

A magazine from Qvantum

# QMAGAZINE



**SMART  
COMFORT**  
100% DIGITAL

**WE  
BRING**  
HEAT PUMPS  
TO THE CITIES

**YOUNG ENERGY  
AMBASSADORS**

**GRID OPTIMIZED  
HEAT PUMPS  
WITH BALANCING  
SERVICES**



# IT'S ALL ABOUT THE PEOPLE

## MERGING INSIGHTS FROM THE ENERGY INDUSTRY AND HEAT PUMP MANUFACTURING

At Qvantum, we don't just build heat pumps—we build the future. At the heart of that future are our people: engineers, production experts, innovators, problem-solvers, and visionaries, all working together to transform the way Europe's cities are heated and cooled.

We believe that what seems impossible today will be the standard tomorrow. That's why we challenge the status quo, move quickly, and embrace new ideas. Our team is driven by experience, creativity, and a shared mission—to provide millions with fossil-free heating without sacrificing comfort.

Every product we create bears the mark of the people behind it—those who design, test, and perfect every detail. From the drawing board to the factory floor, from Sweden to cities across Europe, we are united by the belief that energy should flow smarter, warmth should never be wasted, and real change is driven by those who dare to think differently.

**This is Qvantum. And this is just the beginning.**

*Fredrik Rosenqvist*  
CEO





QUANTUM



## QVANTUM QE EXHAUST AIR

TOP EFFICIENCY, LOW NOISE —  
HEATING, COOLING & VENTILATION ALL IN ONE

*Some things require effort—keeping your home warm shouldn't be one of them. Let Quantum do the heavy lifting.*

Quantum QE is designed to meet high efficiency standards, offering heating, ventilation, cooling, and hot water in one compact unit. It integrates seamlessly into modern homes while maintaining high performance and indoor comfort.

One of the things that sets Quantum QE apart is its advanced rapid discharge defrosting, ensuring reliable operation and sustained efficiency even in the coldest conditions. This technology minimizes energy loss and keeps the system running smoothly when it's needed most.

**Quantum is a company that likes to make a fuss—but the QE does not** Designed for quiet performance, the QE operates at one of the lowest noise levels in its class, ensuring comfort without disruption. Making it a subtle yet powerful addition to any home.

With Quantum QE, homeowners get an intelligent, all-in-one solution that maximizes efficiency, convenience, and comfort—without compromise. It's a perfect solution for both single-family homes and apartments in multi-family buildings—when ventilation is available as an energy source.



# BUILDING MOMENTUM

## REDEFINING EUROPE, ONE LEAP AT A TIME

Quantum has rapidly grown and established an active presence across several European markets. With successful subsidiaries in Austria, France, Germany, Hungary, the Netherlands, Poland and the UK. These strong organisations are driving the transition to clean energy.

The German market presents a compelling example of the company's growth. Let's meet the German team.



Since its launch in June 2023 by the CEO, Wolfgang Herold, Quantum Energietechnik in Germany has quickly expanded into a thriving team of seasoned experts, most of whom have decades of experience in the heat pump industry. With key accounts secured, a growing sales pipeline, and several pilot projects underway, Quantum Germany is gaining momentum. Government grants for heat pumps have made securing a spot on the so-called BAFA list a priority, and as of March 2025, the QA9 and QA15 will qualify for subsidies.

Strong partnerships with nationwide project developers and planners, along with a comprehensive after-sales service network, are already in place. A major breakthrough came with an agreement with a large construction company which belongs to the top 5 house builders in Germany — they have already installed many of Quantum's QE systems. Additionally, three large ambient loop projects, totaling approximately 150 QG units, have been secured. Furthermore, numerous Friendly User heat pump systems have been installed, all of which are 100% online, with the goal of driving growth through live experiences.

By April 2025, Quantum will open a dedicated office and training facility, ensuring top-quality support for partners and customers. With a strong team and solid partnerships, Quantum Germany is positioning itself as a key player in the transition to sustainable heating.

# THERMAL GRID SOLUTION

## FOR SUSTAINABLE HOUSING DEVELOPMENTS IN GERMANY

Qvantum's QG series heat pumps will play a key role in the transition to fossil-free heating in three upcoming housing developments in Ditzum, Jemgum, and Zirkow. Designed with a Thermal Grid solution, these projects will provide efficient, low-temperature heating for more than 100 single-family and multi-family homes.

Developed in collaboration with INQ-Tech, the projects demonstrate how modern ground source heat pump technology can deliver reliable, scalable, and sustainable heating.

### Project Overview, 3 different small villages

Ditzum – 41 single-family homes & 3 multi-family buildings

Jemgum – 39 single-family homes & 5 multi-family buildings

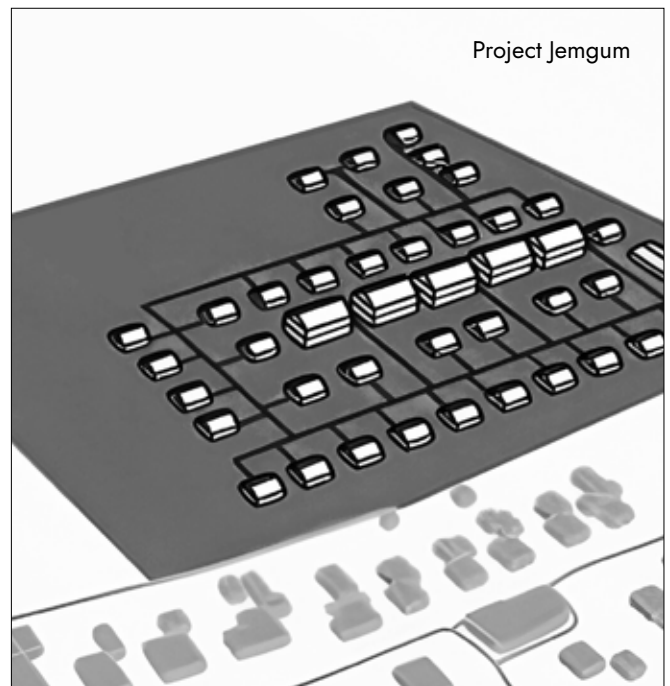
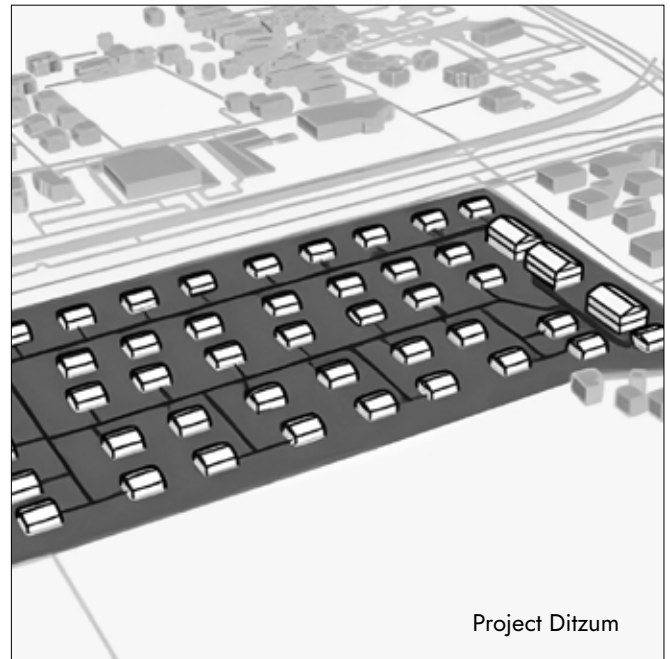
Mühlberg, Zirkow – 30 single-family homes

### Total QG Heat Pumps Planned

107x QG6 units (6 kW)

41x QG12 units (12 kW)

By integrating Qvantum's modular heat pump technology with thermal grid system, these communities will benefit from high efficiency, low emissions, and future-proof heating— paving the way for more sustainable housing in Germany.



# YOUNG ENERGY AMBASSADORS

## SUPPORT THE NEXT GENERATION DRIVING THE ENERGY TRANSITION

Qvantum is not just envisioning the future of sustainable energy—it is actively building it. Recognizing that the next generation will play a central role in this transformation, the company has launched the Young Energy Ambassadors program, designed to inspire, educate, and support young talent in their unbounded potential and commitment to the energy transition.

Qvantum is creating a knowledge and experience platform where young innovators can contribute to and influence the perception of future integrated and electrified heating and cooling systems. This initiative seeks to foster leadership by creating a network of future energy pioneers. Inspired by the EU's focus on youth engagement in sustainability.

Thomas Nowak at Qvantum is a key partner for the Energy Ambassadors. He led the European Heat Pump Association (EHPA) for almost 18 years, growing it into a major voice in Brussels. Now, as Vice President of Government Relations at Qvantum, he continues to shape the heat pump sector. The Energy Ambassadors will attend key events including ISH 2025 (March 17-21), Energiecities Besançon (April 8-10), ChangeNow Paris (April 24-26) and EU Sustainable Energy Week Brussels (June 8-10).

Participants gain hands-on experience in smart energy solutions, working closely with industry experts. Instead of merely learning about the transition to fossil-free heating and energy storage, they actively engage in real-world projects. Through mentorship and collaboration, these young ambassadors develop practical skills and professional connections that will positively impact both their careers and the energy sector at large, encouraged to challenge the status quo and reshape the way apartments building and cities are heated and cooled.

Qvantum are now building a special website on the actions of the Qvantum energy ambassadors. Stay tuned...

***"As Europe shifts from fossil fuels, the demand for skilled professionals in heat pump technology and smart grids grows. The Young Energy Ambassadors program bridges ambition and industry need, equipping future leaders to drive change and invest in the next generation of energy pioneers. We hope many of them will stay with us at Qvantum for the long term", says Thomas Nowak.***







## SMART COMFORT

### 100% DIGITAL

#### **The Smart Software Behind Quantum**

For installers and energy consultants, ensuring efficiency, reliability, and ease of use in heating systems has always been a challenge. Quantum has developed a software-driven platform that simplifies installation, integration, and operation— making heat pumps smarter and more adaptable to the evolving energy landscape.

#### **A System That Evolves Over Time**

Unlike traditional heat pumps, Quantum's platform was born in the digital era. Everything is built to provide secure over-the-air updates, remote services and optimization of your heat pump.

#### **Boost Efficiency with Remote Control**

With Quantum remote control installers can monitor, adjust and optimize system performance from anywhere, reducing the need for on-site visits and ensuring maximum efficiency.

#### **Integration with smart energy systems**

Quantum heat pumps seamlessly integrate with the ecosystem around it, dynamically optimizing energy use. Dynamic pricing is the first of many integrations to dynamically optimizing energy use. Others to come will be PV, EV and EV chargers to adjust to solar production and manage grid flexibility.

#### **Smart Controls - Ultimate Flexibility**

Equipped with self-optimizing controls, Quantum heat pumps continuously adapt to consumption patterns, energy prices and grid conditions. The system offers full manual control when needed, but can operate smoothly in the background, ensuring cost-effective and energy-efficient performance.

*"At Quantum, we take care of the complexity under the hood so that installers and users get a smooth experience".* Says Jacob Skogström – SW Product Manager at Quantum.

#### **Digital Tools for Installers and Consultants**

Quantum provides a suite of digital tools designed to simplify the work of professionals, who design, procure for, and install components of modern energy systems, as well as the customers who use them. Installation guidance, remote monitoring, and predictive maintenance ensure smooth operation while reducing time spent on site.

***Complexity under the hood, Simplicity in your experience.***

# flexready®

## BALANCING SERVICES

Energy storage has become a hot topic as electricity production increasingly relies on solar and wind energy, creating fluctuations in supply and demand. To stabilize the grid and prevent imbalances, Qvantum and Varberg Energi, an energy company, have partnered to offer heat pump owners the chance to store excess energy.

As renewable energy sources grow, grid volatility has intensified, with frequent price fluctuations and supply-demand imbalances. These fluctuations can cause stress on the system, and the grid requires stability even at second-by-second intervals. Heat pump owners now have an opportunity to help stabilize the grid by adjusting their energy usage. Qvantum's innovative flexready technology allows heat pumps to act as "thermal batteries," storing surplus energy as heat in their storage tanks, without affecting domestic hot water temperatures.

This technology presents a new way to manage grid fluctuations, and Qvantum and Varberg Energi have been working together to develop it. They are now pre-qualifying Qvantum's heat pumps for participation on the Swedish frequency markets. During the phase, all functionalities and systems will be tested in a controlled environment. This initiative offers a new role for heat pump owners in contributing to grid stability while benefiting from energy storage compensation.





# INTRODUCING QVANTUM QGM

## APARTMENT GROUND SOURCE HEAT PUMP IDEAL FOR URBAN HEATING

Across Europe, millions of apartments and semi-detached houses are still heated by individual gas boilers—but that's about to change. With the transition to fossil-free heating gaining momentum, Qvantum's QGM heat pump is designed to be the perfect replacement for outdated gas systems.

QGM doesn't rely on outdoor air. Instead, it draws 10-20°C circulating water from thermal networks, using it as an energy source to provide both heating and cooling. With a compact 6 kW capacity, it fits perfectly where a gas boiler once stood—even under a kitchen sink. The wall-mounted hydro unit is pre-plumbed, housing all essential functions for efficient operation. It delivers instantaneous domestic hot water, while its integrated buffer tank helps reduce energy costs by avoiding peak electricity prices. For added comfort, it also supports active cooling.

With its modular design and multiple patented technologies, QGM adapts to various energy grids, making it the ideal future-proof solution for urban heating. Small in size but powerful in impact, QGM is paving the way for fossil-free cities.



## INTRODUCING QVANTUM QG12

### PREMIUM EVERYTHING EXCEPT PRICE, TOP EFFICIENT GROUND SOURCE HEAT PUMP WITH NATURAL REFRIGERANT

Following the success of Qvantum QE and QA+QH, the all-new QG12 takes ground source heat pumps to the next level. With propane (R290) as its refrigerant, QG12 combines top efficiency, sustainability, and a user-friendly installation.

“You could say QG12 is built like a QE, but with the heat pump modules positioned at the bottom instead of the top,” explains Michael Lindahl, Development Manager at Qvantum. “It shares the same design, components, buffer tank system, software and smartness. And, of course, it’s flexready and HP2G optimized.”

#### Revolutionary Modular Design

Instead of a single large compressor, QG12 features two smaller 6 kW heat pump modules. This modular design optimizes production, streamlines spare parts logistics, makes installation easier and make premium design affordable. Each module can easily be removed and replaced while the original unit is refurbished. In fact, QG12 can even operate at half capacity with just one module running.

Maintenance is simplified with a 70°C supply line temperature, a built-in expansion vessel, and integrated safety features. QG12 is designed for high-performance heating, easy installation, and enhanced reliability—while the use of R290 provides a significant environmental advantage.

Launching in late 2025, QG12 will be available in 6 and 12 kW versions with an integrated flexready accumulator tank. Designed with the same modular heat pump technology as the apartment heat pump QGM, it ensures long-term efficiency, flexibility, and sustainability—built for the future of ground source heating.



QUANTUM





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A woman with long dark hair, wearing a black top and a hoop earring, is shown in profile from the chest up. She is looking out a window with vertical blinds. The lighting is soft and natural, coming from the window. The background is slightly blurred, showing the window frame and the blinds.

## QTROPOLIS – WE BRING HEAT PUMPS TO THE CITIES

As cities continue to evolve, urbanization, electrification, and the growing demand for sustainable energy solutions are reshaping how buildings are heated and cooled. However, many existing energy systems relies on combustion and that we need to stop burning things - especially fossil fuels. Quantum is addressing this challenge by introducing a smarter, more efficient approach to urban energy with an ambient loop system.

By integrating both centralized and decentralized heat pumps, Quantum enables energy to circulate efficiently through a shared thermal network. Rather than relying on centralized gas boilers, direct electricity, or traditional district heating, this system captures excess heat from sources such as data centers, supermarkets, and industrial processes, redistributing it where needed. The result is a highly efficient, ambient-temperature distribution network that optimally delivers heating and cooling across urban environments.

This low-temperature ambient loop system not only reduces energy losses but also effortlessly integrates with renewable electricity sources, ensuring real-time balance between heating and cooling demands. The benefits extend beyond efficiency—residents gain greater control over their energy use, cities see significant emission reductions, and the overall energy grid becomes more resilient.

QTropolis is a fictional Quantum city, although it's more than a concept—*it's the next step in urban energy systems. Its mission is to transform how cities produce, distribute, and consume energy, making fossil-free living an effortless reality.*

# QPLANNER

WEEKS OF WORK,  
CONDENSED INTO  
MINUTES

*QPlanner is a cutting-edge digital tool capable of dimensioning both individual heat pumps and large-scale systems for entire urban areas. Developed under the expertise of Jonas Ekestubbe, Qvantum's leading specialist in heat pump system design, this innovative software allows for precise energy planning, ensuring efficiency and sustainability in every project.*

Qvantum's software is designed for installers, planners, consultants, and developers, offering solutions for energy calculations, heat pump dimensioning, and the design of integrated thermal networks. It accounts for a wide range of variables—including terrain conditions, building materials, existing infrastructure, and future expansion needs—automatically generating an optimized solution in minutes. Qvantum's advanced design software, is developed to simplify and accelerate the dimensioning of heat pumps as well as large-scale energy systems— where low-temperature systems networks for entire neighbourhoods and districts can be developed.

*"This software is built to handle complexity," explains Ekestubbe. "From the first input, it considers all variables—construction materials, energy usage, climate conditions—and produces a complete system overview."*

By seamlessly integrating centralized and decentralized heat pumps, the software enables installers and energy consultants to create highly efficient energy systems and interconnected thermal grids.

## **QSelect:**

Energy calculation tool for Qvantum's residential products

## **QPerform:**

User-friendly tool visualizing heat pump performance based on temperature settings

## **QSimulate:**

Energy calculation tool for Qvantum's commercial products

## **QDesign:**

Design tool for dimensioning of heat pumps as well as largescale energy systems and ambient loop systems.





## THE VALUE OF HEAT PUMP TO GRID (HP2G®)

### Smart Heat Pumps for Smarter Cities

Fossil-free cities require more than just renewable electricity—they need smarter energy use. Quantum’s Heat Pump to Grid (HP2G®) technology makes heat pumps an integrated part of smart, flexible energy systems, optimizing energy use while reducing emissions and costs.

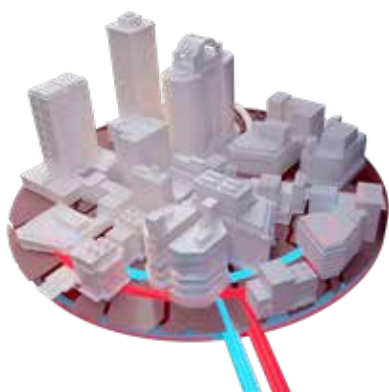
### Turning Waste Heat into an Asset

Cities expels vast amounts of low-temperature waste heat from data centers, supermarkets, and industry—most of which goes unused. HP2G® captures and redistributes these thermal energy streams through ambient loop systems. Combined with seasonal thermal storage, it enables fossil-free heating and cooling on demand.

*“By utilizing low-temperature waste heat and seasonal thermal storage, we can fully supply urban areas with thermal energy through heat pumps,”* says Per Rosén, Tekn.Dr. and Specialist in Energy Systems at Qvantum.

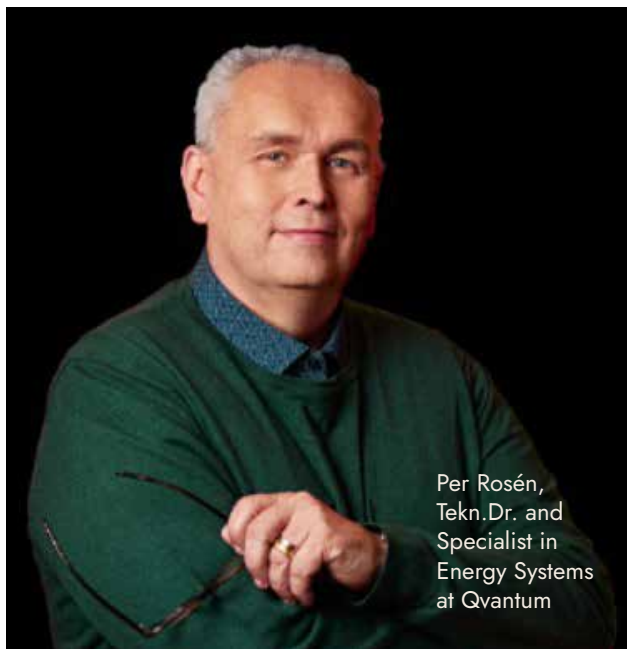
### Stabilizing the Grid

HP2G® turns heat pumps into thermal batteries, adjusting power consumption based on availability. When demand is high, heat pumps reduce usage; when renewable electricity is abundant, they store energy for later.



### A Fossil-Free Future

By replacing gas heating with electrified heat pumps, cities eliminate thousands of combustion exhaust pipes, cutting pollution and improving air quality. HP2G® is making urban energy cleaner, quieter, and more efficient—one building at a time.



Per Rosén,  
Tekn.Dr. and  
Specialist in  
Energy Systems  
at Qvantum

# POWERING THE FUTURE

## SCALING FOR ENERGY TRANSITION

Quantum is supported by like-minded long-term investors that share the vision and purpose of creating a more sustainable future. Led by personalities like Thomas von Koch (former CEO of EQT) and Mats Rahmström (former CEO of Atlas Copco), alongside key investors such as IMAS Foundation (a sister foundation to the INGKA Foundation, owner of the INGKA Group which operates most IKEA stores globally) and SEB Greentech, Quantum is well-positioned to drive innovation and accelerate Europe's energy transition.

Quantum's leadership, board, and investors share a unified goal: to bring heat pumps to the cities. Their combined expertise is already driving significant progress. With manufacturing in Sweden and Hungary, Quantum is scaling production to expand heat pump availability across Europe. New sales organizations have been established in Sweden, the UK, Germany, the Netherlands, Poland, France, and Austria, further strengthening their market presence. Additionally, Quantum's Heat Pump-to-Grid (HP2G) and flexready functionality will support and stabilize the electric grid as it transitions toward zero-carbon energy production.

Quantum has secured strong financial backing from its investors - all in all €154m. This funding is enabling the company to scale production, develop innovative products and expand across European markets.



*"Quantum is more than just a startup, and we are growing rapidly" says Fredrik Rosenqvist, CEO at Quantum. "Our company is built on decades of industrial expertise, strategic investment, and a clear plan to lead Europe's clean energy transition."*

Quantum is not just a heat pump company; it's a technology-driven industrial force, backed by leaders who have scaled some of the world's top manufacturing and energy companies. With a strong blend of industrial expertise and financial power, Quantum is poised to transform Europe's heating sector—fossil-free, scalable, and built to last.

### **Investors:**

Climentum Capital, DIG Investment, Gullspång Invest, IMAS Foundation (a sister foundation to the INGKA Foundation, owner of the INGKA Group which operates most IKEA stores globally), Mats Rahmström, Munters AB, NEA Partners, SEB Greentech and Thomas von Koch.



# WOULD LE CORBUSIER CHOOSE A HEAT PUMP TODAY?



Le Corbusier (1887 - 1965) was a pioneer of modern architecture. He believed in the need for efficient, functional, and affordable housing for the masses. His designs combine the idea of high-density living with green spaces, seeing buildings as machines for living. Apartments should be practical, providing comfort and indoor environmental quality for the many people seeking accommodation in cities. Through rational urban planning, modular design, and the use of reinforced concrete he promoted cost-effective, scalable solutions.

His most well-known project in this context is Unité d'Habitation, build from 1947 to 1952 in Marseille, France. This large-scale residential block was designed as a self-contained community, featuring apartments, a rooftop garden, a school, and shops. It embodied his vision of providing quality housing for low-income families while maintaining dignity and communal living.

The buildings consisted of standardized apartment designs accommodating the needs

of different inhabitants – from single users to small and larger families.

For the architecturally interested, a replica of the type E2 - designed for a typical family of that time and equipped with replicas of the original furniture, can be visited in the "Cit  de l'architecture et du patrimoine" in Paris.

For the energy enthusiasts, the hidden gem is an electric hot water boiler (the building itself was heated by a coal power plant) fitted into each apartment.

Had he lived today, would Le Corbusier have chosen a heat pump instead? The technologies inherent qualities and the option to provide cooling could have increased the comfort of inhabitants while improving the energetic efficiency of the building.

If Quantum solutions had been deployed, the 337 apartments of the Unit  d'Habitation would also have been a sizable virtual power plant contributing to grid stability.





## QUANTUM QA+QH AIR TO WATER

PRE-PLUMBED, NATURAL REFRIGERANT AND SUPPORT FOR ACTIVE COOLING

QH is an indoor module designed to integrate seamlessly with renewable energy sources, modern power grids, and balancing services. With 100% digital operation, the heat pump is ensuring both high efficiency and flexibility. As Quantum's software evolves, the heat pump will automatically receive upgrades with new features.

At the heart of QH's innovation is its integrated thermal battery, a patented solution that allows the system to store heat energy at up to 90°C. By charging during periods of low electricity prices or renewable energy surplus, QH optimizes energy consumption, reducing costs and helping to balance the power grid.

With its API communication capabilities, QH will be able to connect to flexibility markets, enabling automated energy trading based on real-time electricity prices and grid demand.

This allows users to not only save money but also actively contribute to grid stability, and in the future also be compensated for 'renting out' your heat pump on the flex market.

The QH in combination with QA is more than just a heat pump—it's a key part of tomorrow's energy system. It uses R290, a natural refrigerant with an ultra-low GWP, ensuring minimal environmental impact. Built to provide reliable, efficient and affordable heating and cooling, the QH is designed to meet the needs of modern cities and support a sustainable energy future.





**The price shelf includes:**

**Targi Instalacje 2024**  
for QGM apartment heat pump- Gold Medal

**Targi Instalacje 2024**  
for QGM apartment heat pump- Eco Prize

**Targi Heating Tech 2024**  
for the brand – medal Quality & Innovation

**Kongres Trendy 2024**  
Brand of the year in Energy trends 2024

**Targi BUDMA 2025**  
for QE Exhaust air heat pump- Gold Medal

**Targi ENEX 2025**  
for the QGM apartment heat pump

## QVANTUM POLAND

### SUCCESS WITHOUT SLOWING DOWN

In sports, they say that after a couple of titles, even the best teams can become complacent. That's not the case for Quantum Poland. Over the past year, they've secured an impressive six industry awards, proving that their dedication and expertise continue to make a difference.

*"We are delighted that our innovative products have been so well received! It shows that we have chosen the right direction and that our efforts are producing tangible results",* Piotr Kubera CEO Quantum Poland.

Winning one award is an achievement. Winning six in a year? That's a statement. It's a testament to their dedication, expertise, and ability to lead the way in an industry that's evolving faster than ever. And at this pace, it wouldn't be a surprise if next year's trophy shelf needs an extension.



## FROM SLALOM TO SMART HEATING

### JENS BYGGMARK RACES INTO THE FUTURE WITH QVANTUM

On the slopes, precision, control, and adaptability are the keys to success. Off the slopes? Turns out, the same goes for home heating.

Former ski star Jens Byggmark and influencer Michaela Byggmark Delér chose a Quantum air-to-water heat pump for its energy efficiency, comfort, and control. Michaela loves how quiet it is and how quickly it adjusts to their preferences, while Jens is excited about the flexready feature, which will be able to save energy and money by storing heat during low electricity prices.

The family is also part of a pilot project with Varberg Energi to help stabilize the power grid. Want to see the installation? Check out their YouTube channel, 'Vägen mot skilsmässan,' for a behind-the-scenes look at their journey to smarter heating! From downhill speed to home energy efficiency.



## FOSSILS STAY IN THE EXHIBITIONS

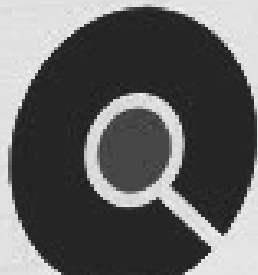
### FOSSIL FUELS DON'T

The Denver Museum of Nature & Science, known for its dinosaur exhibits, is moving away from fossil fuels for heating. Quantum is collaborating with the museum on a geothermal heating and cooling system to reduce natural gas use.

*"The plan is to create a low-temperature grid, or 'ambient loop,' combining heat pumps to cut CO2 emissions and improve air quality,"* says Michael Moggeridge, Director at Quantum Solution Design Limited.

With a \$250,000 grant from the Colorado Energy Office, this project could make the museum one of the first in the U.S. to adopt 5th generation district heating. The design will be led by BCER with support from Merestone and Quantum experts. A perfect blend of innovation and history.





Q V A N T U M

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# NEW TECHNOLOGY FROM ELECTROLUX

The heat pump industry has long relied on traditional manufacturing techniques, but Qvantum is taking a different approach. By combining a factory designed for high-volume white goods production with a modular heat pump platform, Qvantum is redefining how heat pumps are made.

## Refrigerator Technology – The Unexpected Key to Scaling Heat Pump Production

When Qvantum set out to scale production, it didn't just look for a factory—it looked for potential. Peter Jovic, Senior Advisor at Qvantum, saw that potential in refrigerator manufacturing. For years, he has had his eyes on refrigerator factories, recognizing that their high-volume production technology could be adapted for heat pump manufacturing.

***“80% of the production technology in a refrigerator factory can be transferable and implemented in the production of heat pumps, enabling efficient scaling and high-precision production,” explains Jovic.***

Qvantum's acquisition of Electrolux's former refrigerator factory provided the ideal foundation for high-volume heat pump production.

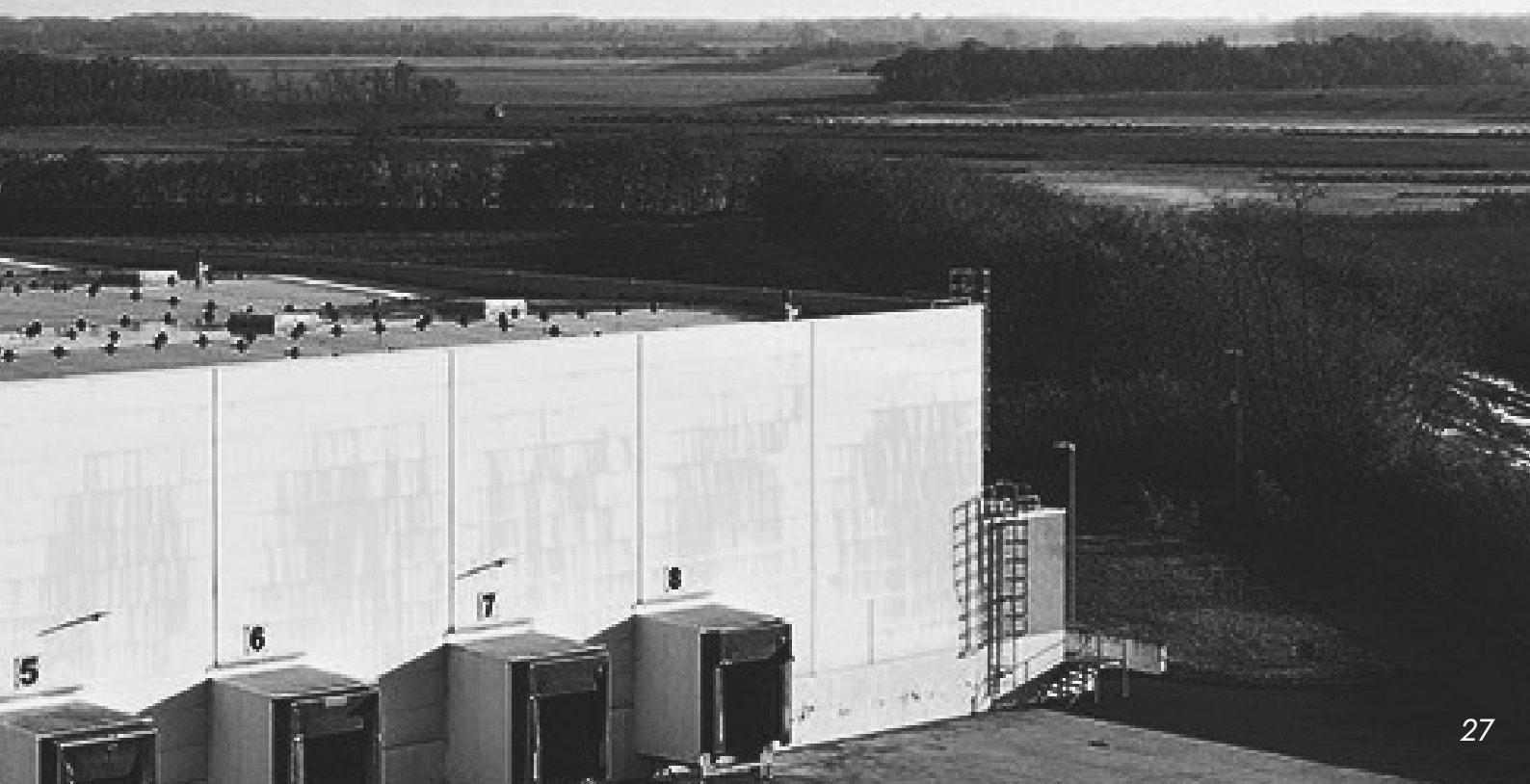
The factory's existing infrastructure, combined with Qvantum's modular heat pump design, allows for efficient scaling while maintaining precision and quality.

## Smarter Heat Pump Manufacturing

The factory uses fully automated metal forming, polyurethane foaming for seamless insulation, and developing induction brazing to enhance reliability.

## Innovative Design and Manufacturing

Qvantum has always put a strong focus on quality from the start. Its quality processes are fully based on a risk analysis driven by customer needs, both in design and in process. This forms the foundation of its entire quality management system. On top of that, its expert team, in collaboration with suppliers and in line with European standards, has created specifications for every part of its heat pumps. Innovation isn't just about its products—it also applies to its quality control systems, with the help of the latest 2D and 3D measuring equipment ensuring the accuracy of its tests. Just to mention a few, its products undergo testing in reliability, packaging, technology labs, and the statistical room.





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