



NANO E- CATALOGUE, 3RD EDITION, 2023

GREEN TECH CLUSTERS: SUSTAINABLE BUILDINGS & INDUSTRIAL PROCESSES



**MINISTRY OF FOREIGN AFFAIRS
OF DENMARK**
The Trade Council

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Embassy of Denmark, Dhaka

Foreword

With cooperation and successful partnerships for over 50 years, Denmark readily offers innovative technologies for the green transition of Bangladesh contributing to a greener and cleaner future for both the nations.

This 3rd edition of the nano e-catalogue is an effort to make Danish technologies available to interested stakeholders in Bangladesh for sub-sectors in sustainable buildings and industrial processes.

This nano e-catalogue has been compiled and published by The Trade Council, Embassy of Denmark in Bangladesh.

Dhaka
April 2023

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Aguardio's easy-to-use solutions help people live more sustainably by reducing the amount of water and energy they use in the bathroom.

Aguardio believes that the future depends on greater care and respect for the world's resources. Aguardio's sensors help capture, interpret, and communicate water consumption data and translate it into knowledge on behavioural change. They also alert to unnecessary water waste, by detecting leaks from toilets and taps.

Our solutions empower our customers and users to understand the challenges and potentials to reduce water waste.



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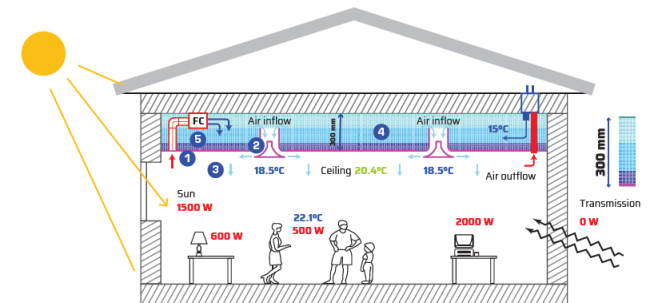
AJS Ventilation is a joint venture between the Danish JS Ventilation and the Bangladeshi ABG Interlinks, established in April 2018. AJS Ventilation brings Danish technology in Bangladesh with a fully trained workforce. ABG Interlinks Ltd. and JS Ventilation's partnership, is offering a fresh and very focused approach to the market of ventilation equipment. It's a partnership accompanied by Danish know how and Bengali competencies.

With the use of natural laws and smart design, AJS Ventilation has invented a combined cooled ceiling and ventilation solution, *Cool Ceiling*, which can reduce the building height or provide space for more floors when constructing multi-story buildings. This means: no ducts, design freedom, shorter construction time, no maintenance, and it contributes to lower energy consumption.



Ventilation principles

- ✓ Sustainability
- ✓ Innovative and simple
- ✓ Aesthetics and common sense



Ceiling Radiative cooling: 72 W/m²
 Air cooling: 40 W/m²
 Floor area: 114 m²
 Ceiling height: 2.7 m

- 1 Metal ceiling
- 2 Air inflow unit
- 3 Cool air
- 4 Hollow space/
Pressure chamber
- 5 FanCoil = FC (Optional)



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Aquaporin is an innovative water technology company dedicated to natural water treatment. Aquaporin works to preserve water by combining advanced bioengineering, open innovation and natural aquaporins – nature's own water purifiers, which are embedded into the water purification membranes. Their proprietary technology, Aquaporin Inside®, is based on Nobel Prize-winning research. It is used to clean and reuse water in industries, homes and even by NASA in space.

Aquaporin's two-fold approach of treating industrial water consists of the use two different membrane-based treatment technologies. Aquaporin Inside® CLEAR Brackish Water Reverse Osmosis elements delivering high-quality permeate and low energy consumption is used for process water. Aquaporin Inside® forward osmosis modules reduces wastewater volume up to 50 times and increase water recovery by up to 98% is used for wastewater.



Aquaporin Inside® Hollow fiber forward osmosis modules – for improving water reuse and reducing wastewater



Aquaporin Inside® CLEAR - High Capacity Low Energy Advanced Reverse Osmosis Element Series



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Email: info@bactocon.com

BACTOCON is a company specialized in simple wastewater solutions.

Our goal is to make our systems low cost and environmentally sustainable ie. solar driven and produced by unskilled labours locally.

BACTOCON develops tailor made systems as well as systems that can be produced in larger numbers joined and up/ downscaled as a very flexible system for either domestic or industrial wastewater treatment.

We have more than 25 years' experience in making solutions that satisfy our customers.



ecoBETA®

Award-Winning Water-Savers

Organisation: ecoBETA A/S

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ecoBETA addresses water shortages with affordable high quality products. Instead of vast investments into the infrastructure, ecoBETA offers economical products for the final part of the water supply chain – the end customer. ecoBETA's signature product is a dual-flush toilet valve with ONLY 1 button. The ratio of small flushes at public places and businesses goes up to 95%. Hence, having conventional dual-flush toilet valves with dual-button causes only confusion and misuse of the big flush. By applying ecoBETA, we guarantee a minimum of 25% water conservation after installation overall and up to 50 % of water conservation per flush.



Europa

eco2LIGHT

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eco2LIGHT A/S developed a product that could withstand the heat and dust – as well as going from 1000W halogen to 200W LED with lenses to give the lights where it is needed and not just spread around the lamp.

Additionally the power stabilizing controllers have relatively long life expectancy. Using their know-how in transient/in-rush power control the LED “green” lights use less power.

The lights of eco2LIGHT reduce CO2 emissions, are more environmentally friendly, reduce power consumption thereby saving energy savings and improve working condition. It can help the user become more environmentally friendly and ready for adopting more sustainable practices.



High Roof WITH surge protection on each item



Below 240.000 LUX with SURGE and Transient PROTECTION for large outside areas



Retro-fit solutions WITH Isolated driver inside



Organisation: Eldan Recycling A/S
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Email: cn@eldan-recycling.com

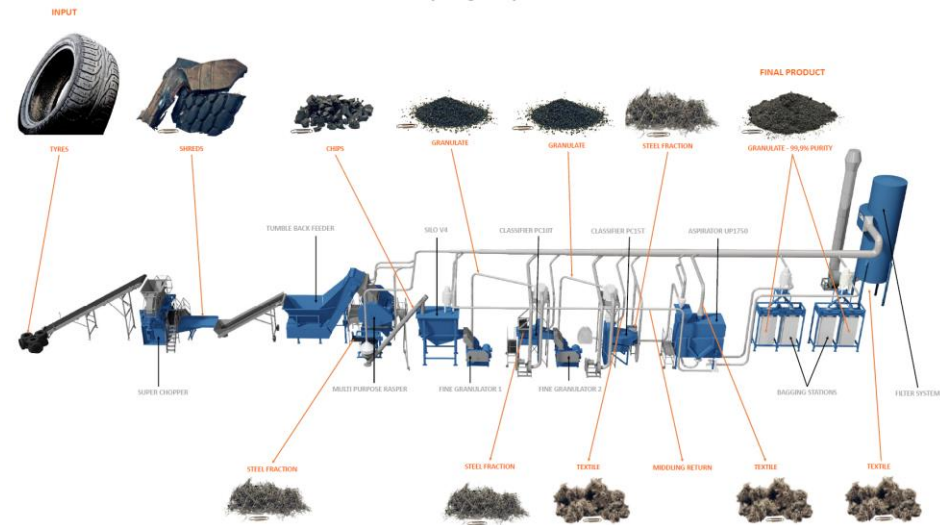
Equipment For Profitable Recycling
Eldan Recycling has delivered machines and plants to the recycling industry worldwide since 1956.

We have know-how in equipment for recycling of:

- Tyres
- Cable (including REDOMA Recycling)
- Electronic waste (WEEE)

Proven technology - made by ELDAN

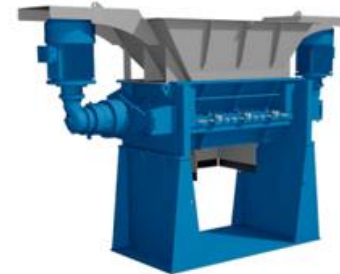
ELDAN is one of few companies supplying equipment to the recycling industry that still primarily produces their machinery in-house. The track record proves more than 1100 complete systems and 8000 single machines delivered world-wide. The ELDAN plants are “multi-size” plants, and it is merely a question of changing the screen combination in the machines if you wish to produce a different output size.



Tyre plant E4000T

Super Chopper

Up to 18000 kg/h



Multi Purpose Rasper

Up to 14000 kg/h





Organisation: Firexpress A/S

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Firexpress produce First Strike Firefighting concepts, designed to give an immediate first strike capability on a wide range of different types of fires - from deep-seated Class A fires to difficult class B and electrical fires.

Firexpress's products use the combined micro-drops/foam technology which enable the user to perform maximum firefighting with minimum use of water and foam under due consideration of the environment.

The product portfolio contains a range of systems able to satisfy any need for mobile and stationary firefighting equipment. Constantly improving and developing new designs for customers' special requirements, Firexpress has customers in more than 40 countries world-wide.



Tank Unit



Mobile Units



50L Trolley



150L Cart



Motorbike



UTV



ATV



Organisation: FLSmidth Private Limited

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Sustainable productivity through innovation

FLSmidth is a full flowsheet technology and service supplier to the global mining and cement industries. We enable our customers to improve performance, lower operating costs and reduce environmental impact. MissionZero is our sustainability ambition towards zero emissions in mining and cement by 2030. FLSmidth works within fully validated Science-Based Targets, our commitment to keep global warming below 1.5°C and to becoming carbon neutral in our own operations by 2030.

As a technology leader in the mining and cement industries, we consider it our responsibility to be a key sustainability partner for our stakeholders, driving sustainable business practices across the industry value chains. Sustainability is therefore a core component of our company's strategy.



Slurry Pumps



OK™ Vertical Roller Mill (VRM)



High Pressure Grinding Roll





Organisation: GRUNDFOS

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Locus, Tower 52, Level – 05, Road – 11, Banani, Dhaka
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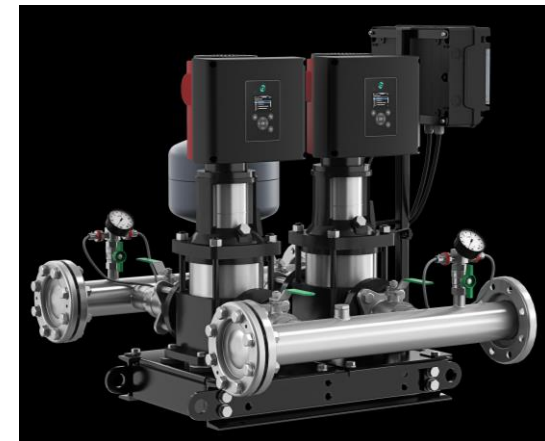
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GRUNDFOS is a global water technology company committed to pioneering solutions to the world's water and climate challenges and improving the quality of life for people. We are an organization with local mind set in understanding customer needs and offering our solutions. Sustainability is in everything we do tirelessly to improve water and energy efficiency and believe in making a difference. Grundfos offers application specific solution, encompassing efficiency, reliability and customized offerings for every industry.



CRE Pump



Hydro Multi- E Pumps



Organisation: Hempel Paints Pvt. Ltd.

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Hempel develops and manufactures coating solutions for the protective, decorative, marine, container, industrial and yacht segments. Across the globe, Hempel products protect, beautify and improve the performance of customers' most valuable assets.

At Hempel, the purpose is to shape a brighter future with sustainable coating solutions. With the firm belief that success will follow if sustainability is at the core, Hempel deems that not only is it the right thing to do, it will strengthen Hempel's competitive position, make them more resilient and reduce risk.

Hempel was founded in Copenhagen, Denmark in 1915. It is proudly owned by the Hempel Foundation, which ensures a solid economic base for the Hempel Group and supports cultural, social, humanitarian and scientific purposes around the world.





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Dealer Address: Nextech Solutions Limited.

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Nilfisk is an established leader in cleaning technology; our products are designed by some of the most knowledgeable experts in the industry, and our solutions ensure a high hygienic standard across a variety of applications. We are committed to a cleaner world, and we are driven by our passion for innovation, knowledge, sustainability, and transformative technologies. In recent years, Nilfisk has embarked on a strategic journey. We set out to transform the company to sustain our position as a leader in the professional cleaning industry and prepare our organization to compete in the new era of intelligent cleaning. As a trusted partner when it comes to equipment and services anywhere in the world, we make it our business to help our customers maximize their performance.

Our specialty product line includes - commercial, industrial floor cleaning equipment, maintenance equipment, cleaning equipment, floorcare, autonomous cleaning solutions, consumer goods, and high pressure washers.



Autonomous Floor Cleaning



Oil and Shavings VAC



Combination Machines



Scrubber



Food Pharma and OEM



Sweeper



Single Phase Wet & Dry Vacuum Cleaner



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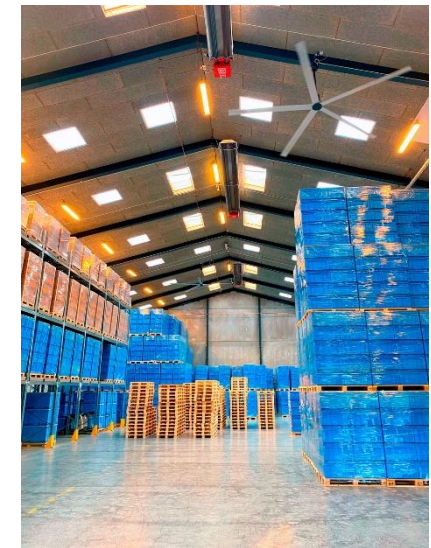
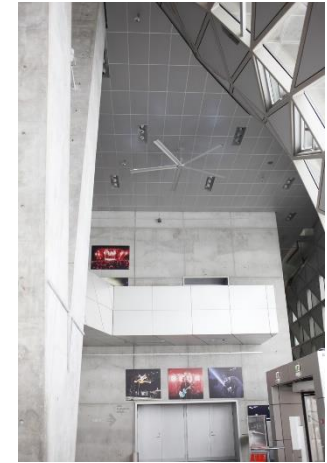
Email: Mathias@nordicco.eu

Nordicco A/S is a Danish technology company that develops and manufactures advanced air-movement solutions. We design products that combine indoor climate and comfort with energy savings and data.

Nordicco® products cover the entire palette of wishes. From small, elegant ceiling fans to the market's largest HVLS fans. As something quite unique in the industry, we also integrate IoT into several product lines.

Our solutions deliver superior air flow, significant energy savings and increased comfort to building owners and occupants worldwide. We design fans from 1,5 to 7 meters in diameter and everything in between – such as solutions with built-in air disinfection capabilities to help prevent the spread of disease.

Nordicco® is based in Denmark where products are designed, tested and manufactured and our solutions are used in commercial, institutional and industrial buildings all over the world.





Organisation: FH Scandinox A/S

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FH SCANDINOX A/S – “the partner in food process engineering”.

A leading world-wide supplier of Danish designed food- and beverage processing equipment. Proudly engineering and manufacturing new and second-hand equipment since 1979. Recent implementation of FH Scandinox’s own state-of-the-art technology centre in Denmark offers customers the possibility of testing innovative products in pilot scale within the oils & fats industry.

Among others, Scandinox’s offers:

- Complete margarine lines
- Dairy- Ice cream equipment
- Other food- and beverage equipment
- Pilot plants
- Homogenisers
- Separators
- Stainless steel tanks
- Sanitary pumps
- Sanitary valves
- ‘One stop’ spare part supply



Pilot Plant

SolarLab

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SolarLab designs and produce bespoke electricity producing facades that invisibly integrate high-efficiency PV on both new buildings and renovations. Available as ventilated rain-screens, curtain-walls and louvered solutions they replace traditional claddings with a low-maintenance, durable and dynamic material and positive financial and environmental return on investment. Solar facades go beyond BIPV and provide cost and carbon free electricity that ensure resiliency without sacrificing rooftops, so they can be utilized for social activities, rainwater management or micro-climate and biodiversity supporting green roofs.

Solarlab provide design freedom to panellise a facade with a non-fading and self-cleaning material to ensure a long life and seamless integration. We produce our solar-facades in Denmark and engineer them for longevity, resiliency and a circular resource economy.



THE
AMINODAN
GROUP

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Aminodan is a company specialized in wastewater treatment for fulfilling the requirements for releasing the water into sewage system or into a natural emissary. For this, we are using Aminodan DAC and Aminodan AMB technology.

Aminodan has delivered complete treatments systems until now up to a capacity of 1.400 m³/h (33.600 m³/day) and has an international presence. Aminodan already now have projects in Bangladesh in textile industry and industrial parks.

Aminodan systems are custom made and designed in Denmark.

Aminodan has more than 55 years of experience in wastewater treatment.





SolarLab



THE AMINODAN GROUP



eco2LIGHT

