



Product information



ATA
organics®



B'CUZZ®
PRODUCTS



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Company Details

Atami Product information

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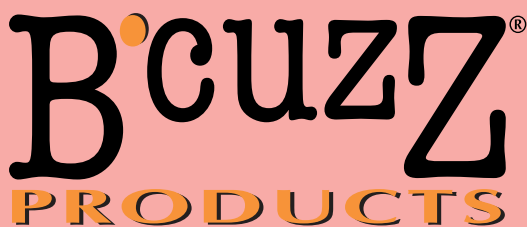
1. Introduction

Since the outset of the company eight years ago, Atami has developed into a leading research company in the area of biological technical engineering. The company supplies various substrates (soil, coco fibre and stonewool products), liquid plant nutrients and bio-stimulators. These products meet the highest quality standards and are produced according to ISO quality standards and the standards of the Dutch RHP Foundation (Quality Mark). Production conforms to the standard of Good Manufacturing Practice (GMP).

The high level of concentration of the nutrient supplements makes their use very economical. Tailored to the specific wishes and needs of growers, ATAMI has put three nutrient product lines on the market: B'cuzz products, Ata-organics and the ATA range. The B'cuzz products are especially developed for growers who look for maximum results from their plants in terms of yield and quality; a product line that is characterised by sheer fine-tuning. The ATA range consists of nutrients and nutrient additive products that are relatively easy to handle and these combine well with other similar products that are available on the market. The Ata-organics range is made for the bio-grower that wants a totally organic grown end product.

Through stringent quality control with respect to its raw materials, ingredients and production methods, ATAMI has developed into a leading supplier. Growers in 40 countries spread out over 5 continents get optimum results from Atami's smart and highly innovative product range.

The three major product ranges have proven to be a key to success and have driven ATAMI to its current successful position. The literal meaning of the word ATAMI: 'here I am'; Leading and innovating.



2. Quality

Atami's success is based on intensive quality care and extensive innovative laboratory research.

Good manufacturing Practice

Atami is applying the most recent guidelines for this sector with respect to modern production techniques.

Good manufacturing practice (GMP) is the system to guarantee that products are produced and inspected in agreement with the international quality standard.

Extensive laboratory tests prevent crop failures, which unfortunately can be the case with competitors nutrient lines. Plants that get their nutrients from Atami products grow and flower perfectly. One may ask 'why?' The answer is a simple one. For Atami, GMP starts with the selection and purchase process of raw materials and ingredients. Suppliers are required to meet our purchasing specifications and we pay close attention to preparation methods. Our natural biological nutrients are especially selected and are of the highest and purest quality.

RHP

RHP is the acronym for the Dutch Quality Mark for Substrates, issued by the RHP Foundation in Naaldwijk, the Netherlands. The RHP Foundation inspects the composition of potting soil (substrate) and determines whether the components and the final product meet its stringent quality demands.

Summarised:

- RHP-substrate provides a good level of fertilisation for a good growth.
- RHP-substrate has a good structure and good water retention qualities.
- RHP-substrate is not black and heavy, but brown and light.
- RHP-substrate is a guaranteed high-quality substrate!
- RHP-substrate contains no heavy metals and is therefore environmentally safe.
- RHP-substrate has no diseases and is, as such, healthy to plant and man.

RHP-substrates give you perfect value for your money. Purchasing this closely inspected high-quality product may be a little more expensive, but you can be assured that RHP-export is high-quality, clean and free of harmful soil diseases and viruses. More importantly; you can be assured of abundant and colourful results.

ISO 9002

Atami is applying the guidelines of the international ISO 9002 standard for quality systems. The point of this is two-fold: striving for customer satisfaction and working on continuous improvements.

Atami has a strong customer focus. Innovation and research are the primary goals of our policy. Atami's main focus is more than mere products: it is a complete nutrient system for optimum growth.

3. ATAMI Products

Atami products have won awards on numerous occasions. For example we were the first company to win the prestigious Dutch and North-American Hydroponic Cup in 2000. Atami products are packaged in lightproof, sealed packaging for prolonged use.

B'cuzz Products



Root stimulator

Roots are essential to absorb sufficient water, nutrient salts and sugars. Root stimulator ensures a strong growth of the roots and reduces the chances of root diseases like root lice, root rot and Fusarium.

Available in 250 ml (16 per box), 500 ml (25 per box), 1L (16 per box), 5L and 10L.



Booster

A booster is actually a six-in-one growth stimulator containing micronutrients, aqua bacteria, amino acids and proteins. This nutrient supplement is used to reinforce the plant's growth.

It leads to a powerful growth and a healthy crop.

It is tuned to either hydro, soil or coco.

Available in 0,5 L, 1L (16 per box) and 5L.



and

Bloom stimulator

The bloom stimulator from ATAMI is absolutely unique. Despite imitations on the market, this product has an unrivalled effect on your plants. It provides all necessary stimulation of the growth of flower cells and also increases the production of sugar molecules and their transport around the plant. This results in full, strong

dense buds and an excellent yield.

Available in 500 ml (25 per box), 1L (16 per box), 5L and 10L.



Bio defence 1 and 2

Just like man, plants also develop antibodies against diseases, germs, insects and fungi. These antibodies are called alkaloids. They are specific types of protein. B'cuzz Bio defence stimulates the production of these substances, making it very difficult for harmful organisms to survive.

Available in two bottles that are to be used together. 2 x 50 ml and 2 x 250 ml bottles.

Nutrients

In recent years the use of different substrates has considerably increased. Examples are stonewool, cocos and soil. Each type of soil has its own air and water management characteristics.

ATAMI nutrients are composed of the purest raw materials with elements of Food Grade quality. They are entirely tailored to the specific type of substrate leading to maximum output. The ideal NPK-ratio ensures a powerful growth.

They are also economical, environmentally safe and available in 1L (12 per box), 5L, 10L and 20L.



Hydro

growing on stonewool cubes or slabs, mapito (flakes), clay pebbles, PU-slabs and recirculating systems

Characteristics: substrate forms no connection with the nutrients



Coco

growing on cocos soil

Characteristics: substrate contains a lot of air and little water, high absorption of fertiliser substances



Soil

growing on organic soil, containing peat mixtures.

Characteristics: substrate contains nutrients leading to savings.

NPK value of A+B nutrition (%)

Hydro 19 – 15 – 27

Soil 21 – 14 – 28

Coco 21 – 16 - 19

ATA Products



ATAZYME

Atazyme contains 100% natural multi-enzyme preparations with more than 14 different vitamins. Atazyme speeds up the breakdown of dead plant remains and reinforces the plant's natural defence system. Atazyme can be combined very well with regular plant nutrients.

Available in 1L (12 per box), 5L and 10L.



PK 13-14

Pk 13-14 is a high-quality preparation with Phosphorous and Potassium. Especially suited for the flower phase of the plant. Pk 13-14 is fully soluble in water and can be absorbed directly by the plant. Pk 13-14 ensures firm, dense buds.

Available in 1L (12 per box) and 5L.



ATA XL

Ata XL is a combination of a growth and bloom stimulator and can be deployed on every soil type and during each phase of the plant's development process. It is simple and effective.

Dilution rate is 1 to 1000.

Available in 1L (12 per box), 5L and 10L.



ATA Clean

Ata Clean is a cleansing agent for irrigation systems. Ata Clean prevents and removes mineral deposits of Calcium, Iron Phosphate and algae. Especially effective when water from the tap water supply is being used. Ata Clean has a dosage of 1 to 10,000.

Available in 250 ml (16 per box), 1L (12 per box) and 5L.

ATA Organics

Ata Organics is a biological product range.



Flavor

Flavor is an organic flavor and taste improvement agent on a basis of molasses.

Ata-organics can also be applied as an extra dosage of potassium.
N-P-K: 1.5-1-9. Add from the 4th week of flowering.

Not suitable for irrigation systems!

Available in 1L (12 per box) and 5L.



Bloom- C

Bloom-C is a liquid yield-increasing organic fertilizer made primarily from algae and seaweed extracts.

It contains a rich mixture of amino acids, trace elements, vitamins, enzymes and natural plant hormones.

N-P-K: 1.5-13-14. Add from bloom forming.

Do not use in combination with lime!

Available in 1L (12 per box) and 5L.



Growth-C

Growth-C is a liquid growth-enhancing organic fertilizer.

Ensures a healthy, green and firm crop.

N-P-K: 8-3-6.

Available in 1L (12 per box) and 5L.



Atami Kilo-mix

The Atami Ata-organics 'all in one' soil is a heavily fertilised soil enriched with worm fertiliser, Calcium, Guano and other organic fertiliser substances.

The well-balanced soil ensures a supply of nutrients spread out over a longer period of time.

The Ata-organics soil is available in 50L bags.

SUBSTRATES



B'cuzz Mixed fibre

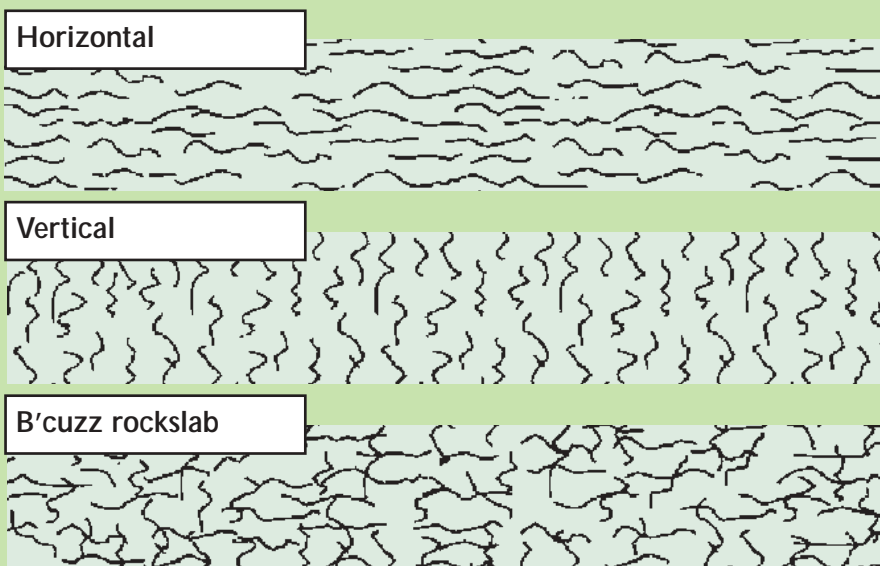
Stonewool substrate is made primarily from basalt. Basalt is a type of stone that originates in the earth's interior and is brought to the surface as lava. Liquid basalt is spun in a centrifuge until the desired fibre structure is achieved. The advantages of B'cuzz stonewool are:

- it is researched in scientific Atami laboratories
- it produces higher yields
- it is inert and pathogen-free
- it is light, easy to transport
- it is more efficient with water and energy use
- it is also recyclable

Atami proudly introduces their new range of B' Cuzz stonewool propagation and growing products produced exclusively for Atami in Holland. The introduction of the B' Cuzz line is changing the current stonewool market. B' Cuzz stonewool technically superior products will, prove to grow strong crops and be incredibly cost effective.

One example of the B' Cuzz stonewool revolution is the special growing slab, which incorporates the exclusive "Mixed Fibre Technology." This slab has a unique structure that literally has the fibres running in all directions. This slab will turn out to be the industries best: It is a strong, homogeneous and extremely consistent slab. The slab's strength ensures that a perfect and stable air-to-water ratio is maintained throughout the crop cycle. The additional advantages of the mixed fibres are: (1) fast root development with good initial growth and earlier production (2) very accurate control of water content and nutrition, (3) extra air-content due to a larger number of air pores.

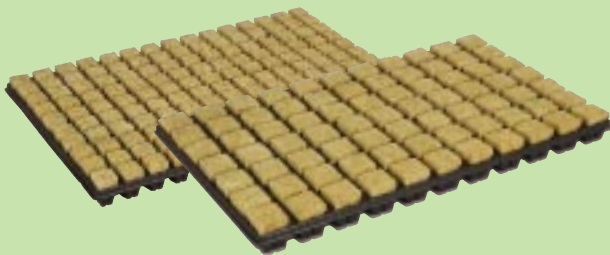
The density and fibre orientation of the B 'Cuzz full line of propagation products is similar to that of the B'Cuzz slab with one difference being a significantly smaller fibre diameter. This provides a high degree of water retention which makes easier rooting possible for young plants. B Cuzz blocks are extra strong ensuring that the stonewool will retain its structure and characteristics throughout the entire propagation and production stages. One industry insider, after experiencing the B'Cuzz difference, tells us that "the slab and the complete line of B'Cuzz stonewool products dramatically outperforms currently available stonewool products. This will force other manufacturers to scramble to keep up." Experience the B'Cuzz stone wool difference for yourself. Example:



Because the root fibres of the plants in the Original Dutch stonewool have no direction, the roots will better spread in the mat. This causes a much better humidity and nutrition through the mat. Therefore the mat is fully used.

This results in a defensible root system, which feels very comfortable in this unique mat structure.

There are 3 basic Atami stonewool products:



B'cuzz PLUGS

Small plugs for the little plant clones, beginning as baby plant.

The new plugs result in a maximum number of useable and homogeneous seedlings or clones.



B'cuzz BLOCKS

Little blocks at the size of 75 by 75 mm and 65 mm high. The hole for the plug is 28 or 38 mm wide.



Big BLOCKS

are much larger, 150 mm by 150 mm by 135 mm high.

Two plugs in it 28 and 38 mm



B'cuzz SLABS

It is a complete slab of 1 meter length.

If you want other sizes please call the service number 0031 73 522 3256
All B'cuzz stonewool products are made in Holland



B'cuzz Bio-Soil

Growing in lightly fertilised biological soil means growing in 100% natural soil, a well-aired medium without disease organisms. Atami was able to reach an air content in the Bio-soil substrate of 25% without using perlite. The lightly fertilised soil contains starter nutrients to enable plants to immediately begin their exuberant growth. After the successful start, Atami advises to re-fertilise the plants with liquid fertiliser for an optimal result. ATAMI supplies B'cuzz soil in bags of 50L. (70 bags per pallet).



B'cuzz Janecomix

Janecomix is a lightly fertilised soil enriched with perlite and starter nutrients. The lightly fertilised soil contains starter nutrients to enable plants to immediately begin growing exuberantly. After the successful start, Atami advises to re-fertilise the plants with liquid fertiliser for an optimal result. Janecomix is available in bags of 50L.



Atami Kilo-mix

The Atami Ata-organics 'all in one' soil is a heavily fertilised soil enriched with earthworm fertiliser, an organic pre-mix, and a phosphoric rich type of Guano. The well-balanced soil ensures a supply of nutrients spread out over a longer period of time. The Ata-organics soil is available in 50L bags. 70 bags on a pallet



B'cuzz Coco Substrate

Growing in B'cuzz coco means growing in 100% natural soil made from coco dust and fibres. B'cuzz coco substrate is washed and buffered. The coco medium has good retention and direction qualities for water with nutrients so that an optimal absorption of the liquid nutrients may be realised. The B'cuzz coco is lightly fertilised.

ATAMI supplies Coco in bags of 50L and slabs of 19L (70 bags or 150 slabs per pallet)



B'cuzz Compressed Coco (GCB Block)

A completely new medium is compressed cocosubstrate, GCB. They are available in a little block of 18,5 by 18,5 cm by 6 cm high. B'cuzz compressed Coco is unlike other compressed coco products on the market because it is washed and buffered which results in very easy growing. This innovation removes the necessi-

for buffering which means one less step.

Just add 5 to 7 liters of water in the little black plastic blockbag, and it can rise above 20 cm. After that a simple and quick plantation



B'cuzz Compressed Cocoplank (GCB Plank)

B'cuzz cocoplank has the dimensions of 1 meter by 15 cm by 3 cm high.

It is also washed and already buffered which means that you don't need a buffering agent extra bottle.

After adding water to the plank it will rise to a 7 cm height.

to
in



B'cuzz Copito

Copito is made from rough coco fibres and chips. It can be used

increase air capacity in growing medium as well as a stand-alone medium. Tests have proven that Bcuzz copito can be used easily

recirculating systems. It is the organic alternative for mediums like stonewool cubes or Mapito. Copito is easy to transport, recycle and flexible in garden application or indoor home growing.

ATAMI supplies Copito in bags of 50L, 70 bags on a pallet.



B'cuzz Hydro Korrels

B'cuzz hydro korrels (clay pebbles) are of the highest quality and like the Bio-soil and the Coco substrate, it has the RHP standards.

The B'cuzz Hydro korrels has an excellent water holding capacity. Your clones or seedlings will root extremely fast in this medium.

of



B'cuzz Special Mix

B'cuzz special mix is a growing medium based on different sorts

peat and perlite. This golden mix is made from a 35-year-old recipe that originated from the quality growers in Amsterdam.

Not only is it packaged in a golden 50L bag, but also expect golden results using this old success formula.

B'cuzz special mix comes in 50L bags.

4. Plant development phases

The plant development phases are the stages from the seed until the full flower phase of the mature plant. At the initial stage the plant can be grown from a seed or a cutting from a parent plant. During each stage the plant has its specific needs. For example, there are substances to stimulate cell division, but also agents that enhance cell expansion and differentiation. On the basis of ATAMI laboratory research we have determined a special composition. Proteins, sugars, enzymes, minerals, amino acids, fatty acids and vitamins are the most important substances that plants need.

We distinguish four phases:

Plant phase:	stimulate roots: germinating or sprouting:	18 hours of light
Growth phase:	boost: start enhancing the growth process:	18 hours of light
Ready-to-flower phase:	reinforcing and stimulating flowering:	12 hours of light
Flower phase:	stimulating fruits, flowers and buds:	12 hours of light



5. B'cuzz growing schedule

The following schedule applies to soil, hydro and cocos.

The various nutrient products can be combined. The Ec-value lies between 1.0 to 2.2 and the pH-value between 5.5 to 5.8. Dosage indications for producing a nutrient reservoir of 100L.

Week	Soil nutrients A+B	Coco nutrients A+B	Hydro nutrients A+B	Root stimulator	PK 13-14	Booster	Bloom stimulator	Ata-clean
1	2x100-200ml	2x100-150ml	2x75-100ml	100 ml	x	50-100ml	x	10 ml
2	2x 100-200ml	2x100-150	2x100-150ml	100ml	x	50-100ml	x	10ml
3	2x200-250ml	2x150-200ml	2x150-200ml	x	x	25-50ml	100ml	10ml
4	2x250-300ml	2x200-300ml	2x200-300ml	x	x	25-50ml	100ml	10ml
5	2x250-300ml	2x200-300ml	2x200-300ml	x	150ml	25-50ml	150ml	10ml
6	2x250-300ml	2x200-300ml	2x200-300ml	x	150ml	25-50ml	200ml	10ml
7	2x250-300ml	2x200-300ml	2x200-300ml	x	150ml	x	200ml	10ml
8	2x250-300ml	2x200-300ml	2x200-300ml	x	150ml	x	200ml	10ml
9	2x250-300ml	2x200-300ml	2x200-300ml	x	150ml	x	200ml	10ml
10	2x250-300ml	2x200-300ml	2x200-300ml	x	x	x	200ml	10ml

6. ATA growing schedule

The following schedule applies to soil, hydro and cocos.

The various nutrient products can be combined. The Ec-value lies between 1.0 to 2.2 and the pH-value between 5.5 to 5.8. Dosage indications are for producing a nutrient reservoir of 100L.

Week	Soil nutrients A+B	Coco nutrients A+B	Hydro nutrients A+B	Root Stimulator	Ata-zym	Pk 13-14	Ata-xl	Ata clean
1	2x100-200ml	2x100-150ml	2x75-100ml	100ml	200ml	x	100ml	10 ml
2	2x100-200ml	2x100-150ml	2x100-150ml	100ml	200ml	x	100ml	10ml
3	2x200-250ml	2x150-200ml	2x150-200ml	x	200ml	x	100ml	10ml
4	2x250-300ml	2x200-300ml	2x200-300ml	x	200ml	x	100ml	10ml
5	2x250-300ml	2x200-300ml	2x200-300ml	x	200ml	150ml	100ml	10ml
6	2x250-300ml	2x200-300ml	2x200-300ml	x	200ml	150ml	100ml	10ml
7	2x250-300ml	2x200-300ml	2x200-300ml	x	200ml	150ml	100ml	10ml
8	2x250-300ml	2x200-300ml	2x200-300ml	x	200ml	150ml	100ml	10ml
9	2x250-300ml	2x200-300ml	2x200-300ml	x	200ml	150ml	100ml	10ml
10	2x250-300ml	2x200-300ml	2x200-300ml	x	200ml	x	100ml	10ml

7. ATA Organics growing schedule

For use: Grow-c: week 1 till 7, 100 ml per 100 liter water

Bloom-c: from week 2 dosing from 100 ml to 300 ml per 100 liter water during the cycles


Flavor: from week 7 100 ml on 100 liter water

Storing: At room temperature

Crystallisation: 0 degrees Celsius

Warning: not for internal use, avoid skin and eye contact, out of range of children

eC: 1.0 / 2.2 pH: 5.5 / 5.8

Week		Root Stimulator	Growth-C	Bloom-C	Bloom Stimulator	Flavor
1	18	100ml	100ml	x	x	x
2	12	x	100ml	100 ml	100ml	x
3	12	x	100ml	200 ml	100ml	x
4	12	x	100ml	200 ml	100ml	x
5	12	x	100ml	300 ml	100ml	x
6	12	x	100ml	300 ml	100ml	x
7	12	x	100ml	300 ml	100ml	100ml
8	12	x	x	300 ml	100ml	100ml
9	12	x	x	300 ml	100ml	100ml
10	12	x	x	x	x	x

Usage of B'cuzz in Nutriculture systems

Leaf or Grow cycle

Initial set-up (with young plants)

Fill the tank with a measured volume of water and add:

1ml / litre A nutrient
1ml / litre B nutrient
1ml / litre Root Stimulant

After 1 week add 1ml / litre tank volume of relevant hydro booster.

Topping up the tank Using CF / EC meter

Top up your tank as necessary with water, testing the solution strength daily. Gradually increase the solution strength over the course of the growing cycle until you reach the target strength (usually CF 20 – 22 or EC 2.0 – 2.2) by adding

2 parts A nutrient
2 parts B nutrient
1 part hydro booster

If the solution is changed during the growing cycle, bring to the desired strength using 1ml / litre hydro booster and equal parts A and B nutrients.

Topping up the tank without CF / EC meter.

Top up the tank using a solution containing

1ml / litre A nutrient
1ml / litre B nutrient
0.5ml / litre hydro booster

If the solution is changed during the growing cycle, refill using 0.5ml / litre hydro booster, 2ml / litre A nutrient and 2ml / litre B nutrient.

Flower or Bloom cycle

The solution should always be changed at the start of flowering and refilled as follows.

1ml / litre bloom stimulant
0.5ml / litre hydro booster
3ml / litre A nutrient
3ml / litre B nutrient

or equal parts A and B nutrient to achieve the target solution strength. This is the same if changing the solution again during flowering.

Topping up the tank using CF / EC meter

Top up with water and maintain solution strength using 3 parts A nutrient and 3 parts B nutrient to 1 part booster

Topping up the tank without CF / EC meter

Top up using a solution containing

1.5ml / litre A nutrient
1.5ml / litre B nutrient
0.5ml / litre hydro booster



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