

COMPANY PROFILE

SYNERGY AND TRADITION

A seamless solution for quality

SILE CALDAIE and **HEIZER GAS** are two historical companies with a rich tradition and experience in the production of heating systems designed for both domestic use, such as boilers and DHW storage tanks and industrial use, including products like autoclaves, expanders, steam generators, and systems for overheated water.

The established manufacturing tradition of both companies, coupled with the inherent reliability and quality of their products, gave rise, starting from 2020, to the co-branding initiative **HEIZER SILE**.

Since 2023, HeizerSile has been acquired by **Fiorini Industries Srl**, which began its operations over forty years ago and is currently a key player in the HVAC&R (Heating Ventilation Air Conditioning & Refrigeration) market. They offer a comprehensive range of thermo-technical products, including plate heat exchangers, integrated hydronic systems with heat pumps, solutions for air conditioning and DHW, expanders, solar systems, and customized solutions.

This recent acquisition by **Fiorini Industries** represents a significant opportunity for growth, collaboration, and enhancement, characterized by extensive experience and aimed at producing efficient, high-performance products.

Foundation of
HEIZER GAS
in Milan

1945

Foundation of
SILE

1964

SILE PRODUCES
Silta, first boiler
for centralised systems

1966



75 years
of experience



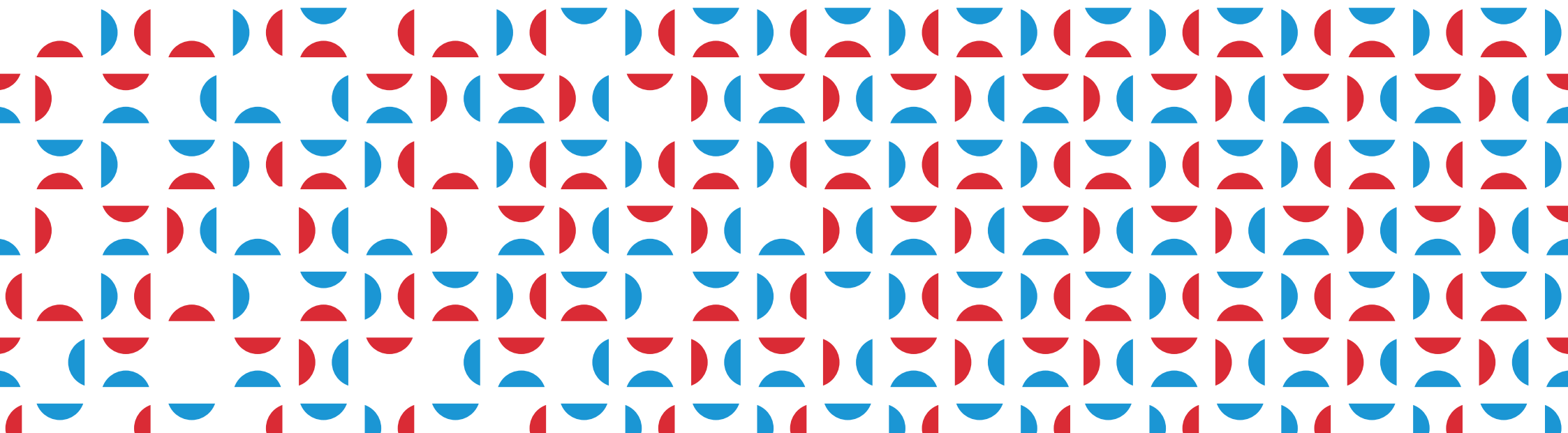
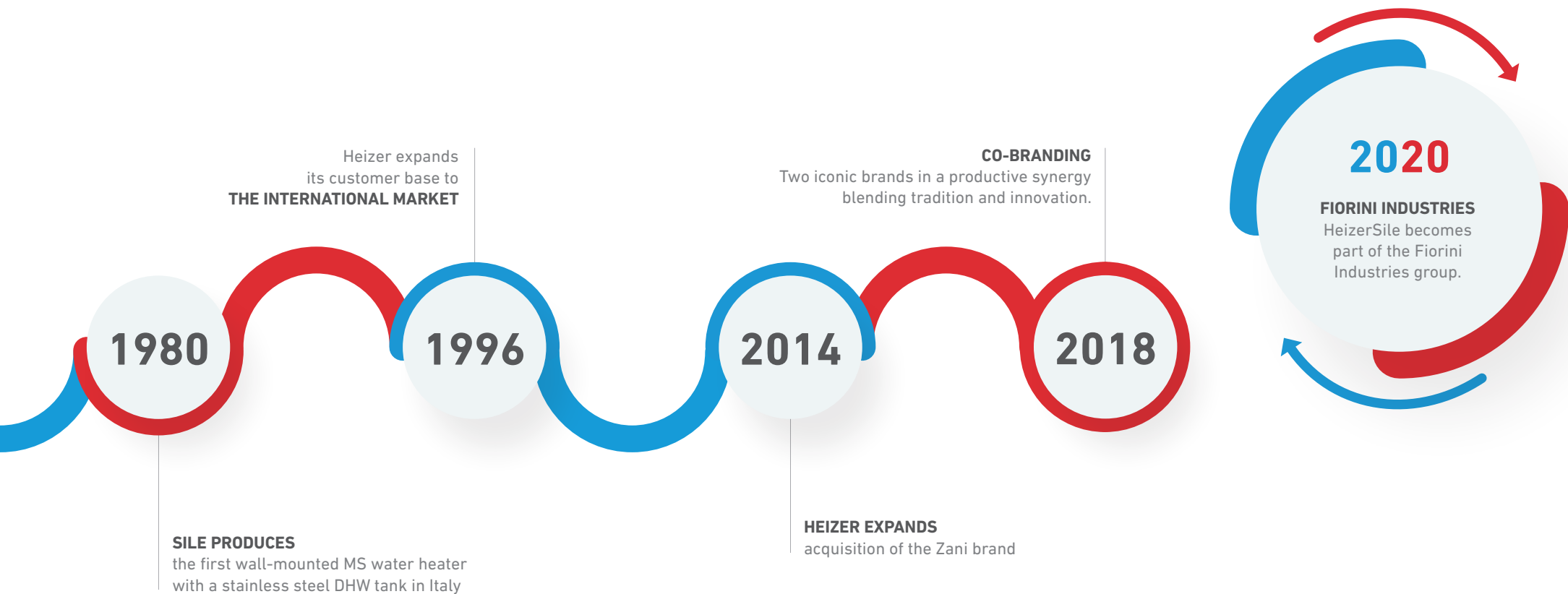
Made in Italy
quality and innovation



Customisation
tailor-made products



PED/CE
certifications



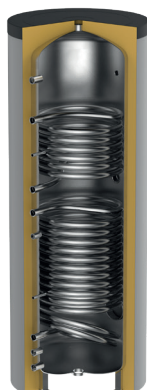
PRODUCT RANGE



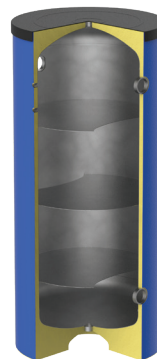
Boilers



**Hot water
storage tank**



**DHW
storage tanks**



**Buffer
tanks**



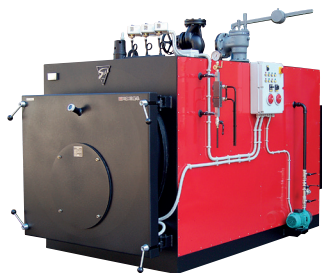
**Plate heat
exchangers**



**DHW
heaters**



Solar panel



Steam generators



**Superheated water
generators**



Expanders



Autoclaves

Boilers

The wide range goes from residential solutions (<35 kW) to advanced hybrid systems and high power >35 kW centralised systems. Also, the range offers targeted solutions for high-power systems up to 900 kW.

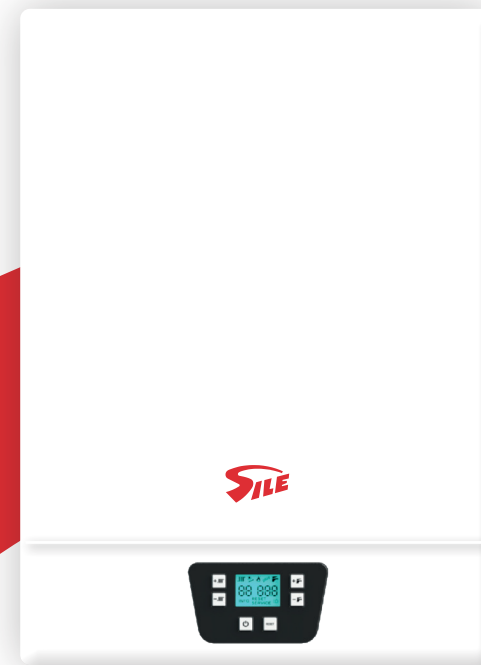
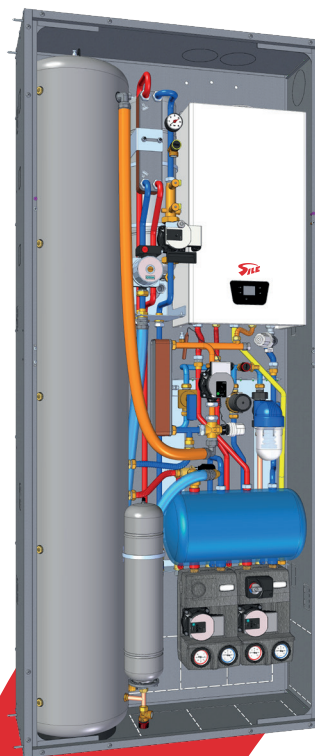
The entire production is certified according to European standards in terms of safety and efficiency in the use of gas.

FEATURES

- Residential 20 ÷ 34 kW
- Thermal power stations up to 900 kW
- Cascaded installation
- Broad modulation range up to 3kW
- Modulation 1:10

PLUS

- Ultra-high and constant performance
- Instant production
- Storage tanks/water heaters in AISI 316 stainless steel
- Anti-legionella function
- Integrated hybrid systems
- Solar integrations
- Easy maintenance



Water storage heater

The range of Water storage heaters models consists of solutions for the industrial and domestic application, featuring condensation and open chamber products. Moreover, there are electric models in different versions to meet every kind of requirement.

Gas and electric-powered water heater range, on the market for over fifty years.

FEATURES

- Power 1.2 ÷ 130 kW
- Capacity 50 ÷ 800 l
- Open / closed combustion chamber
- Electric unit with double safety thermostat

PLUS

- DHW load profile from XL to 3 XL
- High-performance rigid polyurethane foam insulation
- Easy maintenance
- Electronic ignition



DHW storage tanks

The range of DHW storage tanks consists of **storage tanks** and **water heaters** with **fixed or removable coils** for producing domestic hot water. The highest levels of quality are guaranteed.

They come in different capacities with a variety of insulation.

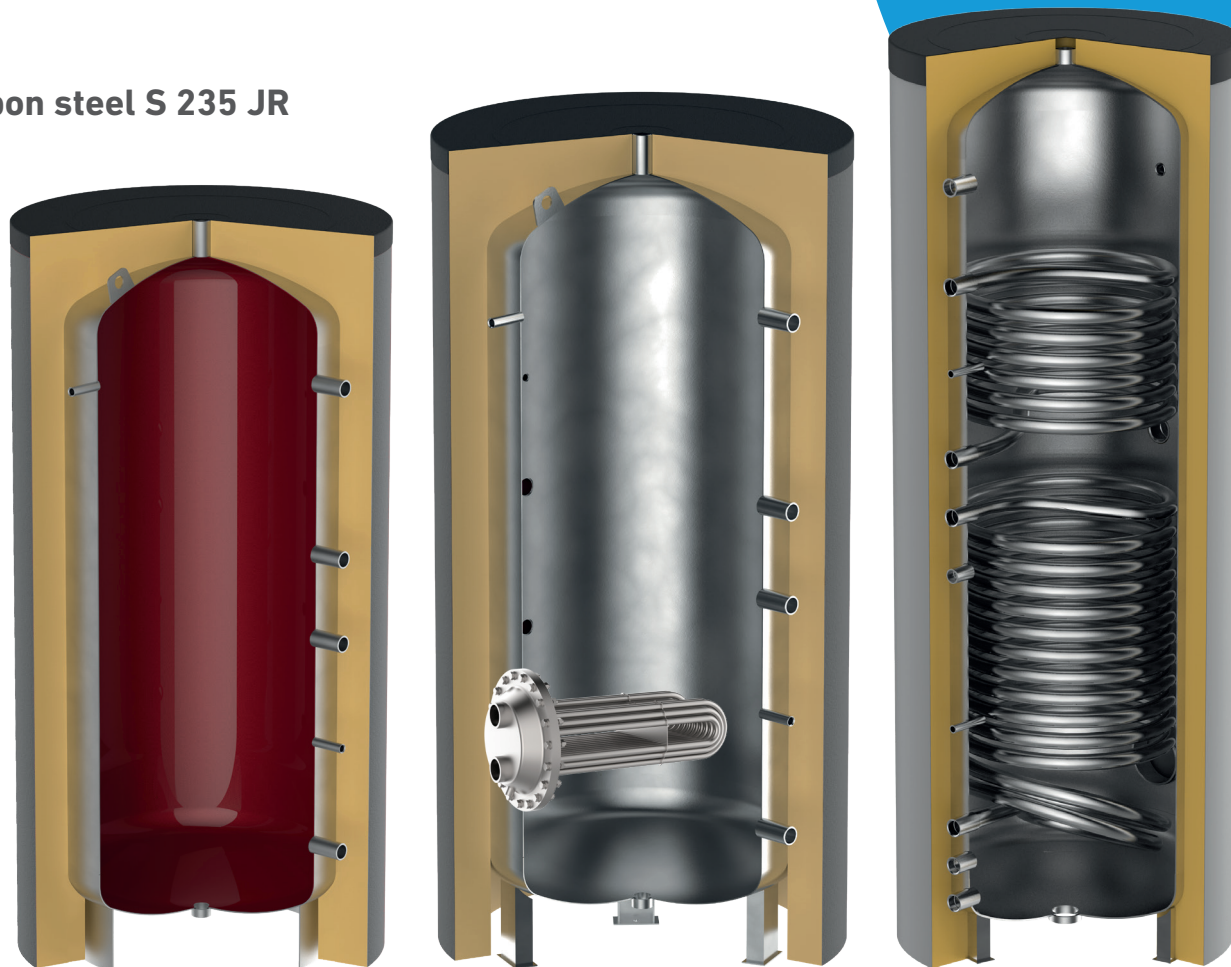
To meet customer's needs, customized solutions are designed and available.

FEATURES

- Standard capacity 80l - 10,000l
- Materials in stainless steel AISI 316L or Carbon steel S 235 JR
- Glass-lining treatment or Bluetech thermosetting resins
- Use limitations 95°C - 6 bar

PLUS

- Coils with large surface area
- High-performance insulation
- Reduced heat loss
- Tailored, customised solutions



Buffer tanks

The line of buffer tanks is used to store technical **hot, cold** or **hot/cold water**. Designed for highly efficient heating, air-conditioning and cooling systems, they guarantee a thermal inertia to the system, significantly improving both operation and performance.

All the products can be made-to-measure with special commissions.

FEATURES

- Hot and cold technical water
- Capacity 40 ÷ 10,000 l
- High-performance insulation
- Use limitations 95°C - 6 bar

PLUS

- Integration of multiple energy sources
- Coils with large surface area
- Reduced heat loss
- ErP ready
- Tailored, customised solutions
- Excellent system performance

PED Directive 2014/68/EU certification

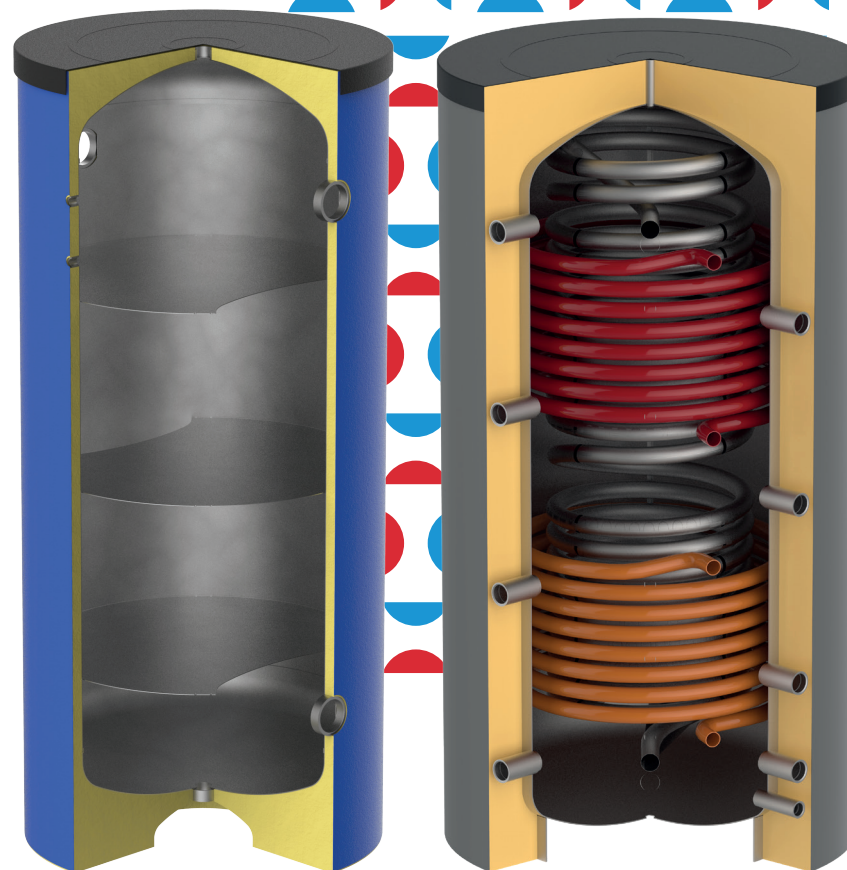
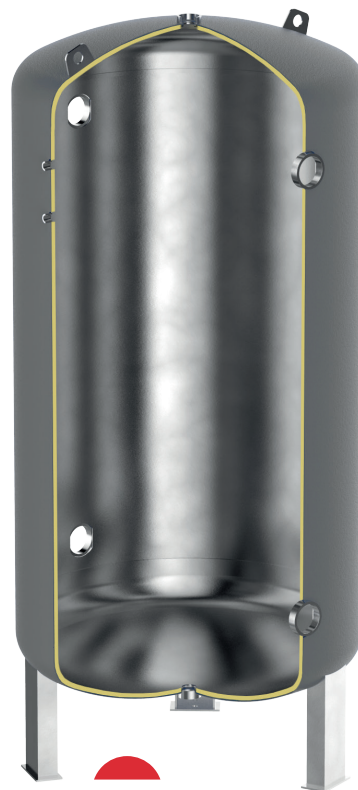


Plate heat exchangers

Plate exchangers are available in brazed and gasketed version. Heizer can select and size exchangers based on project requirements which means different type of fluid and infinite system conditions.

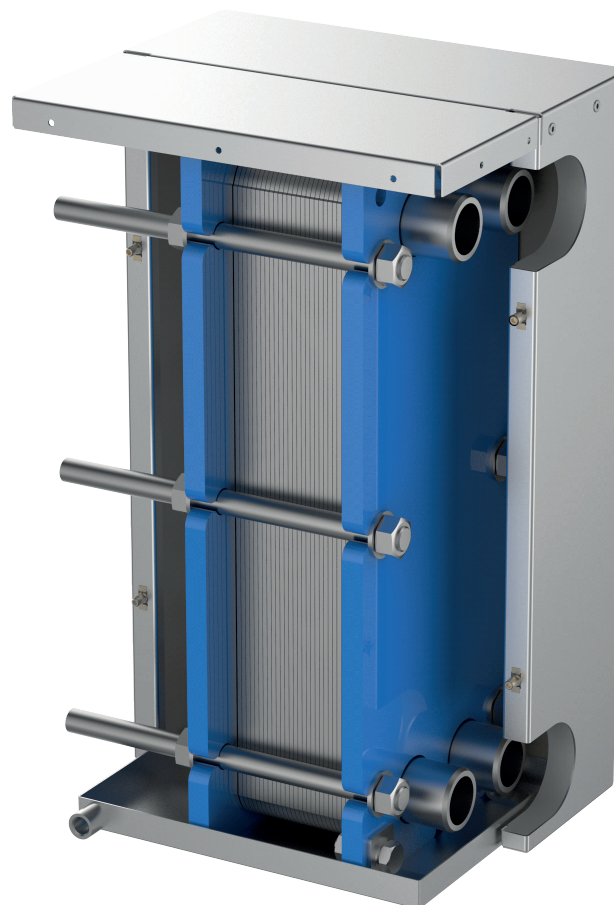
Compact design with a high surface exchange area.

FEATURES

- Power up from 1 kW to 30 MW
- Flow rate $0.5 \div 4,500 \text{ m}^3$
- Plate unit surface area $0.04 \div 3 \text{ m}^2$
- Working pressure $6 \div 25 \text{ bar}$
- Complete range from 1" to DN 500

PLUS

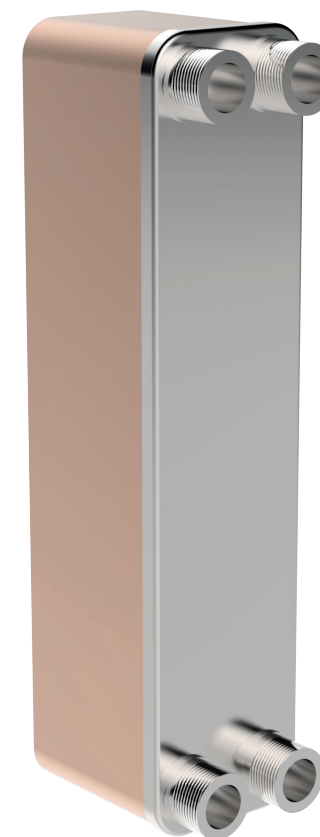
- High efficiency
- Non-adhesive gaskets
- Compact sizes
- Optional expansion
- Simple maintenance
- Excellent thermal exchange efficiency



GASKETED PLATE EXCHANGERS
- Fluids water, oils, foods, acids

BRAZED PLATE EXCHANGERS

- Fluids
- Heating/cooling of technical water or industrial
- High/low temperature $160+195^\circ\text{C}$
- Reduced weight



DHW Production units

Heizer supply various solution for the production of DHW.

Fast fresh water stations produce domestic hot water, transferring heat energy from a buffer tank directly to incoming domestic water from the mains water supply.

Fast heaters are used to produce domestic hot water (DHW) and then to store it.

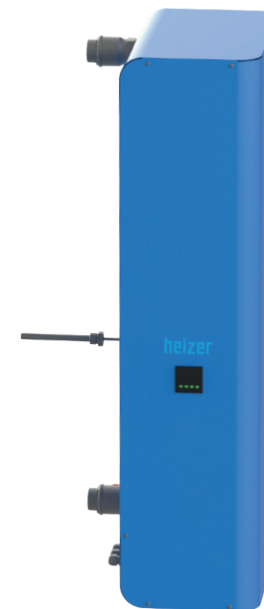
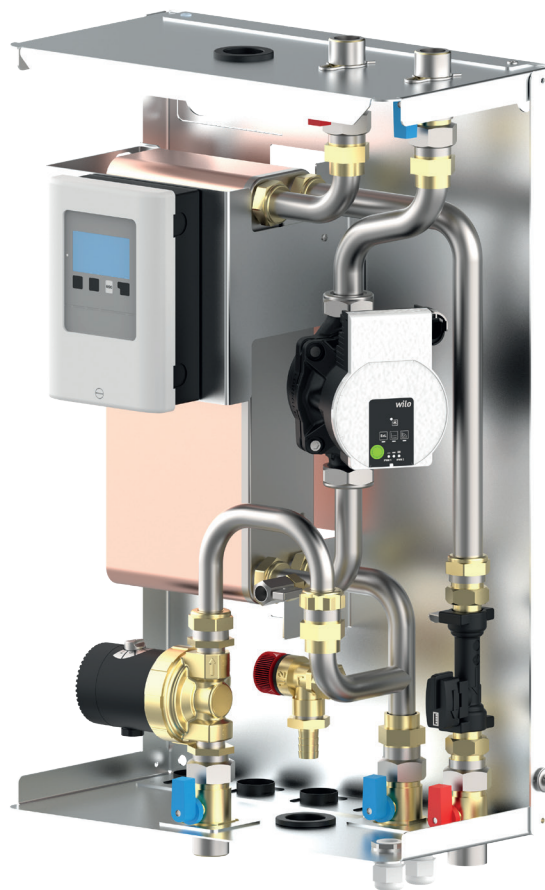
By combining a plate exchanger with a storage tank, you can exploit the heat energy to create and store domestic hot water.

FEATURES

- DHW production 2 ÷ 3,200 l/min
- Prevents legionella from forming
- Reduces the heat generator's consumption
- Reduces the formation of limescale
- Savings in energy and time
- Improved tank accessibility
- Simplified maintenance
- Maximum thermal efficiency

PLUS

- Controls and manages the heat generator
- Manages the recirculation pump
- Helps regulate the temperature of DHW
- No heating coils in the storage tank



Thermal solar systems

Solar energy is an inexhaustible and easily used resource for DHW production and heating. To create a tailored solar power system, Heizersile can supply the individual components such as: solar panels, pump units, solar control units and accessories.

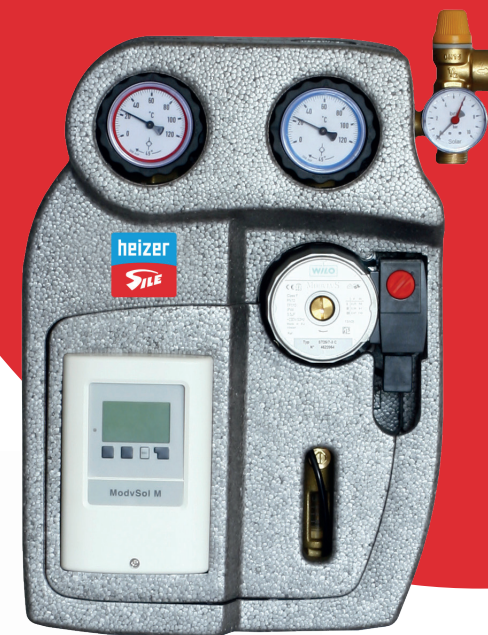
Solar energy which safeguards the environment ensures significant energy savings.

FEATURES

- Economic and energy savings
- Certification of the building
- Respect for the environment
- Minimal maintenance
- Fast installation
- Energy autonomy

PLUS

- Solar heating collector surfaces of 2/2.51 m²
- Up to 6 panels in a row
- Installation on tile/s or built into/on a support
- Forced circulation
- EN12975 certification



Steam generator

The steam range consists of generators with a usable power up to 6,808 kW and steam production up to 10,000 kg/h, with three-pass fire tube and a reverse flame firebox. The range also consists of storage tanks, deaerators and custom collectors.

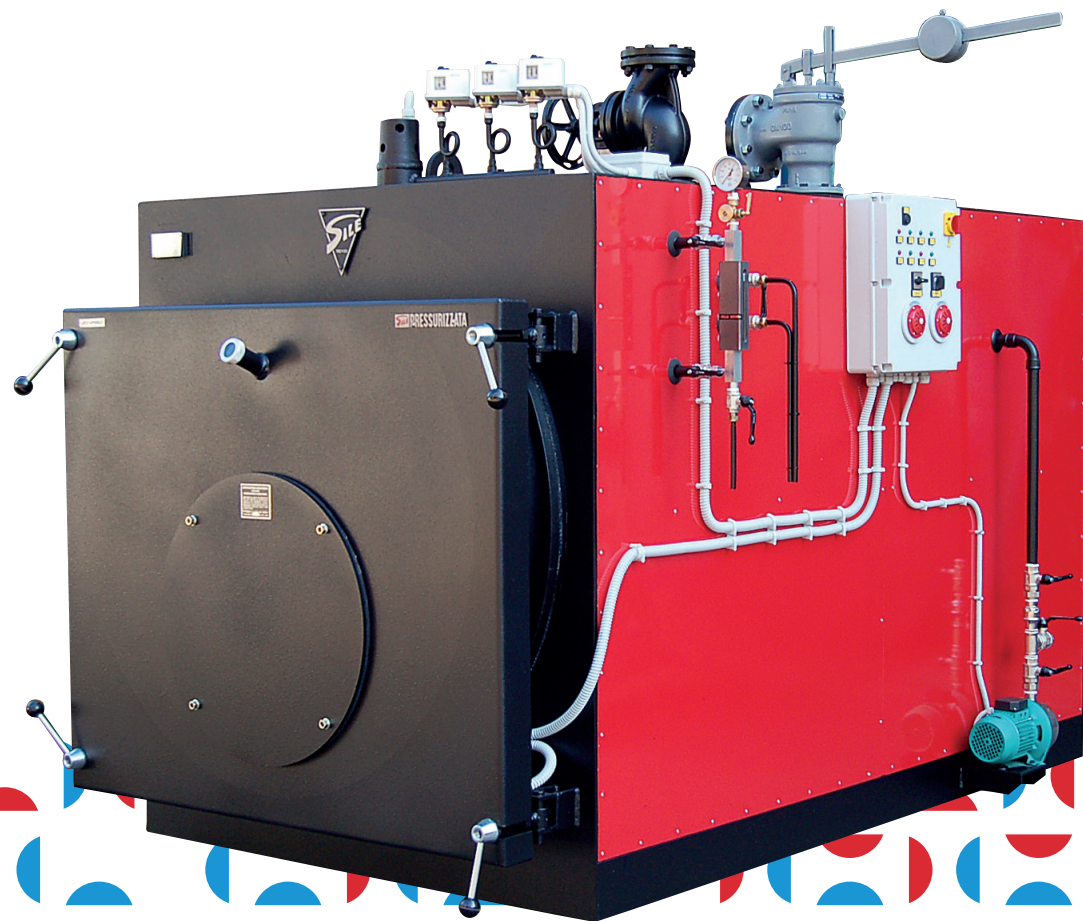
The company can design and manage production according to the requirements of the European Directive 2014/68/EU-PED. (Pressure Equipment Directive).

FEATURES

- Exterior anti-rust treatment
- Max pressure 12 bar
- Max temperature 191.5°C
- Large exchange surface area

PLUS

- Monobloc steam generators
- Reverse flame
- Three-pass fire tube
- Low thermal load
- High-quality steam
- Can be inspected
- High efficiency



Superheater water generators

Monobloc pressurised generators are designed for high efficiency in industrial process where the production of superheated water is required. The range consists of a three-pass fire tube construction including accessories and kit ready for use.

Manufactured and tested in compliance with the European Directive 2014/68/ EU (PED) - as a certified whole - and with the most recent national and European standards on pressure equipment.

FEATURES

- Monobloc pressurised generators
- Reverse flame
- Three-pass fire tube
- Production of superheated water
- Low thermal load
- High efficiency
- Exterior anti-rust treatment

PLUS

- Max pressure 5 bar
- Max temperature 120°C



Expanders

The expander line is designed for large-capacity thermal installations. They are used to limit the expansion of the water and maintain constant pressure during system operation through the automatic discharge/input of the gas.

The range consists of different variations of pressure dedicated to heating systems, DHW or refrigerated water production.

CE certified according to European Directive 2014/68/EU (PED)

FEATURES

- Usable expansion capacity 165÷3570 l
- Refrigerated water -10°C/110°C – 6 bar
- Hot thermal water ≤110°C – 6 bar
- Superheated water from ≤120°C – 5 bar to ≤191,5°C – 12 bar

PLUS

- Constant pressure and variable level
- Monobloc products
- Including installed accessories
- Customized tailor-made solutions



Autoclaves

The range consists of galvanised steel or stainless steel autoclaves, single unit pre-autoclaves and pressurisation units.

The single unit autoclave is a compact, pre-assembled unit which can guarantee a continual and constant flow of water.

They are plug and play, i.e. easy to install and guarantee the user a high-quality, reliable product fully tested in-house.

Certified as "ALL IN-ONE", they can be made-to-measure with special commissions.

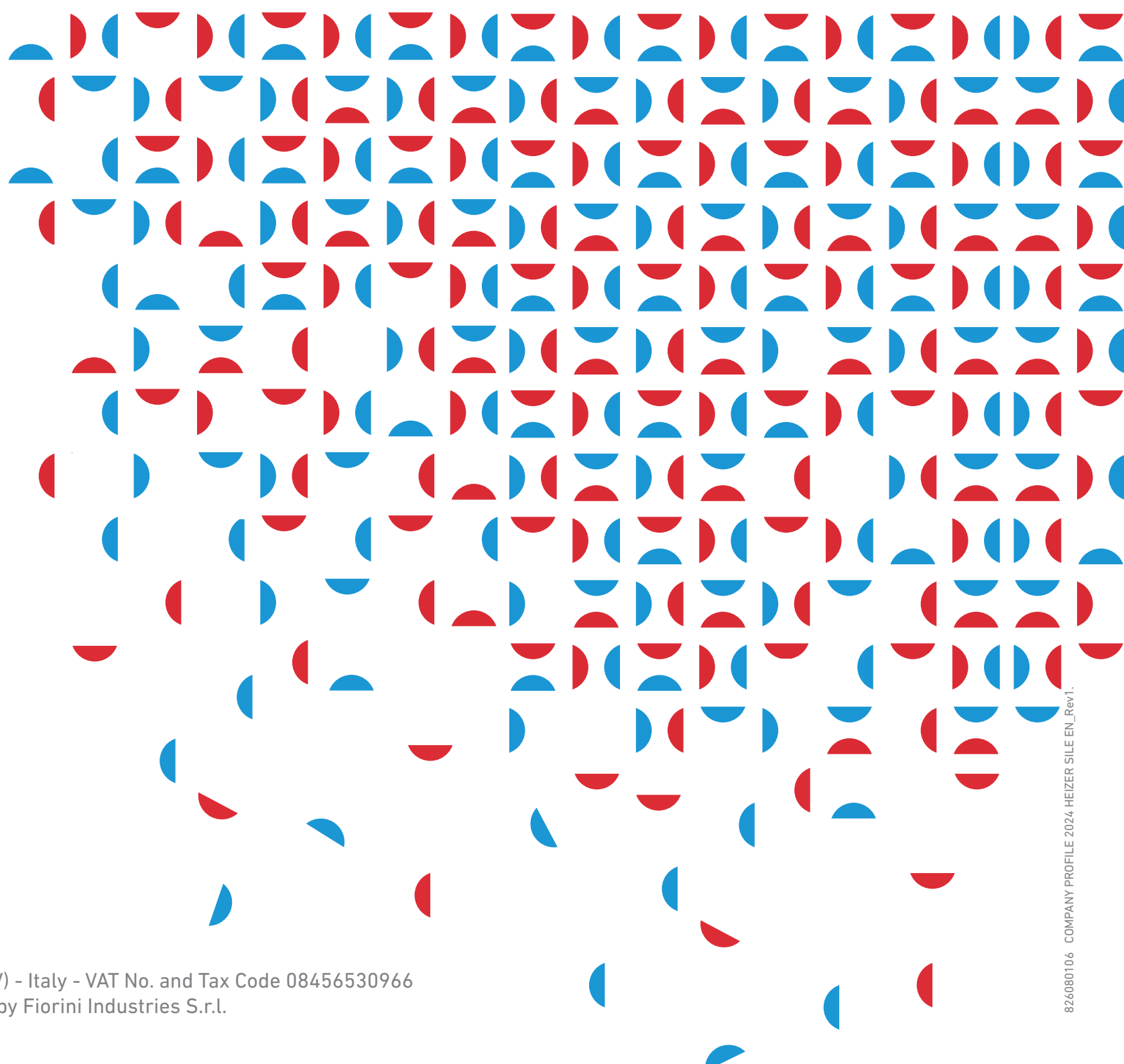
FEATURES

- Working temperature -10 +49°C
- Capacity from 300 to 10,000 l
- Supplied with "A" or "B" accessories
- Inverter of ON/OFF pumps
- Pre-assembled, cabled and tested system
- General electrical control panel

PLUS

- Includes air compressor or mains-operated air accessories
- Anti-condensation insulation in polyethylene mesh
- Certified as "ALL IN-ONE"





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