



TEMPERATURE UNDER CONTROL



*Innovative energy transfer and storage solutions*

*every day a little greener* 🌱



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# Internationally Certified

*Certifications make us not only the ideal partner  
for international projects but also consistently  
ensure compliance with global standards.*

✓ ASME U-Stamp

✓ ISO 9001

✓ China Stamp

✓ CU TR 032

# Welcome to ZILONIS®

## *Get to Know Us*

ZILONIS®: Your partner for customized heat exchanger and energy storage solutions. With a wide range of products and years of experience, we serve various industries. Our focus is on high-quality solutions and environmentally friendly technology. Contact us to learn more about our products and services.





**Our Vision:**

*We are globally recognized for our contribution to reducing the CO<sub>2</sub> footprint.*

**Our Mission:**

*We optimize the storage and exchange of heat, energy, and power through continually improved processes.*



# ZILONIS<sup>®</sup> (latv. Elephant)

*A Brand with Significance*

*Distinctive Memory*

*Goes to great lengths for food*

*Robust Skin*



**In China**

*Symbol of strength, acumen, energy, and sovereignty*

**In Africa**

*Symbol of power, luck, and a long life*

*Sense of Family*

*Sensitive*

*Best Social Networks*

# ZILONIS<sup>®</sup> Writes History

*From individual parts emerges a whole*

## Foundation of QUAST Anlagentechnik

Coppersmith and plant engineering in the Ruhr area

- Chemical, pharmaceutical, oil, and gas industries
- Custom installations, reactors, and columns

**QUAST**  
ANLAGENTECHNIK

## Foundation of ACHENBACH+DEUKER

Engineering for feedwater tanks and degassers

- Paper and wood industry
- Coil-type heat exchangers and tanks

**ACHENBACH+DEUKER**  
Behälter- und Apparatebau

## Foundation of WEINBRENNER

Machinery and apparatus construction in the Westerwald

- Brewing, beverage, and food industry
- Compact design tube bundle heat exchangers

 **Helmut Weinbrenner**  
Maschinen- und  
Apparatebau GmbH

1926

1933

1948

1954

1976

1984

## Foundation of DELLER

Hüttenmann = Symbol for Iron Production in Siegerland

- Chemical and Pharmaceutical Industry, Oil and Gas
- Safety and Sterile Heat Exchangers

 **DELLER**  
SAFETY HEAT EXCHANGERS

## Foundation of Eugen Bűdenbender

Large container construction and rubberized containers

- Water treatment and energy industry
- Filter containers and special containers

 **EUGEN BűDENBENDER**  
Behälter- und Apparatebau

## Foundation of IGEFA

Thermodynamic designs and strength calculations

- Energy industry, district heating, and engineering offices
- Steam generators, electric heaters, and transfer stations

 **IGEFA Ing.-Ges. für**  
Elektrowärme-, Fernwärme-  
und Abwärme-Technik mbH

### Foundation of AST Advanced Welding

Sophisticated welding connections and special materials

- Vacuum chambers, mixing tanks, and cooling chambers
- Mechanical engineering, pharmaceutical industry, and marine sector



2003 2005

### Foundation of BAM Apparatebau

Large apparatus construction and heat exchangers from Siegerland

- Mechanical engineering and marine sector
- Large heat exchangers and containers



### Foundation of XELSION

Customized solutions and thermodynamic designs

- Energy industry, beverage, and food industry
- Plate heat exchangers in all categories



2019 2020

### Group Expansions

Formation of the Parent Company ZILONIS®



### Foundation of ZILONIS® Kosova

First foreign branch in Kosovo, responsible for the Southeast European market.



2023

### Foundation of ZILONIS® Shanghai

Seeing and shaping the future. Asia is one of the future markets in our fields.



### Relocation of the Headquarters to Müschenbach

Opening of the ZILONIS® CAMPUS





## Know-How

Through our in-house engineering for process and procedural technology, as well as a centrally organized project, quality, and documentation management, ZILONIS® possesses extensive knowledge. Our customers can already benefit individually from this knowledge in the consultation process.



## Innovation

Thanks to our close networking and active participation in numerous research projects at ZILONIS®, we are always able to offer our customers the latest technologies and highest quality standards. Our focus is always on cost-effectiveness and efficiency.



## Experience

ZILONIS® brings together a wealth of experience of over a century in the field of heat exchanger, container, and apparatus construction. Our customers particularly benefit from this extensive expertise in project evaluation and the determination of associated process parameters.



## Competence

At ZILONIS®, we have comprehensive competencies in the design, construction, manufacturing, and service of heat exchangers, containers, and apparatus. Our focus extends across a wide range of industries, utilizing innovative technologies and striving for sustainability.



# Empowered by Passion

## *All Services from One Source*

At ZILONIS®, we are never satisfied with the status quo. We continuously strive to expand our core competencies and strengths, skillfully identify and address our weaknesses. This dedication ensures that our customers continually benefit from innovations and outstanding products.



### High-level Engineering

The solutions from ZILONIS® are based on a thorough analysis of customer requirements and precise thermodynamic design. In the development, we place special emphasis on high-performance and efficient heat exchangers. Our proprietary design software allows us to offer tailored solutions and provide detailed quotes during the planning phase.



### International Certifications

To ensure that our manufactured products fulfill their intended purpose and can be operated as durably as possible, we place great emphasis on quality and compliance with important standards and regulations. We are internationally recognized and certified, enabling close communication between production and quality management to continuously ensure first-class results.



### Design Exzellenz

In construction, our expertise ensures the highest operational safety. With services such as technical drawings, product development, 3D visualizations, and technical communication, we have the professional tools to turn your vision into reality. Our dedication to individuality directs our entire focus to your requirements and drives us to continuously develop innovations and create solutions that go beyond conventional boundaries.

# Pioneering the Possibilities of Tomorrow

*Leading in Innovation and Partnerships  
for the Future*

Innovation and sustainability are two central pillars of our company philosophy. We at ZILONIS® firmly believe that innovation is the key to solving current and future challenges. We continuously strive for new ideas, technologies, and approaches to better meet the needs of our customers.



*“The combination of our commitment to quality, international certifications, and customer satisfaction makes us the leading provider in our fields of application.”*

**Musa Smakaj**, Managing Partner



*“With ZILONIS, we aim to achieve our long-term goal of making energy management in industrial enterprises more efficient. To achieve this, we leverage the technologies available to us and continually expand our capacities to meet our own necessary standards of innovation.”*

**Daniel Utsch**, Managing Partner



*“Electromobility, photovoltaics, and improved thermal insulation are important steps against CO<sub>2</sub> emissions. However, the most significant lever against climate change is in the industry. That’s where we, with ZILONIS, come into play.”*

**Samir El-Assal**, Managing Partner



# Our Services Overview

*Service quality tailored to your needs*

Together with ZILONIS®, you will find exactly the services that bring the greatest benefit to your company. We offer maximum transparency and customized services that are available exactly when you need them. In the event of a production availability failure, you can rely on prompt and uncomplicated action, as well as timely communication of inspection deadlines and required maintenance. This allows you to extend the lifespan of your equipment and reduce downtime. Trust in a reliable and competent partner in all service areas! We are here to ensure that your requirements are met and your business runs smoothly.



## START-UP

Commissioning and Manufacturer Inspection

- ✔ Transportation and Assembly
- ✔ Commissioning: Parameter Verification
- ✔ Training and Instruction
- ✔ Supervisor

### Your direct benefits:

- ✔ Assistance and Monitoring
- ✔ Performance Precision
- ✔ Independent Operation



## STEADY

Maintenance, Inspections, and Tests

### Service Fee

- ✔ Safety Technical Evaluation
- ✔ Establishment of a Test Book
- ✔ Deadline Management
- ✔ Warranty Extension
- ✔ On-Call Service
- ✔ Travel Cost Flat Rate
- ✔ Rapid Spare Parts Delivery
- ✔ Cleaning and Corrosion Protection

### Your direct benefits:

- ✔ Proactive Support
- ✔ Low Probability of Failure
- ✔ Prioritized Spare Parts Delivery



## REPAIR

On-site and Workshop Repairs

- ✔ On-site Fault Analysis
- ✔ On-site Service Interventions
- ✔ Workshop Repairs
- ✔ Integrated Wear Parts Service

### Your direct benefits:

- ✔ Quick Appointment Scheduling
- ✔ Swift Problem Resolution
- ✔ Fast Restoration to Operation



## REPLACE

Spare Parts and Apparatus Replacement

- ✔ Uncomplicated Processes
- ✔ Special Formats and Materials
- ✔ Documentation and Archiving
- ✔ Transportation and Assembly
- ✔ Commissioning

### Your direct benefits:

- ✔ Quick Reaction in Case of Failure
- ✔ Prioritized Production
- ✔ Low Downtime



## REVISION

Reengineering and Acceptance

- ✔ Performance Optimizations
- ✔ Redesigns
- ✔ Substitution of Apparatus
- ✔ Acceptance with Inspection Authorities

### Your direct benefits:

- ✔ Leistungssteigerung
- ✔ Unbürokratische Anpassungen
- ✔ Übernahme Organisation



## TRAINING

Consultation, Training, and Seminars

- ✔ Technical and Commercial Consulting
- ✔ Relevant Process Parameters
- ✔ Instructions and Training Sessions
- ✔ Supervisor

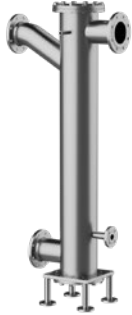
### Your direct benefits:

- ✔ Free Quotations
- ✔ Performance Improvements
- ✔ Independent Adjustments

# Our Product Range

## Shell-and-Tube Heat Exchanger

Efficient Heat Transfer



Heating Condenser

## Plate Heat Exchanger

Flexibility and Versatility



Bolted Plate Heat Exchanger

## Brazed Plate Heat Exchanger

Reliability and High Performance

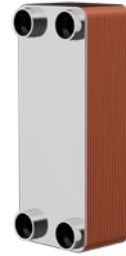
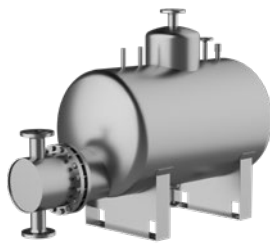


Plate Heat Exchanger



Steam Generator



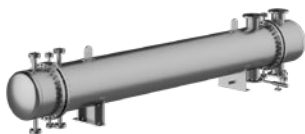
Free Flow

## Plate and Shell

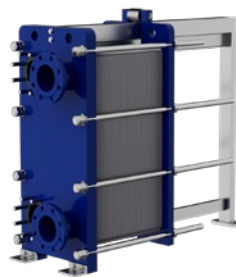
Energy Efficiency and Low Operating Costs



Plate and Shell



Safety Heat Exchanger



Condenser/Evaporator

## Electric Heating Systems

Precise Temperature Control



Sterile Heat Exchanger



Stainless Steel Plate Heat Exchanger



Electric Heater

*Customer-Specific Manufacturing*

*– Innovative, Efficient, and Internationally Certified*

**Containers**

**Customized and Individual**



Feedwater Tank



Conveyor Tank



Filter Tank



Hot Water Heater



Condensate Tank



Buffer Tank



Separation Tank



Stainless Steel Tank

Your Individual Solution

Inquire with Us!



Individual Solutions



# Our Capacities

*Resources and Potential*





- 
- Diameter up to 3,200mm
  - Length up to 12,000mm
  - Piece weight up to 40t

- 
- TIG, MIG, Manual Metal Arc, and UP
  - Machining (CNC and Manual)
  - Tube Bending
  - Orbital Tube Welding

- 
- Stainless Steel and Duplex
  - Heat-Resistant and C-Steels
  - Nickel-Based
  - Special Materials
-

# Your Markets ...



## Food Industry

The food industry, where quality and efficiency are crucial, finds a partner in ZILONIS®. We offer innovative heat exchanger and storage solutions that enable improved process control and the highest hygiene standards in areas such as heating, cooling, pasteurization, sterilization, evaporation, and condensation. With our solutions, you can increase your production performance while saving energy.



## Chemistry and Petrochemistry

In today's world, almost all consumer goods are connected to chemistry in some form, and the chemical industry is considered one of the most innovative sectors globally. At ZILONIS®, we understand the challenging complexity of chemical production and support you in your processes. Our innovative heat exchangers, containers, and apparatus are ideal for heating, cooling, condensing, and evaporating process-relevant media, making your production more efficient and reliable.







## Energy Technology

Energy is the lifeblood of the modern world, and ensuring its supply is of strategic importance. At ZILONIS®, we are aware of the challenges and opportunities associated with this crucial topic and leverage our expertise to advance the energy industry and support the transition to renewable energy.



## Wood and Paper Industry

In the wood and paper industry, maximum productivity and plant availability are essential. Given the increasing demand for sustainable raw materials and products, efficient resource utilization and energy efficiency are crucial. At ZILONIS®, we support you with innovative heat exchangers, containers, and apparatuses to achieve maximum output while conserving resources. Our solutions enable the recovery of heat and efficient use of energy in your production processes.





## Pharmaceutical Industry

In the pharmaceutical industry, the safety and quality of drugs take precedence. Our specialized tube bundle heat exchangers are designed to meet the stringent standards of the pharmaceutical sector. They are applied in water treatment systems, during storage and distribution, right through to end-use. Our solutions minimize the risk of contamination and ensure a safe and sterile working environment, adhering to the highest quality and safety standards in the pharmaceutical industry.



## Oil and Gas Industry

Oil and gas are invaluable to our modern world. These essential resources not only serve as primary energy sources globally but also form the basis for a variety of everyday products, from electronics to medicines. At ZILONIS®, we offer innovative products and expertise to ensure operational safety, availability, and efficiency. Our technologies are designed to save energy and minimize environmental impact, from extraction to storage.



# ... are our Markets

*Diverse Applications of Our Products*



## Marine

Our customized components are specifically designed for maritime applications and contribute to environmental relief. Our products provide reliable cooling and heating for critical systems, are durable, and long-lasting. They meet the highest standards to meet the demanding conditions at sea. We actively commit to reducing the environmental impact of shipping.



## Building Technology

Our modern, durable, and low-maintenance heat exchangers and containers are designed to increase energy efficiency in buildings, meeting strict regulations and guidelines for energy consumption. We assist you in making your investment profitable in the long term, from planning to service.



# International Business

## *With a Clear Conscience*

At ZILONIS®, our principles and values are at the core of our business activities. These principles guide us in our international presence and our commitment to social responsibility, ethics, sustainability, legal compliance, fair competition, and environmental protection. In this context, we want to provide you with an overview of our commitments and actions rooted in these key areas:

### **Social Responsibility and Ethics**

We commit to respecting globally recognized social and legal conventions and promote a working environment characterized by integrity, respect, fairness, and responsibility.

### **International Presence and Sustainability**

Our international presence and global partnerships enable us not only to meet global standards but also to identify and seize market opportunities for renewable energy worldwide.

### **Legal Compliance and Anti-Corruption**

Strict compliance with legal regulations, export and import restrictions, as well as anti-corruption guidelines, is of the utmost importance to us.

### **Fair Competition**

We advocate for fair competition, respect antitrust laws, and adhere to socially responsible working conditions that reject any form of discrimination.



### **Environmental Protection and Product Safety**

From the development process to the sale of our products, we are committed to environmental protection and prioritize the safety of our customers.



PRISTHINA

SHANGHAI

-  ZILONIS Locations
-  ZILONIS Partner

### Global Presence yet Close to You

In an increasingly globalized world, having partners on the ground is more important than ever. At ZILONIS®, we recognize the importance of intercultural competence and nearshoring to serve our customers worldwide to the best of our ability. Regardless of your location, we are focused on understanding and meeting your requirements. We understand that despite the benefits of globalization, the proximity to our customers is invaluable. Our experts specialize in understanding the needs and challenges in different markets and regions. We believe in the strengths of collaboration and strive to be locally present to offer you tailor-made solutions. At ZILONIS®, we take pride in being globally present yet always close to you to best support your concerns.

# Get to Know Us Today

## *Your Path to Sustainable Solutions*

We look forward to collaborating on the development of your project and are here to assist you from the initial contact to the successful completion and beyond. Take advantage of our direct line to the contacts in our ZILONIS® Sales Team for professional guidance.

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