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# CANNABIS

IMPROVE CANNABIS CULTIVATION WITH  
JAPANESE HUMIDIFICATION TECHNOLOGY

CONTROL THE HUMIDITY LEVEL WITH PERFECTION

# EMULATE THE NATURAL AND IDEAL GROWING CONDITIONS OF CANNABIS

## PROBLEMS IN GROWING ROOMS DUE TO LACK OF HUMIDITY CONTROL



### EFFECTS OF AN UN-CONTROLLED HUMIDITY LEVEL

SLOW PLANT GROWTH

DRYNESS

MOLD OUTBREAK

CONDENSE ON PLANTS

LOWER PRODUCTIVITY

LOWER QUALITY

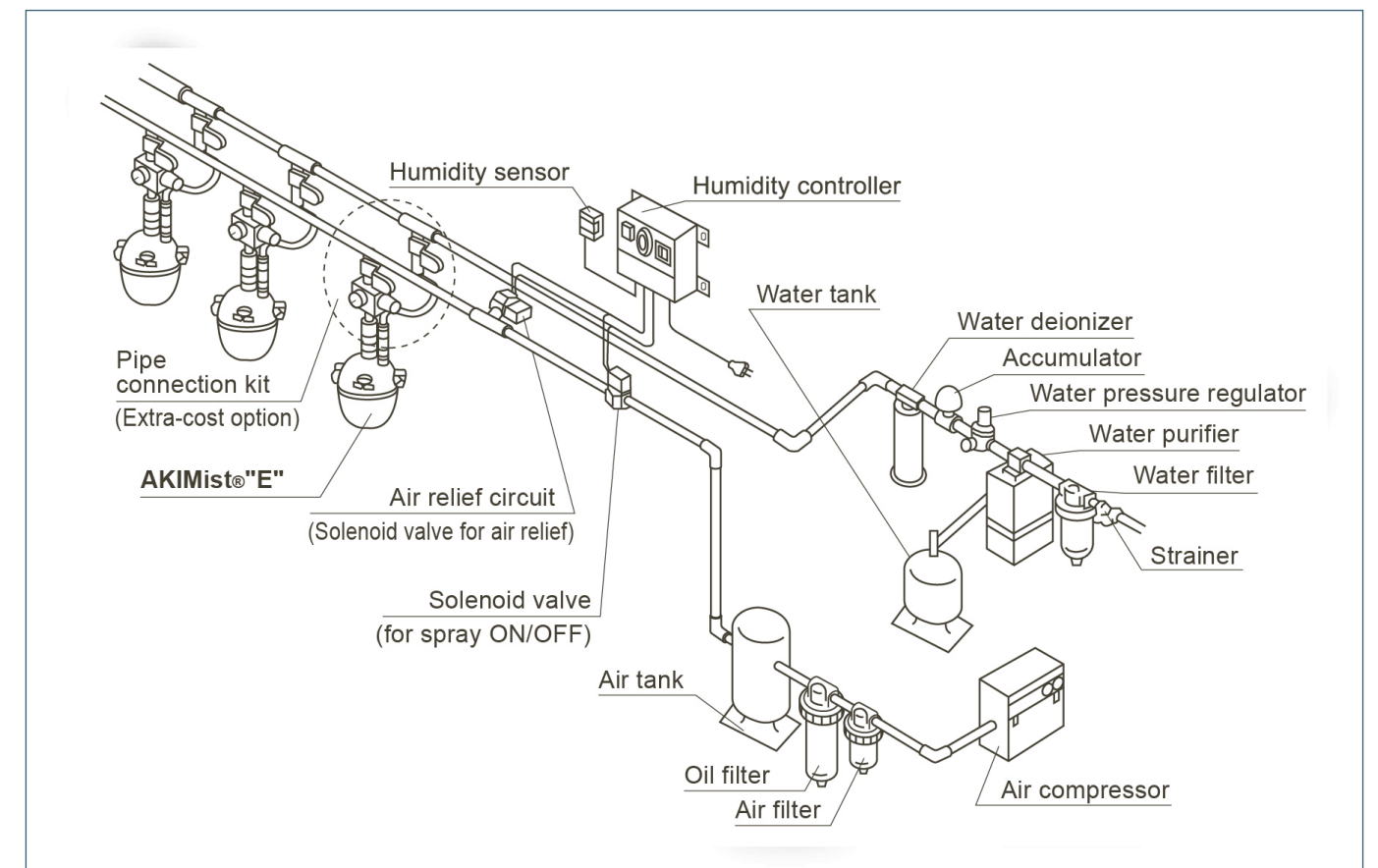
## STAGES

- 1 Propagation stage**  
The humidity level should be high around 75-90%
- 2 Development stage:**  
The humidity level should be very consistent at 60-75%
- 3 Flowering stage:**  
The humidity level should be lowered to 55-60%
- 4 Drying stage:**  
Humidity level should be lowered to 50-55%

## IKEUCHI'S SOLUTION: AKIMIST® DRY FOG HUMIDIFICATION

**AKIMist®** is a Dry Fog humidification unit which can be combined with control equipment, reverse osmosis equipment and several other units for a complete system solution.

**Non-wetting Dry Fog** sprayed from AKIMist® produces and maintains a humidity-controlled environment without creating water puddles. Spraying droplets at an average size of 7.5 µm, the water droplets evaporate before reaching any surface.



## STANDARD INSTALLATION

We offer tailor-made solutions.

Before installation of an AKIMist® system, we analyze the customer's needs and site to create the ideal environment.

Humidification system planning and layout are designed to meet each and every customer's requirements to achieve the desired condition.

## DRY FOG HUMIDIFICATION SYSTEM AKIMIST® ITS APPLICATIONS

### ● BE IN CONTROL

Managed by a control unit with timer or humidity sensor, an AKIMist® humidification system will keep a constant humidity level year-round in the growing room. Using demineralized water, its maintenance is easy and reduced to a bare minimum.

### ● FLEXIBLE INSTALLATION

Thanks to the small size of the Dry Fog humidifier AKIMist® (~5 inch), it is easy to install regardless of the existing air conditioning system. It is suitable for any type of configuration, even growing rooms with limited space, as it humidifies without wetting surfaces.

### ● NO CONDENSATION

Due to its tiny droplet size with an average of 7.5 µm, AKIMist® does not cause any condensation or wetness in the growing room. This ensures a homogeneous growth of the cannabis plants, and reduces the risk of mold.



## WHY IS AKIMIST THE BEST CHOICE FOR CANNABIS GROWING ROOMS

### AKIMist®

#### ● Energy efficient

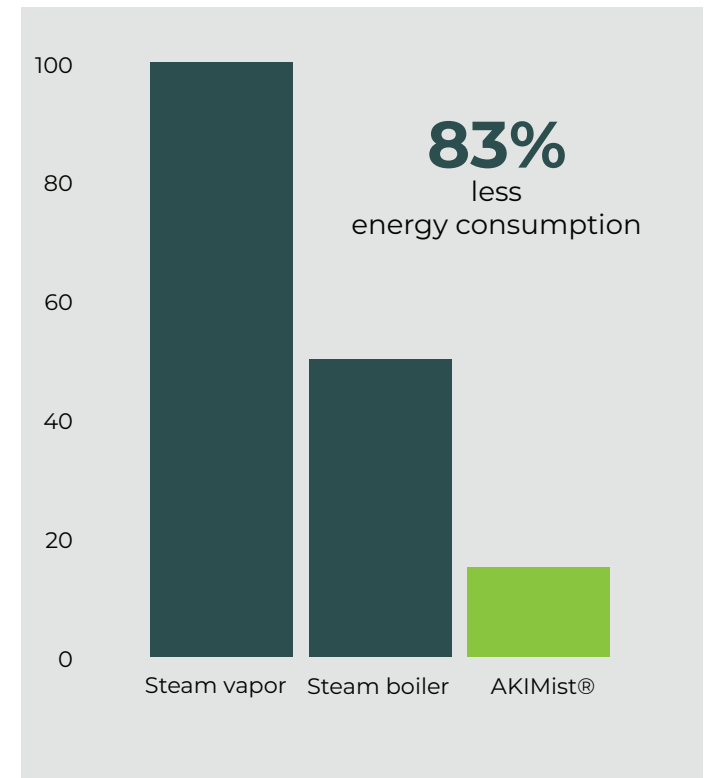
AKIMist® uses 83% less energy than conventional humidifiers such as steam.

#### ● Cost efficient

By switching from steam humidification to AKIMist®, you will save more than €50.000 per year on energy costs.

#### ● No risk of leakage:

Due to the tiny droplet size around 7.5 µm, AKIMist® is non-wetting. In addition, AKIMist® will stop spraying as soon as the compressed air is turned off, without any dripping.



## AVOID CONDENSATION IN CANNABIS GROWING ROOM

### WHY IS CONDENSATION A PROBLEM?

The build-up of condensation in a growing room is a serious problem, and can lead to mold growth and growth deficiency. Since cannabis needs a quite high level of humidity (60-75% during the development stage) the downfall can sometimes be an increase in condensation.

### HOW CAN CONDENSATION BE AVOIDED?

Condensation builds up due to a combination of factors such as lack of ventilation, improper temperature and humidity control, and lack of room sealing. Humidification equipment is often a large part of the problem as most humidifiers create water droplets in the humidification process. AKIMist® is different as it produces tiny droplets which evaporate before bursting on any surface.

### HOW CAN YOU AVOID CONDENSATION WITH AKIMIST





AKIMist® is known for its tiny droplet size with an average of 7.5µm. Droplets this small will rebound from an object without bursting, while large droplets will burst and wet the object, just like soap bubbles. If AKIMist® is installed by as little as a 3 meter distance from the cannabis plants, it will not cause any condensation on the leaves. With its compact size of only 5 inch, AKIMist® can easily be installed in a tight growing room. This saves costs on space utilization and leaves extra room for more produce.



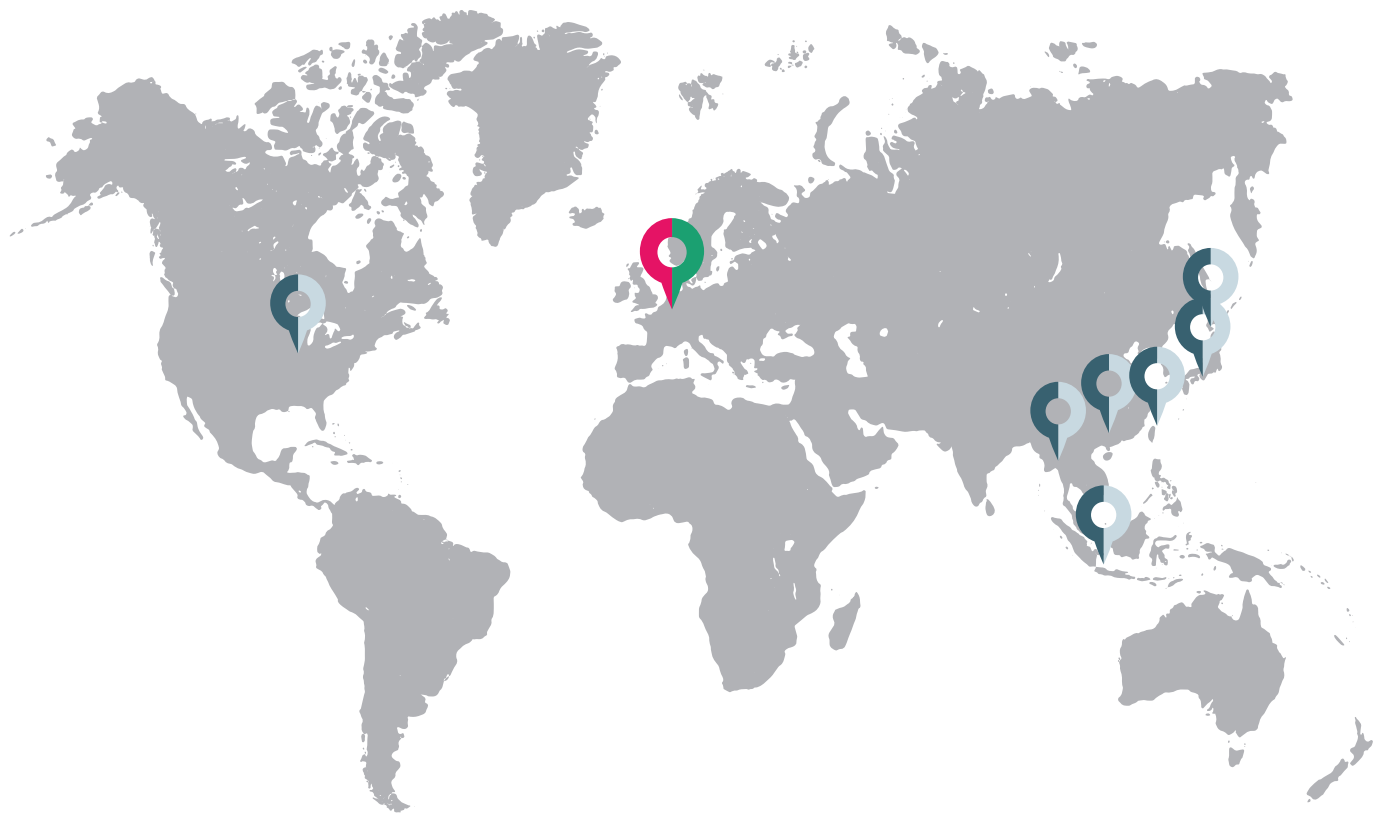
## DRY FOG HUMIDIFICATION SYSTEM AKIMIST® KEY ADVANTAGES

- ✓ Energy efficient with 83% less energy use than conventional humidifiers
- ✓ Easy installation to the ceiling or wall with our easy mounting kits
- ✓ Offers full control
- ✓ Low maintenance
- ✓ Compact design - 5 inch

## DRY FOG HUMIDIFICATION SYSTEM AKIMIST® ITS BENEFITS

 <p><b>Reduction of product losses</b></p> <ul style="list-style-type: none"> <li>■ Reduction of plant loss due to dryness</li> <li>■ Reduction of plant loss due to mold and fungi issues</li> </ul>	 <p><b>Energy savings</b></p> <ul style="list-style-type: none"> <li>■ 83% reduction in energy costs</li> <li>■ €50.000 saved per year</li> <li>■ Smaller environmental footprint</li> </ul>
 <p><b>Increased productivity</b></p> <ul style="list-style-type: none"> <li>■ Faster plant growth and maturity</li> <li>■ Less maintenance time</li> <li>■ Less transpiration of water</li> </ul>	 <p><b>Quality control</b></p> <ul style="list-style-type: none"> <li>■ Product quality increased</li> <li>■ Comply with GAP and GMP regulations</li> <li>■ Deliver consistent product quality and size</li> </ul>





Ikeuchi is a Japanese company with branches all over the world. It was founded in 1954 in Osaka and has since then expanded across Asia, North America and Europe.

For inquiries / information requests / quotations related to this product, please contact us



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**Ikeuchi Europe**

The fog engineers

“Taking the path less traveled”

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