



# Your microclimate expert

Air distribution specifically designed  
for indoor grow applications

# About us

KE GreenDuct supplies custom-made air distribution systems. We can design, calculate and document the air distribution for your indoor grow facility with consistent and predictable results. Our state-of-the-art manufacturing and weaving mill produces products only for air distribution. With our long history of successful indoor grow projects and cutting-edge testing and software, we are the microclimate experts that your facility needs.



## Our grow mission

Our philosophy is to start with the requirements and through dialogue design a solution that meets the expectations specified for a good indoor climate. Just as crops are different, each facility requirements are different, too.

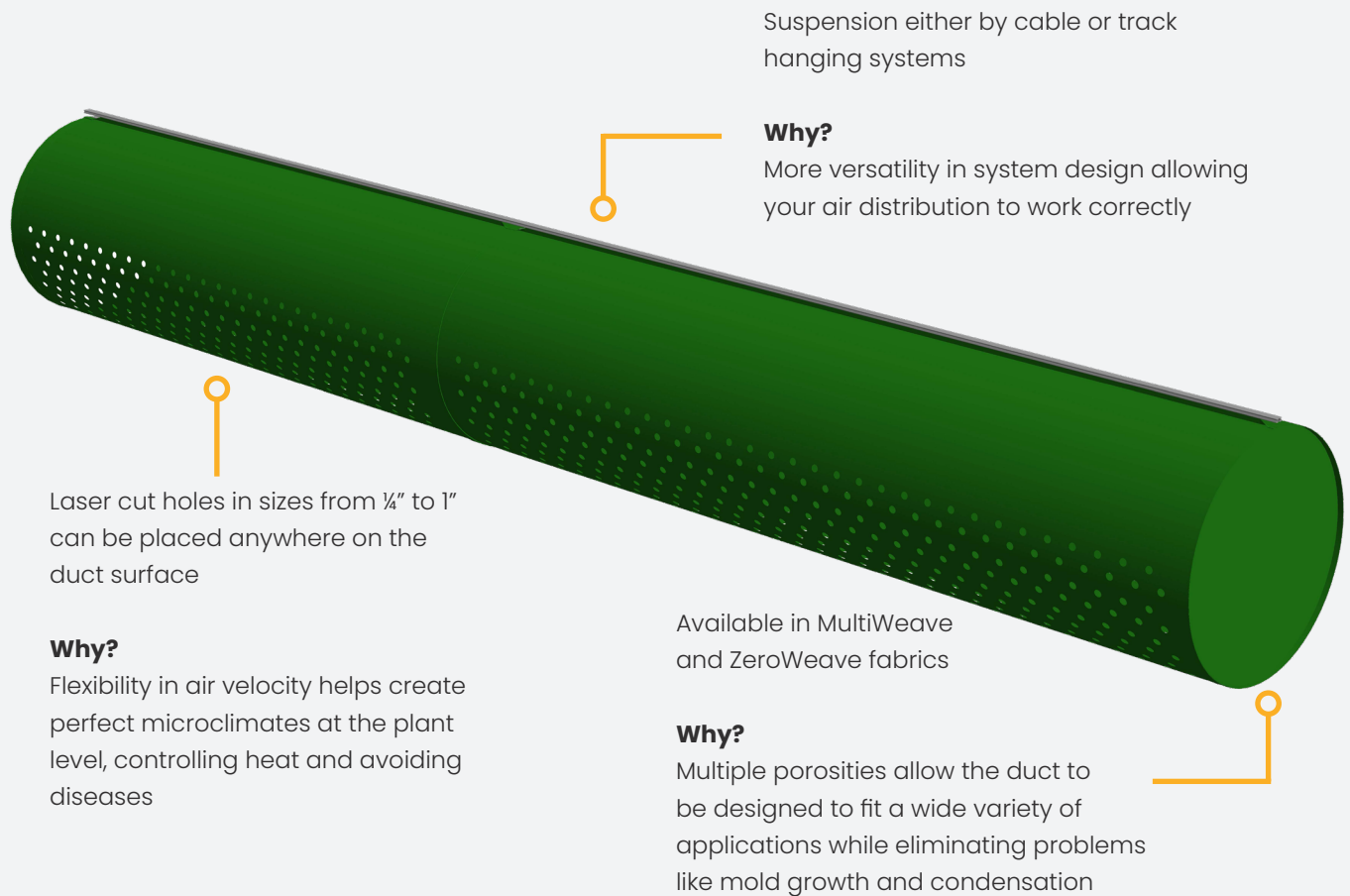
**Our mission is to be your microclimate expert!**

## Our history in food industry

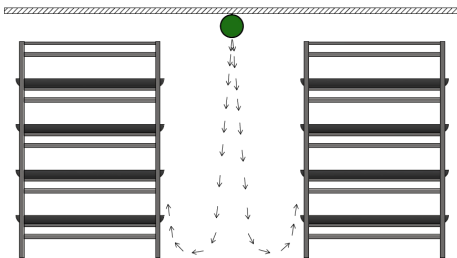
KE Fibertec who owns KE GreenDuct has almost 50 years of experience as a world leading supplier within textile based air distribution in the food industry. We have supplied several thousands of systems to a wide range of food facilities, like equalizing rooms in slaughterhouses or cheese ripening facilities, mushroom and lettuce production. KE GreenDuct has taken all that know-how and developed ducts that are specifically designed for indoor grow applications. We have designed new testing methods and software to ensure that each facility operates at maximum capacity.

# Why KE GreenDuct?

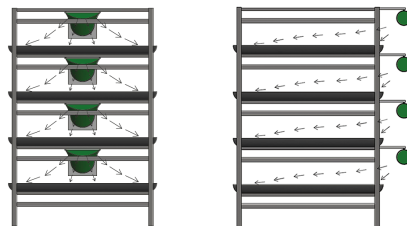
We offer versatile solutions to meet the needs of any indoor grow environment. Whether it be a rack system, a container or specialized room function our KE GreenDucts can give you consistent results. You will have the option to select multiple shapes and sizes that will be customized and designed for your application.



## Room solution



## Rack solution



# Vertical Farming product lines

The main target is to deliver air creating a uniform growing environment for the crops. Our product lines are uniquely designed.

## KE GreenDuct Breeze

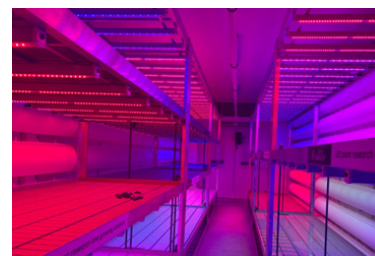
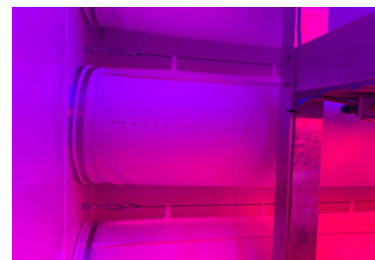
- Standard non-porous ZW material in white color
- Upgrade to MW2 (MW40) (porous material - no condensation)
- Possible to add Antibac E treatment (without silver ions) preventing mold growth
- Inject Flex holes ¼" to 1" (tailored design)
- UL-2518 approved
- Clean Room (class 4) certified
- From 4" to 34" diameter (Ø85 to Ø900 mm)
- D-shaped ducts in reduced height available from D4" to D34" (D85 to D900 mm)
- KE-Clips (cable) or SafeBulb (alurail)
- Conical reductions, clamps, zippers, SRDs as add-ons

## KE GreenDuct Eco



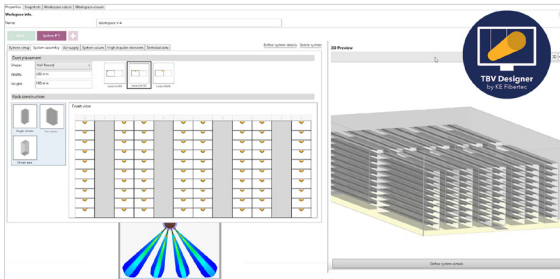
- Same product features available as KE GreenDuct Breeze
- Upgrade with sustainable Cradle to Cradle materials
- Multiple porosities available
- Cradle to Cradle certified product or materials
- Documentation provided for DGNB or BREEAM per inquiry
- Estimated maintenance cycle calculation per request

Go to [www.ke-greenduct.com](http://www.ke-greenduct.com) and find more details about our product lines



# State-of-the-art design with TBV Designer and testing in our lab

With our specially developed TBV Designer software, we are able to customize any design for your next vertical farming project. You only have to provide us with data such as required air flow rate, space dimensions and specifications for your project and we will design a system specific to your needs. At [www.ke-greenduct.com](http://www.ke-greenduct.com) you can explore some of the layouts made in this software.



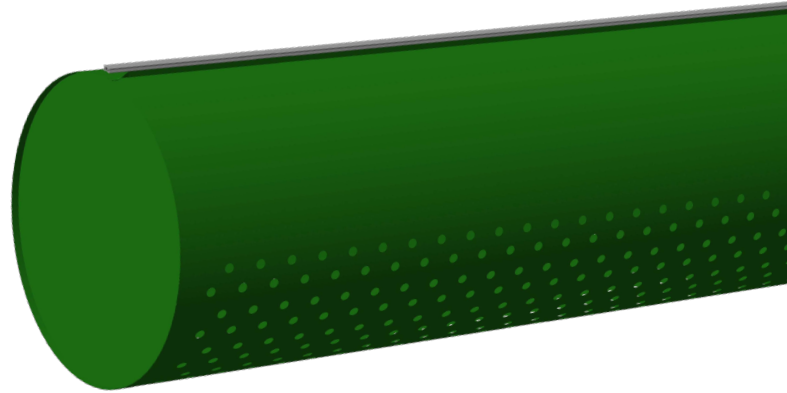
## Own weaving mill

KE Fibertec is the only manufacturer of textile ducts worldwide to have their own weaving mill. The weaving mill was established in 1977 and the weaving mill exclusively manufactures fabrics for textile duct ventilation which is a unique situation on the global market, and which gives us a valuable know-how on the woven materials to the benefit of our customers.



# The KE GreenDuct design includes

- Flexible duct design inside or outside the racks.
- Hygienic and washable fabrics. Optional with environmentally friendly antimicrobial treatment eliminating mold and fungi growth on the duct.
- A gentle continuous air movement around the roots to prevent stagnant air and growth of mold and fungus. We offer thermal air velocity simulation inside the grow chamber (width and length).
- Air visualization documentation (both cooling and heating mode).
- Lowest possible system pressure loss to reduce energy costs. Design for variable airflows (25% - 100% of nominal).
- Easy installation and maintenance with rail or cable suspension.
- Optionally an upgrade to a documented sustainable KE GreenDuct Eco, including Cradle to Cradle certification supporting DGNB or BREEAM standards.
- Calculation of estimated maintenance interval to know the running cost over time (only KE GreenDuct Eco).
- Laboratory mock-up with a full microclimate documentation report per inquiry.



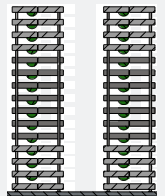
# We meet all your needs in air distribution

The KE GreenDuct line has been designed to function in any type of indoor grow application. Our wide range of products and services will help you get the most economic and consistent results.



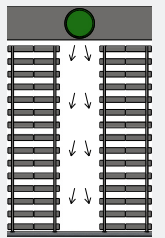
## Microclimate control

- KE GreenDuct is placed inside or right beside the racks
- Critical environment with active management of UV-light, temperature, humidity, carbon footprint and airflow
- Closed growth environment with high hygiene demands
- Applicable for closed containers or small growth chambers



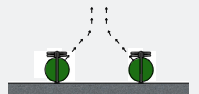
## Room climate control

- KE GreenDuct is typically placed in the room corridors or above the aisles
- The primary air flow is downward/sideward, and the secondary air distributes into the shelves/canopies
- Less critical growth environment



## Greenhouses (PE ducts)

- PE ducts typically placed underneath or above a fixed table/gutter construction
- Even and uniform distribution over the duct length with our patented DFC whole system



Read more at [www.ke-growair.nl](http://www.ke-growair.nl)

# Contact us about your next vertical farm project

## North America

2107 Emmorton Park Rd  
Suite 102, Edgewood, MD 21040  
USA  
P: +1 443 299 6435

### Contact

Ken Rummage  
kr@ke-greenduct.com

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## Western Europe

Industrivej Vest 21  
6600 Vejen  
Denmark  
P: +45 75 36 42 00

### Contact

Christian Pedersen  
chp@ke-greenduct.com

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## The Benelux

Simon Stevinstraat 23  
3291 CA Strijen  
The Netherlands  
P: +31 (078) 674 8475

### Contact

Theo Rijken  
tr@ke-greenduct.com

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## United Kingdom

Unit 5, Fareham Inn. Centre  
4 Meteor Way, Lee-on-the-Solent  
Hampshire PO13 9FU  
P: +44 (0) 2380 740751

### Contact

Mark Bailey  
mb@ke-greenduct.com

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## Eastern Europe

Žižkova 3095  
407 47 Varnsdorf  
Czech Republic  
Phone: +420 412 384 451

### Contact

Miroslav Mejsnar  
mm@ke-greenduct.com

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## Asia

Žižkova 3095  
407 47 Varnsdorf  
Czech Republic  
Phone: +420 412 384 451

### Contact

Miroslav Mejsnar  
mm@ke-greenduct.com

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