nnc

new nordic data cooling

Energy efficient data cooling made in Europe

100%
EUROPEAN

A REVOLUTIONIZING REAR-DOOR SOLUTION FOR EFFECTIVE DATA CENTER COOLING

As more high-density IT applications are consistently introduced, the demand for data increases, thereby raising the need for effectively cooling the mission-critical server racks in data centers.

New Nordic Data Cooling provides a patented liquid cooling solution for server racks ranging from 2 to 200 kW per cabinet, while also minimizing the energy required for the process.

New Nordic Data Cooling has designed, engineered, and produced a groundbreaking 100% European cooling solution: a rack-mounted rear door heat exchanger for optimal heat recovery in data centers.

The New Nordic Data Cooling-solution® supports the world's expanding data requirements and the necessity for efficient cooling. Simultaneously, it addresses future sustainability and scalability needs.

FUNCTIONAL OVERVIEW

The New Nordic Data Cooling-solution consists of a frame with a rear door heat exchanger that directly mounts onto the back of server cabinets.

1 The heat exchanger captures waste heat from the server hardware, directing it onto a coil. The coil then eliminates the heat using a chilled water system regulated by a unit known as the Virtual Distribution Unit (VDU).
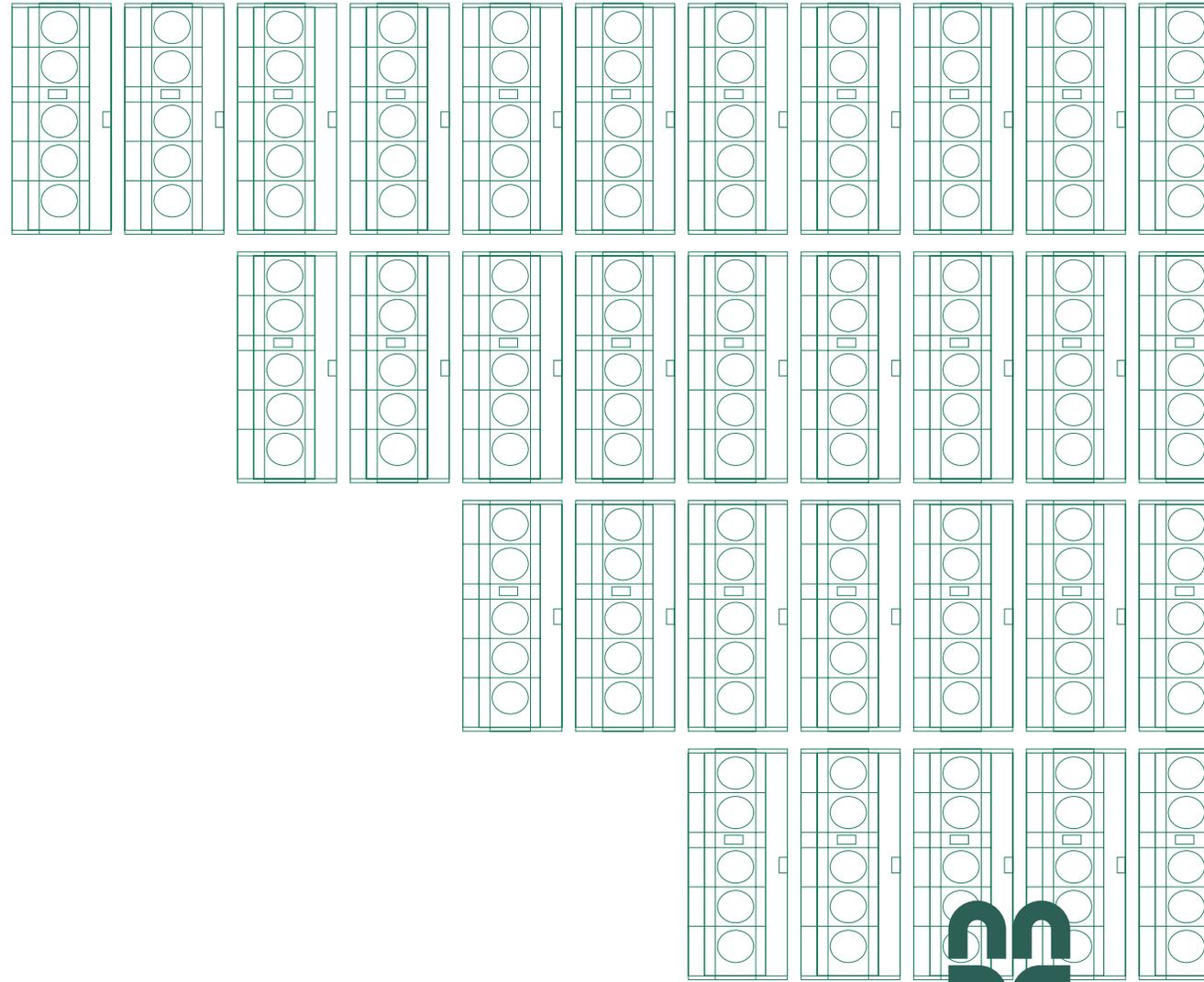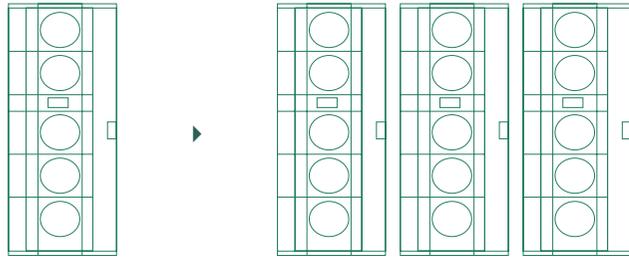
2 The VDU ensures condensation-free operation while transferring heat to the building's chilled water system or, on a larger scale, to a district heating system – for which New Nordic Data Cooling also has a patented solution. The generated warm water (up to 56°C) is then used to heat the building or the water in the district heating system.

3 Once the heat fulfills its purpose, it circulates back into the system for reusing, effectively cooling the excess heat from the server racks. This process holds substantial potential for transforming the data center into a carbon-negative facility, benefitting society.
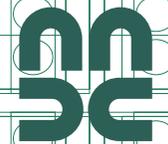
EASY SCALABILITY FOR GROWING BUSINESS NEEDS

Expanding your system to match your current IT load is effortless, avoiding the necessity for data center redesign or interruptions to critical services. This not only prevents downtime but also minimizes energy wastage resulting from system losses.

Additionally, the New Nordic Data Cooling solution features a special adaptor frame perfectly fitting the rear of the rack, reducing space requirements by 80% or more. This adaptable cooling solution can be swiftly installed, ensuring system scalability and future-proofing. Currently, the system provides cooling ranging from 2 to 100 kW per cabinet.

BETTER THAN OTHER COOLING SOLUTIONS

Since 2007, the New Nordic Data Cooling solution has been extensively evaluated alongside competing liquid cooling methods, emerging as the most energy-efficient choice for server racks with medium to high heat densities.

This solution offers several remarkable advantages worth noting:

- It boasts an incredibly compact footprint, causing minimal thermal impact on the white space.
- It delivers precise chilled water temperatures with maximum energy efficiency, significantly reducing water consumption and cutting cooling energy by 90% or more. In fact, this solution has shown to consume only 20% of the energy utilized by conventional close control air conditioning units.
- It is optimized for maintenance and troubleshooting since the Virtual Distribution Unit (VDU) allows the isolation of individual racks without disrupting adjacent units.
- It comes with a complete range of hardware, such as rear doors, manifolds, hoses, etc., and New Nordic Data Cooling takes care of the entire installation and commissioning process.
- It has a lifetime warranty with a service agreement.

For further details, reach out to New Nordic Data Cooling.

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