands and abroad. Our team of horticultural experts is actively involved in scientific research and widespread cultivation projects. This research is used to assess bioactivity, yield, taste, smell, environmental damage and harmful residues, thus providing higher yields and quality products. CANNA is committed to constantly delivering the best product to fulfil the highest demands of our customers, and will improve on each product by constantly searching for innovations.

Today, CANNA is available throughout Europe, Australia, North America, the Middle East and parts of Africa. For more information, please visit [www.canna-hydroponics.com](http://www.canna-hydroponics.com)

## Dutch solution for growth and bloom

### The CANNA SUBSTRA fertilizers

In order to provide the maximum influence on plant development, CANNA has developed CANNA SUBSTRA for inert grow media such as Rockwool and perlite. CANNA SUBSTRA is specially designed to meet the optimum requirements of all special nutrients required for fast-growing plants in a "run-to-waste"- system, thus providing a Carbon balance with real impact for fast-growing plants.

CANNA SUBSTRA promotes large yields, as it enables the grower to precisely control the supply of nutrients during the growing and blooming phases of fast-growing plants. Mediums such as rock wool and perlite are often used for this. In these environments, other CANNA products such as CANNA PK 13-14, CANNAZYM and CANNA Rhizotonic also provide additional support at different moments during the growing cycle. With a combination of these CANNA products, the plant can concentrate fully on growing and blooming.

In order to provide for the plants needs as efficiently as possible, we have developed Substra Vega A & B for the growing phase and Substra Flores A & B for the blooming phase.



#### CANNA SUBSTRA VEGA

In the first phase of a plant's growth, the basis is laid for subsequent bloom and yield. Vital growth shoots and luxuriant root development characterize healthy and strong growth. Substra Vega has been developed specially to meet the plant's needs in this phase.

Substra Vega is designed to fit various inert mediums. Full absorption of nutrients, as well as water penetration from the start of the growth stage are guaranteed by Substra Vega's large quantities of directly absorbable nitrogen compounds and high-grade trace elements. Always use the A and B parts in equal amounts.



#### CANNA SUBSTRA FLORES

In the brief but exuberant blooming period of a plant, it is vital that nutrients are directly available and properly composed.

Substra Flores stimulates fructification and contains all the nutrition that a plant needs during the blooming phase. For instance, plants need a considerably smaller amount of nitrogen during the blooming phase. On the other hand, the amount of potassium and phosphate needed is larger. Substra Flores is rich in these compounds and specially chelated trace elements that can be absorbed directly, guaranteeing a perfect bloom. Always use the A and B parts in equal amounts.

# CANNA SUBSTRA



	Cultivation period In weeks	Light / Day In hours	Substra Vega ml/ Gallon	Substra Flores ml/ Gallon	RHIZOTONIC ml/ Gallon	CANNAZYM ml/ Gallon	CANNABOOST ml/ Gallon	PK 13/14 ml/ Gallon	EC + ml/ Gallon	
<b>VEGETATIVE PHASE</b>										
<b>GROWTH</b>	<b>Start / rooting (3-5 days)</b> <i>Make substrate wet</i>	<1	18	4-8	-	15	-	-	-	0.7-1.1
	<b>Vegetative phase I</b> <i>Plants develop in volume</i>	0-3 <sup>1</sup>	18	6-10	-	8	10	-	-	0.9-1.3
	<b>Vegetative phase II</b> - Up to growth stagnation after fructification or appearance of the formation of flowers	2-4 <sup>2</sup>	12	8-12	-	8	10	8 <sup>5</sup>	-	1.2-1.6
<b>GENERATIVE PHASE</b>										
<b>FLOWERING</b>	<b>Generative Period I</b> - Flowers or fruits develop in length. Growth in height achieved	2-3	12	-	10-13	2	10	8-15	-	1.4-1.8
	<b>Generative period II</b> - Development of the volume (breadth) of flowers or fruit	1	12	-	10-13	2	10	8-15	6	1.5-1.9
	<b>Generative Period III</b> - Development of the mass (weight) of flowers or fruit	2-3	12	-	6-10	2	10	8-15	-	1.0-1.4
	<b>Generative Period IV</b> - Flowers or fruit ripening process	1-2	10-12 <sup>3</sup>	-	-	-	10-19 <sup>4</sup>	8-15	-	0.0