

# Going Green with Science the AHN\_ Way

GO GREEN

with **AHN\_**  
Biotechnologie  
GmbH

**Providing sustainable laboratory tools  
to help scientists do their best work**

Highlights of our sustainable production strategy  
and how we are actively working to reduce our ecological footprint.

# Overview

At AHN Biotechnologie GmbH we model our commitment to sustainable production through our environmentally-friendly manufacturing practices and products.

We have a wide range of sustainable laboratory consumables expertly crafted to help you reach your sustainability goals while practicing excellent science.

**100%**  
electrical injection moulding

= 40% less electricity consumption compared to hydraulic machines



**100%**  
recycled plastic

in production of AHN rack boxes  
= 11.3 million recycled tips in 2021



**100%**  
reusable racks

suitable for multiple autoclaving cycles



**65%**  
space saved

when using a reload system  
- reducing packaging and transport



**59%**  
plastic saved

when using a reload system



**Zero**  
additional plastic ingredients

packs, inserts and reloads are made entirely from recyclable polypropylene



**Unlimited**  
upcycling options

for reusing tip racks as storage solutions



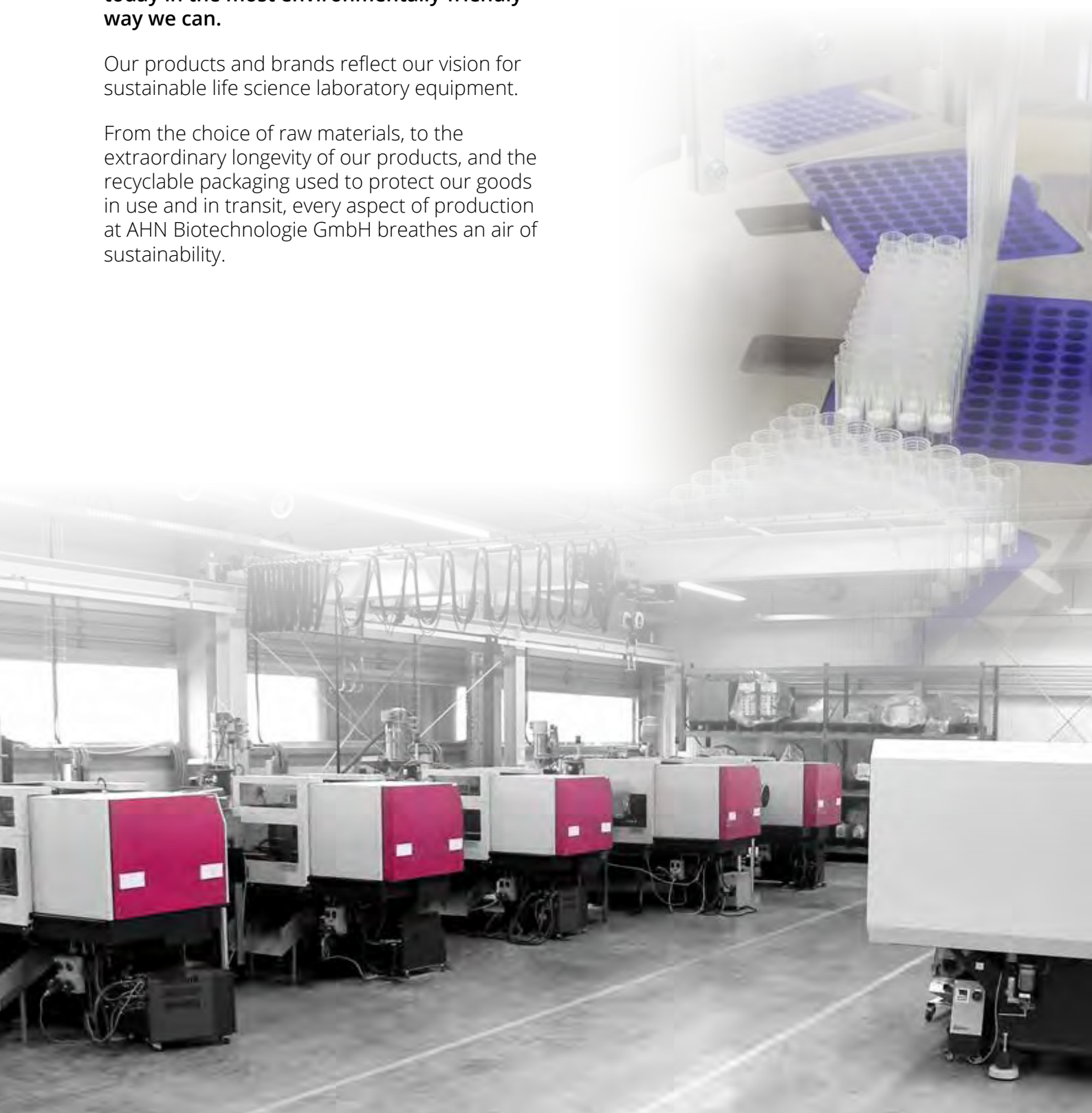


# Our manufacturing plant – powered by clean energy

**Our state-of-the-art manufacturing facilities feature sophisticated, energy-efficient equipment which build the products of today in the most environmentally-friendly way we can.**

Our products and brands reflect our vision for sustainable life science laboratory equipment.

From the choice of raw materials, to the extraordinary longevity of our products, and the recyclable packaging used to protect our goods in use and in transit, every aspect of production at AHN Biotechnologie GmbH breathes an air of sustainability.

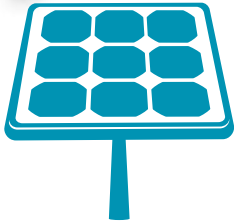
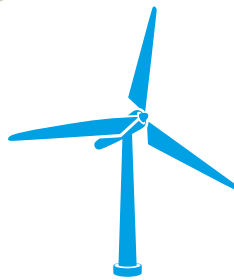


## Using 40% less electricity

By actively lowering our energy consumption we are trying to do our part in reducing the impact of the current energy crisis.

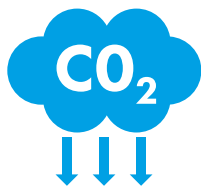
## Energy-efficient technology

We exclusively use injection molding technologies that use **40% less electricity** than the **hydraulic technologies** used by many of our competitors.



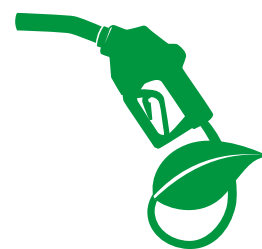
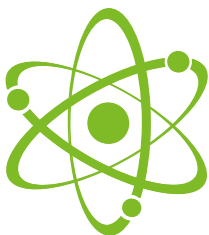
## Zero CO<sub>2</sub> emissions

**100% of the power** used to run our state-of-the-art manufacturing equipment is green electricity with **zero CO<sub>2</sub> emissions**.



## Green Electricity Certificate

We are proud to say that we hold a Green Electricity Certificate, valid through 2023, with a guaranteed supply of **1.5 million kWh/year** of green energy.





# Sustainable economics – driven by sustainable production

Despite the global economic crisis that has driven competitor prices through the roof, our sustainable manufacturing approach has helped stabilise both our prices and our supply chain.

Thanks to our investment in environmentally-friendly manufacturing we are proud to offer all our customers a **guarantee on prices through the end of 2022**.

This means you can buy your favourite laboratory supplies at the same low price that you have enjoyed this year and can increase your stocks in preparation for the next year of exciting scientific research!



# Sustainable Product Packaging – our commitment to recycling

AHN Biotechnologie GmbH currently holds the Green Dot (Der Grüne Punkt) certification — the European-wide network of systems which recover, sort and recycle packaging from consumer goods.

This certification clearly illustrates our commitment to responsible re-use and recycling.

As part of the Green Dot scheme we have transitioned **100% of our product packing materials** into sustainable packaging, meaning that our customers in Germany can easily recycle used packaging through this nationwide programme.



Saving the pl-AHN-et  
one product at a time!



# Unlimited upcycling options – be creative and have fun!

**Who said laboratory supplies have to be used for a single purpose?**

Utilise old AHN rack boxes for other purposes such as:



**Organising your  
stationery on  
your laboratory  
bench**

**Holding  
nitrocellulose  
membranes for  
immunoblotting**



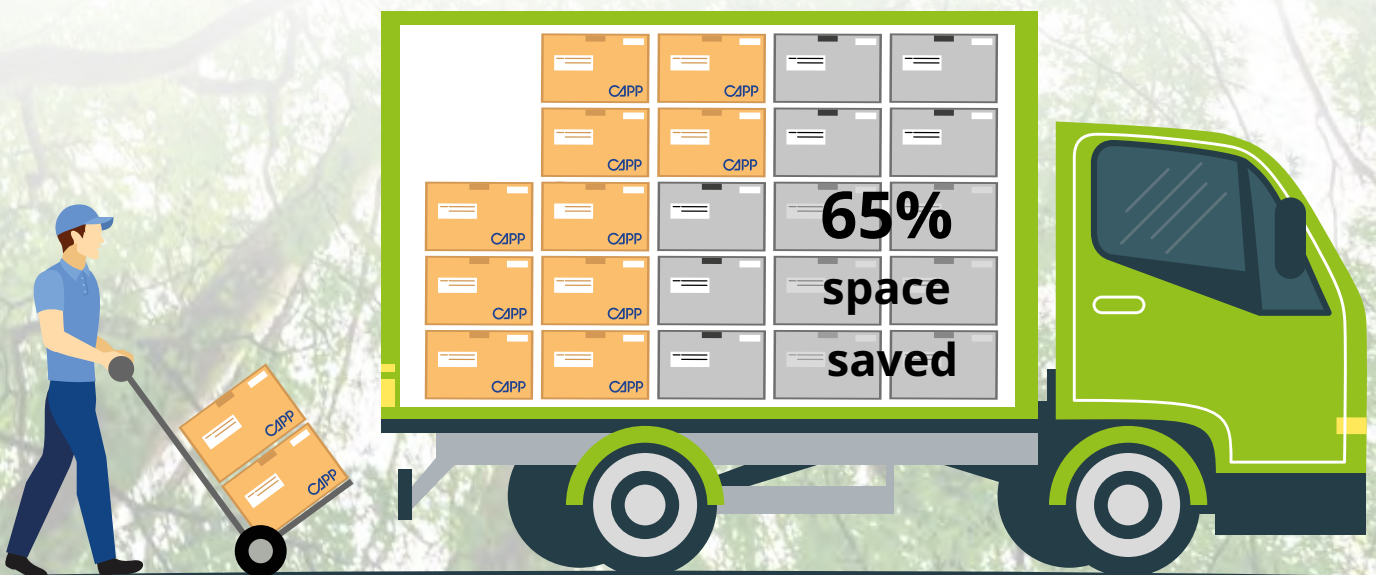
# Cleaner, greener transport – reducing our carbon footprint

Over the last few years we have worked hard to hone our skills in sustainable production, and one barrier we have overcome is that of product shipping.

With our revolutionary reload system, we have been able to save **65% more space** on each shipping consignment and also save valid benchtop space in your lab!



Consequently, this has reduced our overall carbon footprint in shipping and other transportation.





# Thinking of mother nature – responsible reduction of plastic waste

When plastics are not recycled properly they may end up breaking down into microplastics that harm marine animals.

With this in mind we have found some solutions.



# CAPP PaperBox Racks – far better than plastic!

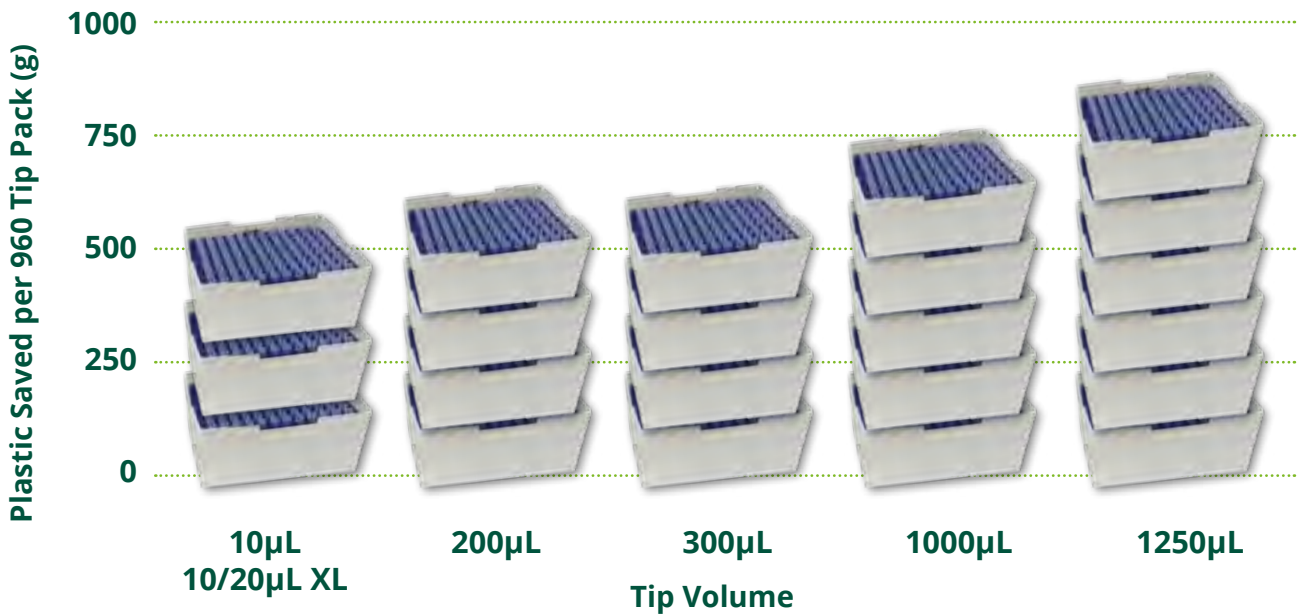
Our cardboard PaperBox racks are a green alternative to plastic racks; the perfect way for non-automated laboratories that rely on single-channel pipettes to save the environment.

Each robust PaperBox rack is totally reliable for pipette tip storage. They use innovative eco-friendly cardboard racks as an alternative to plastic racks and are 100% recyclable.

Supplied in space-saving dispenser towers for easier bulk transportation and greatly reduced emissions per box. On average, each case of PaperBox Filter tips reduces plastic usage by 665g.

*Did you know?*  
Ordering in bulk reduces plastic usage by  
**665g per case**

## Plastic saved using Paperbox Filter Tips versus Racked tips



**EXPELLPLUS**  
*PaperBox*

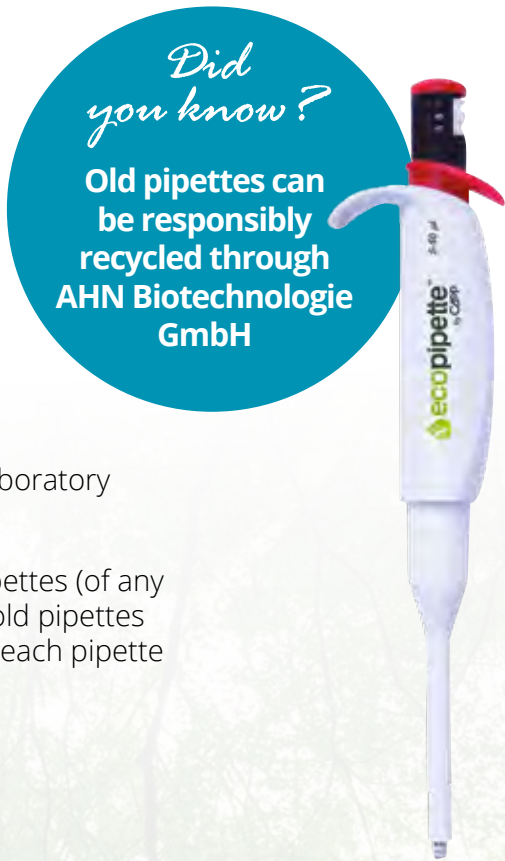


# Our Ecotrade Programme – the green economy

We fully realise that, by the very nature of some of our products, some can only be used for a short time, and sometimes just once. Our answer to this is to recycle as much as we possibly can and encourage our customers to do the same.

Customers can partner with AHN by incorporating sustainable laboratory practices through the ecotrade programme.

By partnering with a local distributor you can submit your old pipettes (of any brand, not just ours). Our distribution partner will then ship the old pipettes to our manufacturing facility where we will carefully disassemble each pipette into its individual component, following Green Dot guidelines.



## 03

### ENVIRONMENTALLY-FRIENDLY RECYCLING

As part of the Green Dot scheme (Der Grüne Punkt), AHN Biotechnologie GmbH will ensure the environmentally-friendly recycling of all components



## 01

### PIPETTE RETURN

Send your old pipettes, regardless of brand and condition, to your local distributor who will forward them to AHN Biotechnologie GmbH in Nordhausen, Germany

## 02

### DISASSEMBLY AND SORTING

Our dedicated team will disassemble all the components and sort them into plastic, rubber, metal, etc., in accordance with the German national recycling programme

# Reducing plastic through innovation – Expell Reload System

With the average laboratory spending being around 30-40% of the consumables budget on tips, buying bulk tips save the environment AND save you money!\*

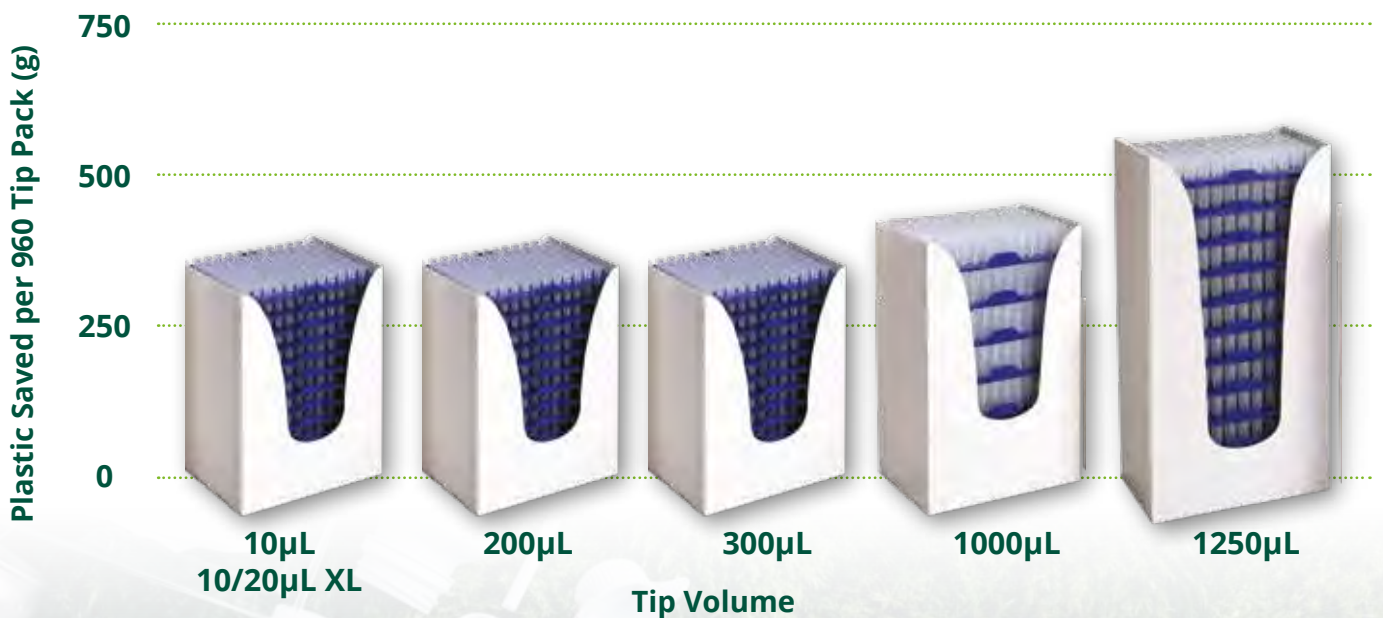
\*Source:  
grenovasolutions.com/plastic-pipette-tips-over-62-million-washed-and-reused/

With its compact footprint, the AHN Reload System is a sustainable solution for reducing plastic generation.

Compared to traditional racked tips, our reload tips use **429g less plastic** per case. As a result it's much more affordable than standard racked tips.



## Plastic saved using Reload tips versus Racked tips



**EX Pell**  
RELOAD SYSTEM



# Sustainable cryostorage solutions – CAPP Cryoboxes

AHN cardboard cryoboxes are the perfect solution for sustainable cryogenic sample storage and organisation

These eye-catching cardboard cryoboxes are designed for excellent ultra-low temperature performance and thermal stability. If you are searching for an environmentally-friendly option for your cryostorage these water-repellent boxes are a great option.

With our cryoboxes you don't have to sacrifice quality to save the environment.

Both are important!



EX Pell *Cryoboxes*

Cardboard Cryoboxes

- our environmentally-friendly cold storage option



# Join us as we continue to develop sustainable solutions for your laboratory

Visit the links below to learn more about our sustainable laboratory consumables.

**CAPP**

[capp.dk](http://capp.dk)

**ahn**<sup>®</sup>

[ahn-bio.de](http://ahn-bio.de)

**MAXXLINE**<sup>®</sup>

[maxxline-bio.de](http://maxxline-bio.de)

For more details on our sustainability approach, please visit our blog

[HERE](#)

[capp.dk/blog/sustainable-lab-consumables](http://capp.dk/blog/sustainable-lab-consumables)

