

INDUSTRIAL HEATING & ENERGY SOLUTIONS

Efficient and Reliable Heating Systems with Innovative Technologies

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GENEL KURULUŞ
ADRI KARLSTADT



Green Climate Inc. was established in 2010. Prior to its founding, the company gained extensive knowledge and experience in the field of climate control within the construction sector, particularly in the design and implementation processes. This expertise has enabled Green Climate to specialize in key engineering areas of the future, such as modern agricultural production and energy management.

With its corporate structure and innovative engineering solutions, Green Climate Inc. has become one of the leading engineering groups in the sector, successfully managing both production and the design and implementation stages of energy and power generation systems.

With over 14 years of experience, the company has implemented Dutch-style modern greenhouse climate control systems covering more than 350 hectares worldwide. It operates in various areas including greenhouse heating, cooling, humidification, CO₂ fertilization, buffer tank manufacturing and installation, solar (PV), wind, and geothermal energy projects, and boiler production. By integrating sustainable energy use into the greenhouse industry, Green Climate has established itself as one of the leading engineering companies in the sector.



General Kazan is the latest evolution of a team of experienced engineers and technicians who, over the past 25 years in Turkey, have designed numerous industrial boilers, installed them in boiler rooms with the highest level of technical precision and efficiency, implemented automation systems to ensure their safe and efficient operation, and provided professional after-sales services and spare parts support. By combining this extensive expertise with the collaboration of the company and the support of German technology, General Kazan delivers high-performance solutions.

Leveraging its deep knowledge and experience in manufacturing, and integrating advanced German technology, General Kazan builds energy-efficient systems for industrial boilers operating under high pressure and temperature conditions. With a commitment to sustainability, the company continuously adds new technologies and the latest products to its portfolio—offering solutions focused on renewable energy, improved energy efficiency, energy savings, and the reduction of greenhouse gas emissions.

General Kazan stands out with a wide range of products capable of operating on various fuel types. For gas fuels, the options include natural gas, LNG, and LPG; for liquid fuels, diesel, light oil, and heavy oil; and for solid fuels, alternatives such as coal, pellets, olive pomace, and hazelnut shells are available. The company manufactures steam boilers, hot water boilers, superheated water boilers, and thermal oil boilers in different capacities. It also produces auxiliary equipment such as flash steam recovery systems, closed and open condensate tanks, deaerators, and waste heat recovery systems.

Production takes place in our ISO 9001-certified factory using state-of-the-art cutting, bending, and welding technologies. All products are manufactured and tested in compliance with the 2014/68/EU Pressure Equipment Directive, as well as TSE, DIN, and EN standards. Materials are meticulously selected and designed based on the operating temperature and pressure, and all welding processes are carried out by certified welders in accordance with TS EN ISO 9606-1 standards. Product insulation is applied using materials and techniques that minimize heat loss, with a strong focus on energy efficiency throughout the process.



- To lead the industry by increasing investments in R&D and innovation,
- To develop sustainable solutions by focusing on green energy technologies,
- To provide comprehensive solutions for all heating and energy needs of the industry through a customer-oriented engineering approach,
- To strengthen our competitive power in the global market and become a preferred brand worldwide.



OUR MISSION

We aim to deliver innovative engineering solutions that meet world standards by embracing the principles of efficiency, reliability, and sustainability in the industrial sector. Our core objectives include enhancing industrial efficiency through renewable and sustainable energy solutions, maximizing customer satisfaction with high-quality products and engineering support, reinforcing our commitment to the environment by developing low-emission technologies, and becoming a preferred brand in the global market by offering smart and reliable solutions in heating and energy management.



OUR PRODUCTION AND QUALITY STANDARDS



At Green Climate and General Kazan, we are committed to producing industrial heating solutions that meet the highest quality standards. Through innovative engineering approaches and state-of-the-art manufacturing equipment, we develop reliable and long-lasting boiler systems tailored to meet the needs of modern industry.

Our Production Process

- **High-Precision Manufacturing:** We carry out production in accordance with international standards using advanced cutting, bending, and welding machines.
- **Fully Automated Systems:** Our production lines are equipped with fully automated systems that minimize human error and ensure consistent quality.
- **Material Selection:** Only high-quality, durable, and heat-resistant materials are used in our products to ensure long-lasting performance.
- **Energy-Efficient Design:** Our boilers are designed to deliver maximum performance with minimum fuel consumption, helping to reduce energy costs and increase efficiency.



Our Quality Standards

- All stages of our production are carried out under strict control within the framework of the ISO 9001 Quality Management System.
- Our boilers are manufactured and tested in compliance with the requirements of the 2014/68/EU Pressure Equipment Directive.
- Design, production, and testing processes are conducted in accordance with TSE, DIN, and EN standards.
- Welding Quality: All welding operations are performed by certified expert welders in line with the TS EN ISO 9606-1 standard.
- Testing and Inspection: Every product undergoes tightness, pressure, and performance testing during production to ensure quality assurance.



Our Eco-Friendly Production Approach

- Low Emission Technology: Our products are equipped with low-NOx combustion systems to minimize environmental impact.
- Recycling-Oriented Production: We adopt policies that encourage the recycling of waste materials throughout our production processes.
- Energy Savings: By using insulation techniques that reduce heat loss and advanced manufacturing technologies, we maximize energy efficiency in every step of production.



Customer Satisfaction and Reliability

- **Customizable Solutions:** We offer tailor-made design and production services to meet the specific needs of our customers.
- **Long-Lasting Products:** We manufacture durable boiler systems using enhanced materials and high-quality production processes that ensure long service life.
- **After-Sales Support:** Our technical support team provides comprehensive services, including installation, commissioning, periodic maintenance, and spare parts supply.
- **At Green Climate and General Kazan,** we hold a leading position in the industrial heating sector through our engineering excellence, high production standards, and customer-focused solutions.

PRODUCTION OF TECHNOLOGICAL HEATING AND ENERGY DEVICES

OIL AND GAS-FIRED CYLINDRICAL SCOTCH TYPE STEAM BOILERS



General Description:

These high-efficiency heating systems are widely used in industrial facilities and processes. With various pressure and capacity options, they can be adapted to different production needs. These boilers provide reliable and efficient solutions to meet high-capacity steam demands.

- Capacity: 100 kg/h – 30,000 kg/h
- Pressure: 0–20 bar
- Operating Temperature: 215°C
- Steam Production: Can be manufactured in different pressures and capacities depending on requirements
- Combustion System: Cylindrical Scotch type boiler with a 3-pass combustion design
- Efficiency: Delivers high combustion efficiency
- Control System: Equipped with automation panels for operational control
- Safety: Integrated with all necessary safety valves during the production process
- Custom Production: Can be specially manufactured to produce dry steam or superheated steam at high pressure and temperature, upon request
- Package Production: Can be delivered as a complete package with all necessary accessories if required

Type(G-SB)	Steam Capacity (kg/h)	Steam Capacity (lb/h)	Length (mm)	Width (mm)	Height (mm)	Diameter	Approximate Weight
5	150	330	1950	1350	1500	1100	1250
10	300	660	2100	1500	1500	1200	1500
15	450	990	2290	1650	1600	1300	2000
20	600	1320	2540	1650	1700	1400	2600
25	750	1650	2745	1800	1800	1500	3000
30	900	1980	2860	1800	1900	1500	3500
40	1200	2640	3250	1950	2000	1600	4600
50	1500	3300	3375	1950	2100	1700	5000
60	1800	3960	3820	2100	2200	1800	6100
80	2400	5280	4250	2100	2300	1900	7500
100	3000	6600	4525	2400	2400	2000	8900
125	3750	8250	4800	2400	2600	2200	11500
150	4500	9900	5250	2700	2800	2400	14800
200	6000	13200	5800	3000	3000	2600	19000
250	7500	16500	6300	3200	3300	2800	25000
300	9000	19800	6700	3400	3500	3000	30000
350	10500	23100	7500	3600	3800	3200	35000
400	12000	26400	7900	3800	4000	3400	37000

Notes

- Steam production is calculated based on 6 bar operating pressure and 70°C feedwater temperature.
- Approximately 600 kcal of energy is required to produce 1 kg of steam.
- Dimensions and capacities may vary depending on technological requirements.



DESIGN

- High Pressure
- 3-Pass Flow
- Fire-Tube
- Cylindrical
- Scotch Type Steam Boilers are designed in compliance with TS EN 12953.
- Designed in accordance with TRD, DIN, EN, and GOST standards.

MATERIALS

The materials used in our manufacturing processes include:

- Shells
- Tube Sheets
- Combustion Chamber: Manufactured from P265GH or P355GH grade steel, in accordance with EN 10028 standards.
- Smoke Tubes: Boiler tubes compliant with EN 10216 or EN 10217 standards.



HIGH EFFICIENCY

- Three-Pass Design: The three-pass structure of the boilers ensures that the flame and flue gases resulting from optimal combustion are distributed across wide heating surfaces. This design maximizes heat transfer while minimizing the risk of corrosion.
- Large Evaporation Surface and Combustion Chamber: The large steam volume and box-type combustion chamber contribute to increased energy efficiency.
- Testing and Inspection Process: After production, each boiler undergoes hydrostatic testing and is approved in accordance with standard pressure values.
- Ease of Cleaning: Smoke tubes can be cleaned from the front covers. Access to the combustion chamber is made possible through a manhole on the top cover or two handholes on the side.



DETAILS

- Combustion Chamber: The large volume inside the boiler allows for complete circulation of gases generated during combustion, ensuring efficient heat exchange.
- Smoke Tubes: Designed to provide sufficient heat transfer and can be easily cleaned when needed.
- Ease of Maintenance: Access is provided through the top and side covers of the boiler, allowing for straightforward inspection and maintenance.

COMPACT STEAM GENERATORS



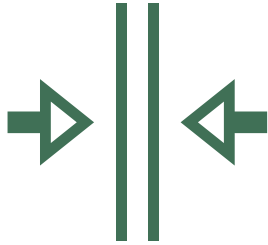
General Description:

- Liquid and gas-fired steam generators are reliable, high-efficiency systems designed for industrial processes.
- Their compact design saves space and offers ease of use.
- High Performance: Engineered with advanced technology and energy-saving solutions.
- Steam Production: Can be manufactured in various pressures and capacities depending on the application.
- Efficiency: Offers high combustion efficiency.
- Control System: Equipped with automation panels for precise and safe operation.
- Application Areas: Widely used in laundries, garment and knitwear manufacturing, feed industry, concrete curing, beverage industry, dry cleaning, small textile facilities, hosiery production, foundries, and steam-assisted operations.
- Package Production: Can be supplied as a complete package including all necessary accessories upon request.

Type (G-CSG)	Steam Capacity (kg/h)	Steam Capacity (lb/h)	Length (mm)	Width (mm)	Height (mm)	Diameter	Approximate Weight
100	100	220	1500	1000	1800	800	750
200	200	440	1600	1100	1900	900	850
300	300	660	1800	1200	2000	950	1050
400	400	880	1900	1400	2100	1000	1350
500	500	1100	2000	1500	2200	1200	1650
600	600	1320	2200	1600	2300	1250	1850
750	750	1650	2500	1800	2500	1300	2100
1000	1000	2200	2950	1900	2600	1350	2500
1250	1250	2750	3100	2000	2700	1400	3100
1500	1500	3300	3400	2100	2800	1500	3700
1750	1750	3850	3500	2200	2900	1600	4000
2000	2000	4400	3800	2300	3000	1650	4500
2500	2500	5500	4000	2400	3100	1700	5100
3000	3000	6600	4200	2500	3200	1800	5700

Notes

- Dimensions may vary depending on technological advancements.
- Generators feature a compact design that requires minimal space.
- They offer cost advantages through high efficiency and low energy consumption.



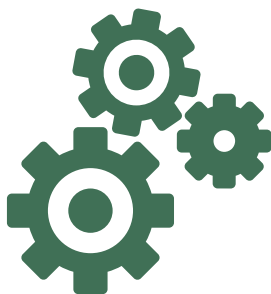
SPACE EFFICIENCY

- Minimal Knowledge, Maintenance, and Supervision Required
- Requires minimal installation space, offering significant space savings.
- Can be operated easily without the need for extensive knowledge, maintenance, or supervision.
- Provides fast and economical steam production in a very short time.



DURABILITY AND PRODUCTION

- Built for Heavy-Duty Conditions: Designed to withstand harsh operating environments and is resistant to damage from hard or murky water.
- Automatic and Safe Operation: Equipped with multiple safety systems that work in sequence for secure functioning.
- Proven Performance: Demonstrated long-term reliability with hundreds of units operating successfully in Turkey and abroad.
- This compact unit includes the following components:
 - Burner
 - Feedwater Pump
 - Condensate Tank
 - Water Filters
 - Automatic Water Softening Unit
 - Electrical Panel



COMPONENTS INCLUDED IN THE G-CSG TYPE COMPACT STEAM GENERATOR UNIT

- Steam Generator
- Boiler Fittings and Accessories
- Feedwater Tank and Fittings
- Condensate Tank and Fittings
- Burner
- Automatic Water Softening Unit
- Electrical Panel and Wiring Installation

STRAIGHT WATER TUBE STEAM GENERATORS



General Description:

- Liquid and gas-fired steam generators are designed to provide high efficiency and durability.
- Unique in Turkey: This innovative generator offers a one-of-a-kind design not found elsewhere in the country.
- Energy Efficiency: Suitable for applications requiring high steam pressure and high temperature, ensuring safe and reliable performance.
- With a very low water volume, it can be safely installed within the facility.

Steam Capacity (kg/h)	Length (mm)	Width (mm)	Height (mm)	Approximate Weight (kg)	Chimney Diameter (mm)
500	2890	2350	3330	4000	300
1000	3355	2350	3330	4800	300
1500	3910	2350	3330	5400	300
2000	4150	2600	3492	5900	400
2500	4360	2600	3492	6500	400
3000	4500	3000	3780	7100	500
4000	5260	3250	4120	8300	500
5000	5745	3700	4500	9600	650

Note: Dimensions may vary depending on technological advancements.



COMPACT DESIGN WITH AUTOMATIC AND RELIABLE SAFETY SYSTEMS

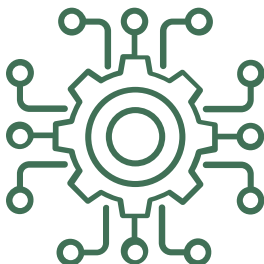
Fast and Economical Steam Production

This steam generator is ideal for facilities requiring high-pressure steam up to 30 bar. Thanks to its low water volume, it is particularly suitable for installations where large water-volume boilers cannot be used due to regulations set by the Ministry of Labor and local authorities. It enables rapid and cost-effective steam production, while its compact design and built-in automatic safety systems ensure safe and efficient operation.



STRAIGHT WATER TUBE DESIGN

Since the water tubes are straight rather than spiral (helical), the formation of scale or accumulation of sludge inside the tubes is effectively prevented, ensuring cleaner and more efficient operation over time.



COMPACT AND INTEGRATED SOLUTIONS

The unit includes a water separator that prevents water carryover with the steam, ensuring the production of high-quality dry steam even during sudden demand surges, thanks to the integrated steam dome acting as a steam reservoir. It also features a feedwater pump and an automatic water softening unit. With its electrical panel and wiring included, the system offers a fully compact and integrated design.

SPIRAL TUBE STEAM GENERATORS



General Description:

- Liquid and gas-fired steam generators feature a modern design that delivers reliability and high efficiency for industrial processes.
- Compact and Efficient: Designed to occupy minimal space while offering ease of maintenance and cleaning.
- Energy Saving: Provides economical solutions through high energy efficiency.

With 40 Years of Experience: First-Class Workmanship and Material Quality

Capacity (kg/h)	Capacity (lb/h)	Length (mm)	Width (mm)	Height (mm)	Diameter	Approximate Weight
200	900	1400	1100	1200	1600	710
300	1050	1700	1250	1350	1900	950
400	1050	1700	1250	1350	1900	1050
500	1050	1900	1300	1400	2000	1350
600	1260	2100	1300	1400	2390	1580
750	1260	2100	1300	1400	2390	1580
1000	1260	2400	1300	1400	2800	2100
1250	1310	2600	1400	1400	2700	2180
1500	1360	2640	1600	1600	2700	2180
1750	1400	2780	1600	1600	2800	2380
2000	1520	2900	1700	1800	2900	2500
2500	1700	3000	1780	1880	3000	2700
3000	1780	3300	1980	2080	3300	2950

Notes

- Dimensions May Vary with Technological Advances: The dimensions and capacities provided in the table are subject to change depending on technological developments.
- High Efficiency: The spiral tube design ensures maximum heat transfer.
- Durable and Compact: Manufactured with long-lasting materials, making it ideal for industrial facilities.



DESIGN

- Complies with CE certification requirements
- Conforms to the EU Pressure Equipment Directive 2014/68/EU
- G-SWTSG type spiral tube packaged steam generators
- Designed in accordance with EN 12952 standards

SPIRAL TUBE DESIGN

The spiral tubes are specifically optimized with consideration of the hard water conditions commonly found in our region, and designed to meet the following parameters:

- Heat Transfer: Maximized heat transfer ensures high efficiency.
- Pressure Loss: Pressure losses are minimized to maintain system performance.
- Blockage and Corrosion: The risk of coil blockage and tube perforation is significantly reduced.



MATERIALS

The materials used in our manufacturing process include:

- Components exposed to high temperatures are made from P355GH or P265GH boiler plates, in compliance with EN 10028 standards.
- The coils (serpentines) are manufactured from normalized seamless steel tubes in accordance with EN 10216-2 standards.



EFFICIENCY

Depending on the operating pressure, an efficiency rate of 85% to 88% can be achieved.

Ease of Use

- Delivered as a fully assembled unit, ready for operation with all components included.
- Comes with all necessary connections pre-installed.
- Can be operated without requiring extensive knowledge or constant supervision.
- Easy to maintain.

ELECTRIC STEAM GENERATORS



General Description:

- Electric steam generators are compact and safe systems that offer high energy efficiency and user-friendly operation.
- With their eco-friendly design, they reduce emissions to zero, providing sustainable energy solutions.
- They are designed to meet the instant steam demand of small and medium-sized enterprises. These devices offer the advantages of rapid steam production and low energy consumption, delivering high efficiency. Especially ideal for businesses requiring low-capacity steam.
- Capacity: 100 kg/h – 1,000 kg/h
- Pressure: 0–5 bar
- Operating Temperature: 156°C
- Steam Production: Can be manufactured in different pressures and capacities depending on specific needs
- Efficiency: Offers high thermal efficiency
- Control System: Equipped with automation panels for reliable and easy operation

Type (G-ESG)	Steam Capacity (kg/h)	Steam Capacity (lb/h)	Electric Power (kw)	Feedwater Pump Power (kW)	Maximum Operating Pressure (bar)	Approximate Weight	Dimensions (mm)
40	57	125	40	1.5	10	570	1500x1250x1500
50	72	160	50	1.5	10	570	1500x1250x1500
60	86	190	60	1.5	10	570	1500x1250x1500
70	100	220	70	1.5	10	570	1500x1250x1500
80	115	250	80	1.5	10	570	1500x1250x1500
90	129	280	90	1.5	10	570	1500x1250x1500
100	143	315	100	1.5	10	570	1500x1250x1500
120	172	380	120	1.5	10	570	1500x1250x1500
150	215	470	150	1.5	10	570	1500x1250x1500

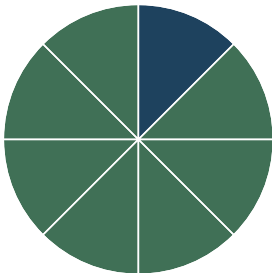
Note:

- Dimensions may vary depending on technological advancements.
- Can be manufactured as a complete package with all accessories upon request.



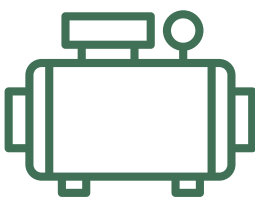
ECONOMY, PRACTICALITY, AUTOMATION, AND SAFETY

- Rapid and Cost-Effective Steam Production, Designed to generate steam quickly and efficiently.
- Built for Heavy-Duty Conditions: Resistant to the effects of hard and murky water.
- Heat Loss Prevention: Insulated with 0.7 mm painted sheet metal to minimize heat loss.
- Compact Solution: Delivered as a complete unit including the feedwater pump, optional water treatment unit, condensate tank, and electrical panel.



GENERAL AREAS OF USE

- Facilities with low-capacity steam requirements
- Dry cleaning
- Garment and knitwear manufacturing workshops
- Other facilities requiring steam
- Laundries
- Feed industry
- Concrete curing plants
- Beverage industry
- Hosiery production



COMPONENTS INCLUDED IN THE G-ESG TYPE COMPACT STEAM GENERATOR UNIT

- Steam Generator: Delivers maximum performance.
- Boiler Fittings: Ensure safe and efficient operation.
- Condensate Tank: Optimized for water supply and return.
- Water Treatment Unit: Provides water softening and purification.
- Electrical Panel and Wiring: Offers a robust electrical connection infrastructure.

LIQUID AND GAS-FIRED SCOTCH TYPE HOT WATER / SUPERHEATED WATER BOILERS

CUSTOM-DESIGNED
FOR GREENHOUSES



General Description:

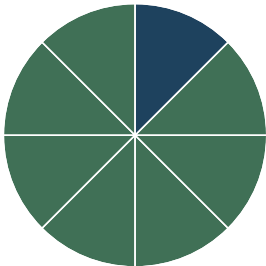
- These boilers are commonly used as central heating systems in large-capacity greenhouses.
- Combustion System: 3-pass fire-tube design.
- Efficiency: Provides combustion efficiency up to 93.5%.
- Control System: Equipped with automation panels for precise and safe operation.
- Service Life: Under typical local conditions, the economic lifespan is 20–25 years.
- SCOTCH type hot/superheated water boilers are high-tech products offering excellent efficiency and reliability. They are widely utilized in the greenhouse sector, operating to maximize energy usage. Their high efficiency contributes significantly to reducing energy costs.
- These boilers are compatible with both liquid and gas fuels, giving users flexibility based on their available fuel sources.





DURABILITY

Manufactured using materials resistant to extreme heat and pressure, these boilers offer a long-lasting and reliable service life.



GENERAL AREAS OF USE



- Large-scale greenhouse heating systems
- Agricultural facilities requiring centralized hot or superheated water
- Industrial plants with high-capacity heating needs
- Facilities operating with liquid or gas fuel infrastructure
- Energy-efficient heating systems for commercial buildings and complexes



SAFETY

Equipped with automatic safety mechanisms for critical conditions such as overheating, overpressure, and low water levels, these features help prevent potential accidents and ensure safe operation at all times.

LIQUID & GAS-FIRED PRISMATIC HOT WATER BOILERS



General Description:

- For high capacities, cylindrical Scotch-type designs are preferred, while prismatic structures are ideal for lower capacities. These boilers offer a long-lasting and high-efficiency heating solution and are widely used in residential heating systems, industrial facilities, greenhouses, and commercial buildings.
- Capacity: 100,000 kcal/h – 10,000,000 kcal/h
- Combustion System: 3-pass combustion design
- Efficiency: Combustion efficiency up to 93.5%
- Control System: Equipped with automation panels for easy and safe operation
- Fuel Options: Can be fitted with either single-fuel or dual-fuel burners
- Service Life: Economic operating life is 20–25 years under typical local conditions
- Flexibility: Operates as a back-pressure system and can function either as a single boiler or as part of a cascade system for larger projects

Type G-HWB-2P – Capacity and Main Dimensions

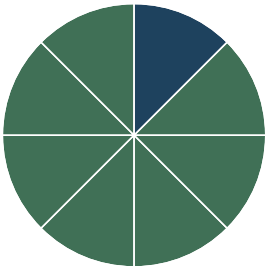
Type (G-HWB-2P)	Nominal Capacity (kcal/h)	Length (mm)	Width (mm)	Height (mm)	Boiler Outlet Diameter (inch)	Boiler Inlet Diameter (inch)	Water Volume	Weight (kg)
100	500,000	1500	800	1000	1 1/4"	1/2"	25	590
500	1,000,000	2000	1000	1250	2"	1/2"	45	1500
1000	2,000,000	3000	1250	1700	2 1/2"	1/2"	85	2500
2000	3,000,000	3500	1400	1900	3"	1/2"	150	3900
3000	4,000,000	4000	1800	2150	3"	1/2"	195	5900
4000	5,000,000	5000	2100	2400	3"	1/2"	280	7825

Notes: Dimensions may vary depending on technological advancements.



SPACE SAVINGS, FUEL SAVINGS, LOW EMISSIONS, ENVIRONMENTALLY FRIENDLY, ECONOMICAL:

- Starts up quickly, improving boiler efficiency.
- A 3-pass back-pressure boiler with a wide combustion chamber where the flame reverses, ensuring efficient heat exchange.
- Can be equipped with an eco panel and a 3-way valve, which adjusts the boiler outlet water temperature based on the outside air temperature, providing energy savings.



GENERAL AREAS OF USE

- Apartments
- Hotels
- Hospitals
- Factories and similar facilities



SAFETY

Necessary safety valves are integrated into the boiler during the production process to ensure secure operation.

SOLID FUEL STOKER-DRIVEN AUTOMATIC AUGER FEED STEAM AND HOT WATER BOILER

CUSTOM-DESIGNED
FOR GREENHOUSES



General Description:

- With their high-capacity and durable design, these boilers are ideal for industrial facilities and areas where natural gas is unavailable, providing high-flow and high-pressure steam production.
- Capacity:
- Steam boilers: 100 kg/h - 5,000 kg/h
- Hot water boilers: 100,000 - 3,500,000 kcal/h
- Operating Pressure: 0 - 15 bar
- Outlet Temperature:
- For steam: Maximum 200°C
- For hot water: Average 110°C
- Steam Pressure: Adjustable between 3 - 15 bar
- Combustion System: Designed with a 3-pass combustion construction
- Fuel Feeding: Equipped with an automatic stoker system
- Control System: Managed with advanced automation panels
- Safety Features: Safe operation ensured with international standard production and integrated safety valves
- Fuel Options: Compatible with various solid fuel types
- These boilers offer high efficiency and long service life, making them a reliable option for industrial needs.

TYPE G-SF / G-HWB-3P-S – CAPACITY AND MAIN DIMENSIONS

Type (G-SF / G-HWB-3P-S)	Steam Capacity (kg/h)	Water Capacity kcal/h	Length including Burner mm	Width (mm)	Height (mm)	Water Volume	Operating Pressure	Pipe Diameter	Weight (kg)
50/100	500	500000	2125	1200	1800	400	0.75	1" 1/4	590
750/1500	750	750000	2950	2125	2250	1140	1.14	2"	1150
1000/2000	1000	1000000	3250	2125	2350	1620	1.5	2"	1450
1500/3000	1500	1500000	3570	2125	2850	2550	2.5	2" 1/2	2250
2000/4000	2000	2000000	3950	2125	2800	3300	3.5	3"	2750
2500/5000	2500	2500000	4400	2125	3000	4000	3.98	3"	3350

Notes: Dimensions may vary depending on technological advancements.

BOILER SUPPORT UNITS



Water Filters



Single and Multi Cyclone Filters



Piano Type Electrical Panel and Control System

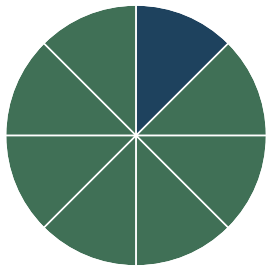


PLC and Automation Panel



THREE-PASS, ENVIRONMENTALLY FRIENDLY, AUTOMATIC CONTROL SYSTEM

Especially in coal-fired boilers, a 3-pass construction should be preferred to achieve efficient combustion and high efficiency.



GENERAL AREAS OF USE

The main areas of use include comfort facilities, greenhouses, farms, chemical processes, food industry, sterilization, fertilizer industry, construction materials sector, paper industry, and wood processing plants.



EFFICIENCY

It offers high combustion efficiency.

LIQUID & GAS-FIRED MOBILE STEAM PLANT MOBILE HEAT STATION



Liquid and Gas-Fired Mobile Steam Plants and Mobile Heat Stations offer excellent solutions for dynamic and mobile requirements, such as construction sites, emergency response areas, and temporary operations. These systems are designed as fully integrated, ready-to-use mobile units housed in containers. Their portability allows for easy transportation to various locations.

General Features:

- **Versatile Fuel Options:** These systems are compatible with both liquid and gas fuels, offering flexible solutions even in areas where fuel supply is challenging.
- **Comprehensive Functionality:** A wide range of functions, including steam, heating, hot water, pressurized water, and softened water production, are combined in a single mobile unit. They are also ideal for high-temperature hot oil needs.
- **Quick Setup and Use:** These systems come fully assembled in a container and are ready for use as soon as they are delivered, requiring no complex installation processes.
- **Portability:** Easily transportable by truck or trailer, making them perfect for emergency situations or temporary projects. They play a critical role in construction sites with high activity levels.
- **Durable and Reliable:** Built with robust structures and high-quality materials, these systems perform reliably under tough conditions, offering long-term dependability.
- **Energy Efficiency:** With high-efficiency combustion technology, these systems minimize energy consumption while delivering maximum performance.

Areas of Use:

- **Construction Sites:** Ideal for meeting temporary or permanent heating and water needs.
- **Emergency Response Areas:** Critical for rapid deployment in the aftermath of natural disasters, offering a quick and reliable solution.
- **Temporary Event Spaces:** Provides essential services for temporary gathering places such as festivals or sports events.
- These mobile systems offer fast and efficient solutions for a wide range of applications, addressing the challenging needs of users. With their high functionality and ease of use, liquid and gas-fired mobile steam plants and mobile heat stations are leading options in the field of mobile energy solutions.



Waste Heat Boilers

These systems are used to recover heat from the flue gases emitted from steam boilers, superheated water boilers, hot water boilers, and thermal oil boilers. They improve energy efficiency by utilizing the waste heat from the flue gases for boiler feedwater, process hot water, domestic hot water, heating systems, or steam production.

- Capacity: Applicable in boilers producing 500 kg/h or more of steam.
- Efficiency: By recovering heat from the flue gases, the system raises the temperature of the boiler feedwater or process water, resulting in 2-5% fuel savings.
- Operating Temperatures:
 - Steam boilers: Flue gas temperature is approximately 300°C, Thermal oil boilers: Flue gas temperature is 400°C, Cupola furnaces: Flue gas temperature is 650°C, Forge furnaces: Flue gas temperature is 900°C, Diesel engines: Flue gas temperature is 600°C, Glass melting furnaces: Flue gas temperature is 750°C, Cement kilns: Flue gas temperature is 900°C

For every 20°C drop in flue gas temperature, approximately 1% fuel savings is achieved.

- Return on Investment:
 - For non-condensing economizers, the payback period is between 2 to 4.5 months.
 - For condensing economizers, the payback period is between 3 to 5 months.



Water Tube Steam Boilers

These boilers are designed to meet the high steam demand of large industrial plants, industrial operations, and district heating systems. They provide high energy efficiency and deliver optimal performance in large-scale facilities.

- Capacity: 15 tons/h – 100 tons/h
- Pressure: 60 bar
- Operating Temperature: 500°C
- Fuel Types: Can operate with liquid and gas fuels
- Combustion System: Manufactured with a 4-pass design
- Steam Production: Can be produced in different pressures and capacities based on requirements
- Efficiency: Offers high combustion efficiency
- Control System: Equipped with automation panels for precise control
- Production Standards: Manufactured in accordance with EN 12952 standards
- Safety: Controlled according to the 2014/68/EU Pressure Equipment Directive and Module G, and produced with CE certification.

CLOSED CONDENSATE TANKS



Closed condensate systems are specifically designed for processes where steam is used in a fully closed loop, meaning the steam is not directly supplied to the product or heated area, and all of it is returned. These systems aim to recover the heat and water from steam exiting open condensate tanks. Closed condensate tanks offer a more reliable and efficient option compared to open systems.

Technical Specifications and Advantages

Closed condensate tanks operate within a fully pressurized system, ensuring that pressure losses in the condensate line only arise from steam traps and friction within the pipes. One of the main advantages of this system is that the condensate cannot expand to atmospheric pressure, preventing flash steam formation. This helps maintain the water temperature and minimizes heat loss. Key benefits include:

Energy Efficiency and Low Consumption

- **Reduced Energy Requirement:** Since the feedwater is close to the saturation temperature at the boiler operating pressure, the amount of sensible heat required to be supplied to the boiler before evaporation is significantly reduced.
- **Low Pump Energy Consumption:** Energy consumption is kept at a minimum because the difference between pump suction and discharge pressures is low.

Sustainable Water Management

- **Prevents Feedwater Loss:** The closed system eliminates feedwater loss entirely. This makes processes such as water softening, gas removal, and demineralization unnecessary, thereby reducing operational costs.

Extended Boiler Lifespan

- **Prevents Thermal Shocks:** With minimal temperature difference between the feedwater and the water in the boiler, the risk of thermal shock is greatly reduced, leading to a longer boiler lifespan.
- **Pump Protection:** High suction pressure prevents cavitation and wear in the pump, protecting its longevity.

Operational Advantages

- Prevention of steam loss from open condensate tanks to the atmosphere.
- Reduced consumption of salts and electricity for water conditioning.
- Decreased need for surface blowdown and purging in the boiler.
- Reduced risk of corrosion due to high conductivity.
- Lower risk of scale formation in the boiler.

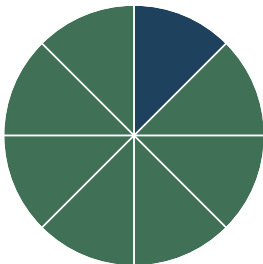


ENERGY SAVINGS AND QUICK PAYBACK

The economic advantages of closed condensate systems are evaluated based on the system's steam capacity and operating pressure.

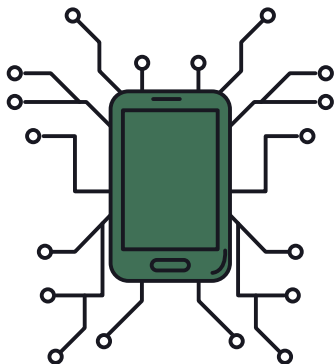
Closed systems provide up to 12.3% lower heat consumption compared to open systems. This translates into up to 25% savings in fuel consumption on an annual basis. Additionally, benefits such as extended boiler lifespan, reduced electricity consumption, and lower feedwater preparation costs are also achieved. For these reasons, investment in closed condensate systems typically pays for itself within a short period, usually around one year.

Closed condensate systems are an ideal solution for industrial facilities seeking to increase energy efficiency, reduce operating costs, and contribute to environmental sustainability. The technical and economic advantages of this system make it highly profitable in both the short and long term.



GENERAL AREAS OF USE

Closed systems are ideal for places where steam operates at high working pressure and in a closed loop, such as in areas where steam is not consumed directly in open form, like in corrugated cardboard production and similar processes.



AUTOMATIC CONTROL SYSTEMS

Advanced automation panels ensure that steam and heat production consistently occur under optimal conditions. Temperature, pressure, and other operational parameters are automatically adjusted, preventing energy waste and maximizing system efficiency.

HOT OIL BOILERS

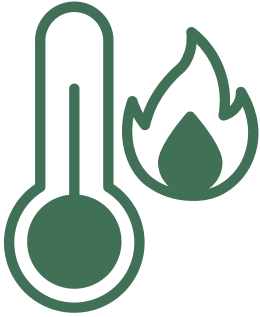


General Description:

- **Liquid and Gas-Fired:** Hot oil boilers, which provide high energy efficiency and low emissions, are ideal for industrial applications.
- **High Performance:** These systems offer maximum heat transfer and efficient operation.
- Hot oil boilers use special thermal oils to carry out heating processes. On one side of the boiler, there is a chamber where the oil is heated, and on the other side, a flue system is installed to evacuate the smoke created by combustion.
- Thermal oils can rapidly reach high temperature levels and do not experience evaporation issues. Hot oils can achieve temperatures up to 350°C, offering significant advantages in terms of cost efficiency, ease of use, and accessibility.
- **Fuel Types:** Can operate with liquid, gas, and solid fuels.
- **Combustion System:** Available models include rotary grate, fluidized bed, and forced draft hot oil boilers.
- **Capacity Range:** From 5,000,000 kcal/h to 25,000,000 kcal/h, with larger capacities available upon request.

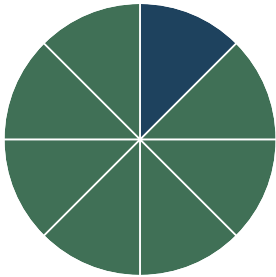
Type (G-TOB)	Heat Capacity (kcal/h)	Length (mm)	Width (mm)	Height (mm)	Chimney Diameter (mm)	Approximate Weight (kg)
100	116	1250	1880	2500	300	920
300	390	1500	2000	2700	350	1875
500	581	1600	2150	2850	400	2645
800	930	2000	2400	3100	450	4100
1000	1162	2200	2550	3300	500	5000
1500	1744	2450	2850	3600	600	8300
2000	2325	2650	3100	4000	650	10850
2500	2906	2800	3350	4250	700	13377
3000	3487	3000	3500	4500	750	16500
4000	4650	3300	3750	4750	800	20890
5000	5812	3600	4000	5000	850	24500
8000	9300	4000	4200	5500	950	36650
10000	11628	4300	4500	6000	1000	42275

Note: Dimensions may vary depending on technological advancements.



ATMOSPHERIC (OPEN-AIR) PRESSURE UP TO 300°C

- The thermal oil used as the heat carrier within the system does not leave any residue, does not cause corrosion, and prevents the formation of scale (kalk).
- No conditioning is required for thermal oil.
- Under normal climatic conditions, freezing does not occur in the system during winter.
- The desired temperature can be adjusted up to 300°C.
- In addition to its use at high temperatures, hot oil can also be used for producing steam, hot water, and superheated water when necessary.



GENERAL AREAS OF USE

These systems are widely preferred in large industrial facilities, energy production systems, the chemical and petrochemical industry, paper and textile sectors, and food processing plants.



EFFICIENCY

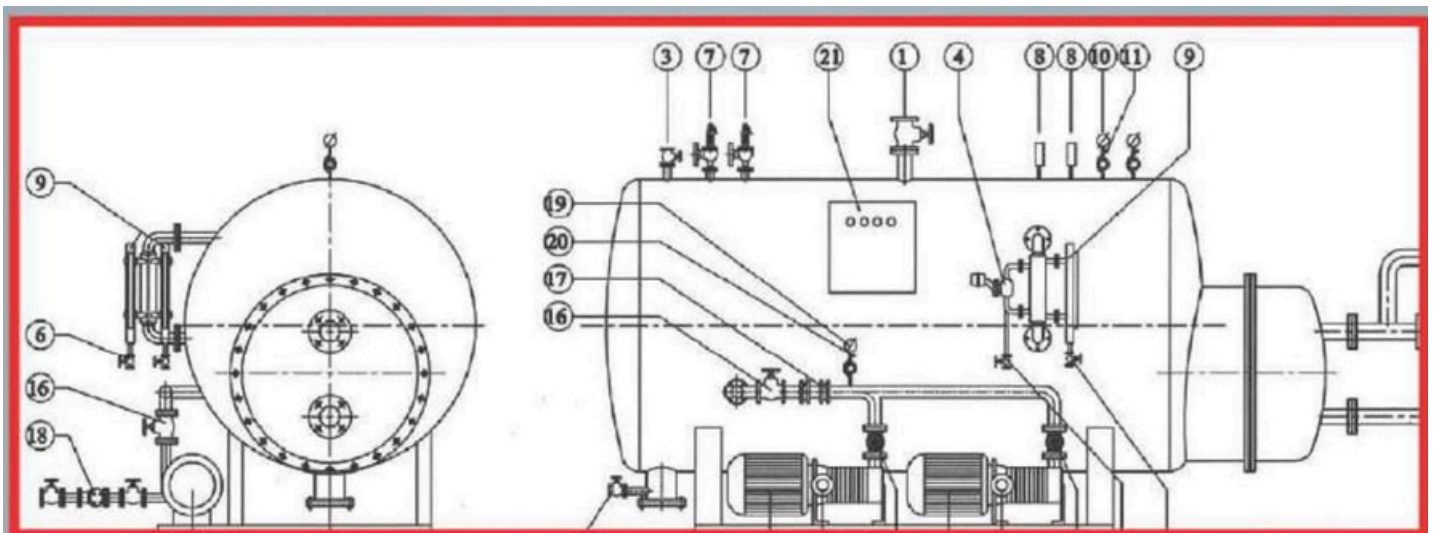
It offers high heat transfer efficiency.

INDIRECT STEAM GENERATORS



Parts List

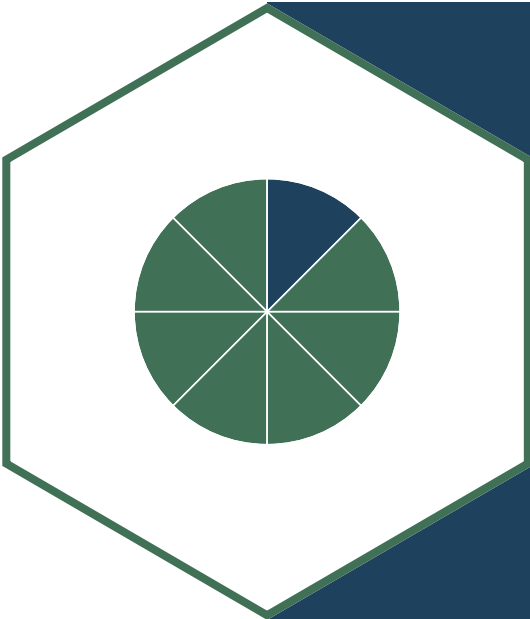
- | | |
|------------------------------------|----------------------------|
| 1. Main steam valve | 11. Motorized valve |
| 2. Drain valve | 12. Steam feed pump motors |
| 3. Ventilation | 13. Feed pumps |
| 4. Blow-off device | 14. Suction line |
| 5. Level indicator blow-off valve | 15. Check valve |
| 6. Safety valve | 16. Dirt trap |
| 7. Pressure switch | 17. Manometer |
| 8. Level indicator (magnetic, Rex) | 18. Manometer valve |
| 9. Manometer (Ø 100, 2 pieces) | 19. Electrical panel |
| 10. Manometer siphon and valve | |





SUPERHEATED OIL FOR INDIRECT STEAM PRODUCTION

Since the thermal oil temperature can be raised up to 300°C, it is possible to produce saturated steam, hot water, and hot air up to 20 bar pressure.



GENERAL AREAS OF USE

Especially in locations where installing large water volume, fire-tube boilers is problematic, selecting an appropriately sized thermal oil boiler allows for both the use of thermal oil in the process and the production of steam at the required capacity.



DIMENSIONS ARE DETERMINED BASED ON SPECIFIC REQUESTS AND REQUIREMENTS

If both thermal oil and steam are used within the same facility, indirect steam generation can still be utilized for steam production.

CLASSIC THERMAL DEAERATOR



General Description:

A deaerator is a tank system used to separate oxygen (O_2) and carbon dioxide (CO_2) gases present in the steam boiler feedwater, which can cause corrosion in the system.

If these gases are not removed from the feedwater, the lifespan of the system shortens, and pinholes and corrosion may occur in all connected pipelines and equipment. Specifically, CO_2 gas can cause excessive corrosion in steam-utilizing devices, heat exchangers, and condensate pipes. Therefore, deaerator devices must be used to remove O_2 and CO_2 gases from boiler feedwater. CO_2 gas evaporates at $60^\circ C$, while oxygen separates from water at temperatures above $100^\circ C$.

Feedwater Temperature and System Requirements:

To prevent evaporation and cavitation in the feedwater pump suction, the water level in the deaerator should be at least 6 meters above the pump suction inlet. This corresponds to a boiler room height of 10 meters. However, this increases the construction cost of the boiler room and adds extra expenses for steel structures. Therefore, it is essential to determine the most appropriate solution in practice.

Dissolved free oxygen (O_2) and carbon dioxide (CO_2) gases in the steam boiler feedwater cause damage to the metal surfaces of the boiler and steam system. (See Figures 1 and 2).



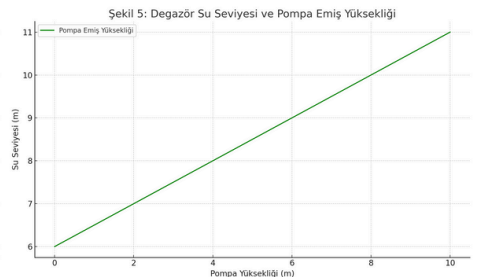
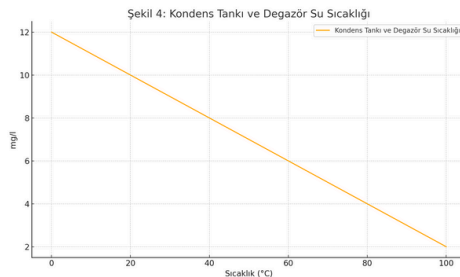
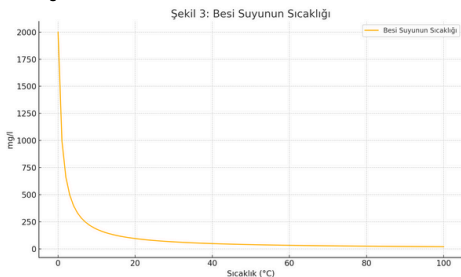
Figure 1

Oxygen Corrosion: Typical signs of corrosion caused by O_2 on the water side of the boiler tubes include lenticular pitting corrosion.



Figure 2

Carbon Dioxide Corrosion: Cracks occurring in the condensate pipes are typical signs of corrosion caused by CO_2 (carbon dioxide). Additionally, grooves formed by O_2 corrosion are also commonly observed.

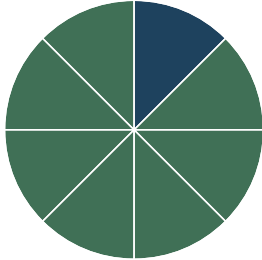




REMOVAL OF CORROSIVE GASES

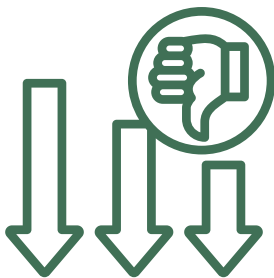
To eliminate these corrosive gases from the feedwater, the water is broken down into fine droplets and heated with steam. As a result, CO₂ evaporates at around 60°C, and O₂ separates at temperatures above 100°C. (See Figures 3 and 4)

In a classic thermal deaerator system, the process of breaking the feedwater into fine droplets is carried out using a sprinkler (rainfall) system, which maximizes surface area and enhances gas release efficiency.



GENERAL AREAS OF USE

Thermal deaerators are a critical component in industrial facilities, used to extend the lifespan of boiler systems and increase energy efficiency.



DISADVANTAGES

One of the main drawbacks of this system is the requirement that the water level in the deaerator must be at least 6 meters above the feedwater pump's suction inlet to prevent evaporation and cavitation. (See Figure 5)

To meet this condition, the boiler room height must be at least 10 meters, which unnecessarily increases construction costs.

Additionally, there are extra expenses associated with the construction and steel structures needed to suspend or elevate the system.

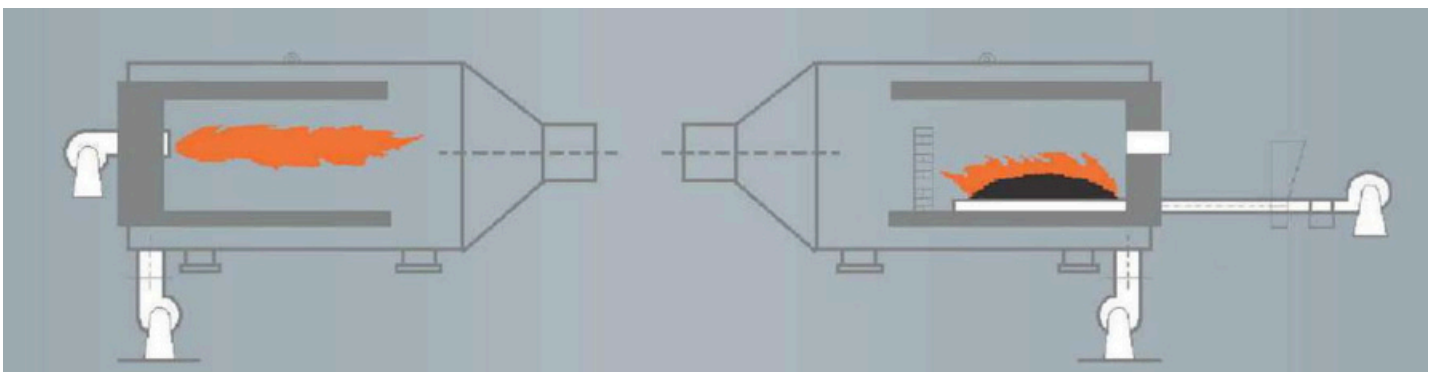
SOLID, LIQUID, AND GAS-FIRED HIGH-TEMPERATURE GAS GENERATORS



General Description:

These systems produce high-temperature gas by burning gas, fuel oil, diesel, coal, or combustible industrial waste. The hot flue gases generated during combustion are mixed with air to achieve the desired gas temperature. Capable of producing hot gases up to 800°C, these systems offer ideal solutions for various industrial applications requiring high-temperature air or gases.

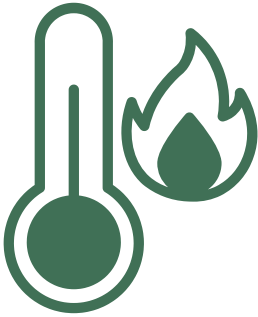
- Thermal Capacity: 500,000 kcal/h – 3,000,000 kcal/h
- Fuel Types: Gas, fuel oil, diesel, coal, and combustible industrial waste
- Maximum Operating Temperature: Up to 800°C



System Diagram for Hot Gas Generation Using Natural Gas / LPG / Fuel Oil / Diesel

System Diagram for Hot Gas Generation by Burning Pulverized Coal, Lump Coal, and Other Combustible Industrial Waste

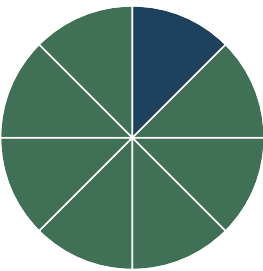
Notes: The dimensions of hot gas generators vary depending on the type of fuel to be burned.



HIGH-TEMPERATURE GAS GENERATION

By burning combustible materials such as gas, fuel oil, diesel, coal, and other industrial waste, hot flue gases are produced and mixed with air to generate gas at the desired temperature. These systems can produce hot gas up to 800°C.

They are manufactured in various capacities ranging from 500,000 kcal/h to 3,000,000 kcal/h.



GENERAL AREAS OF USE

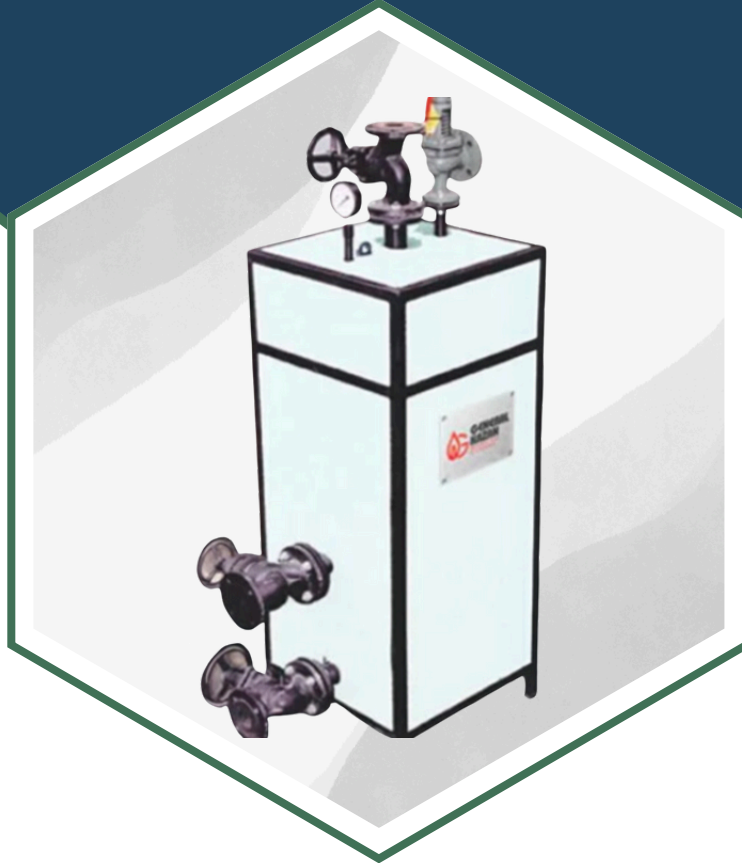
- Drying of building materials such as bricks, briquettes, tiles, and similar elements
- Drying of ceramic products
- Drying of mineral shale, fireclay, and other granular materials
- Manufacturing of insulation materials
- Synthetic fertilizer production
- Drying of lumber, paper, and similar products
- Drying of soft materials like wool and cotton
- Drying of powdered detergents and similar powdered or granular chemical products
- Drying of painted products
- Drying of pulverized coal and charcoal dust
- Drying of food products such as table salt, milk powder, and similar items



EFFICIENCY

Our products deliver maximum performance with minimum energy consumption, helping your operations build a sustainable future.

HEAT RECOVERY SYSTEMS FROM FLASH STEAM IN OPEN-TO-ATMOSPHERE CONDENSATE SYSTEMS

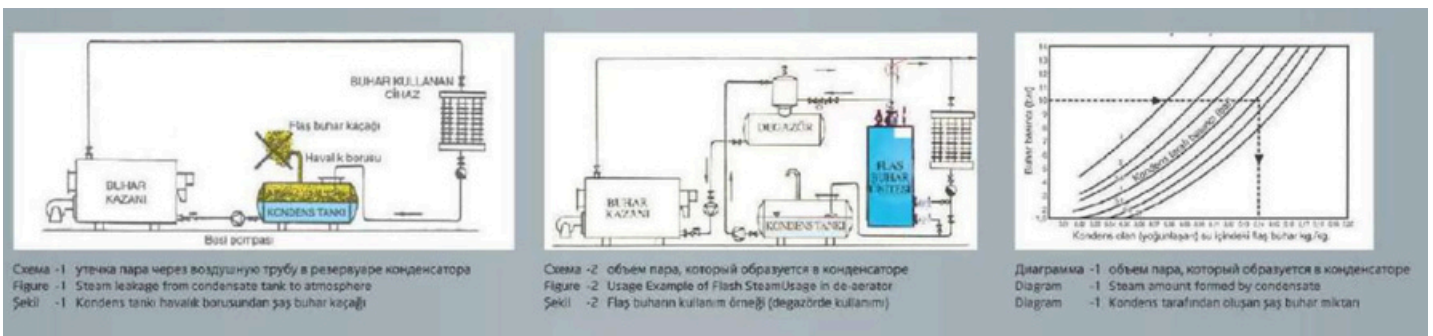


General Description:

In a steam boiler operating at a specific pressure, the steam delivers its latent heat at the point of use and condenses into liquid. This condensate passes through the steam trap and is directed to the condensate tank. However, due to the sudden pressure drop, part of this condensate instantly turns into flash steam, which escapes to the atmosphere through the tank's vent line. If the steam traps are incorrectly selected or malfunctioning, the amount of steam loss increases significantly.

In facilities with a steam production capacity of 1,000 kg/h or more, recovering flash steam escaping from open-to-atmosphere condensate tanks can yield 5–15% fuel savings.

These systems not only enhance energy efficiency by recovering heat that would otherwise be wasted but also provide significant reductions in operating costs.



System Operation:

1. Steam Release: Steam is released from the condensate reservoir to the atmosphere.
2. Heat Loss: As the steam travels through the piping, it loses its latent heat during the condensation process.
3. Condensate Discharge: The resulting condensate (water) is discharged into the atmosphere, leading to both heat and water loss.

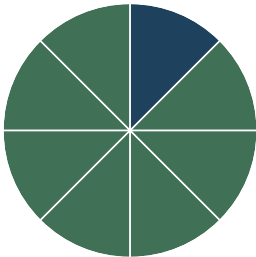


WHITE STEAM CLOUD

In many facilities using steam, the white cloud of steam rising beside the boiler room is often seen as a normal occurrence. However, this is a clear sign of energy loss. If proper measures are not taken, 10–15% of the produced steam—and therefore the fuel used to generate it—is lost to the atmosphere.

SOLUTION: ECO-FLASH STEAM UNIT (TYPE G-FC)

- In industrial facilities, flash steam is separated before the condensate enters the tank and is returned to the boiler system using the Eco-Flash Steam Unit.
- Advantages of the System:
- Prevents steam losses by recovering flash steam before it escapes.
- Reduces water and fuel consumption, lowering operational costs.
- Increases energy efficiency by utilizing the otherwise wasted latent heat.



GENERAL AREAS OF USE

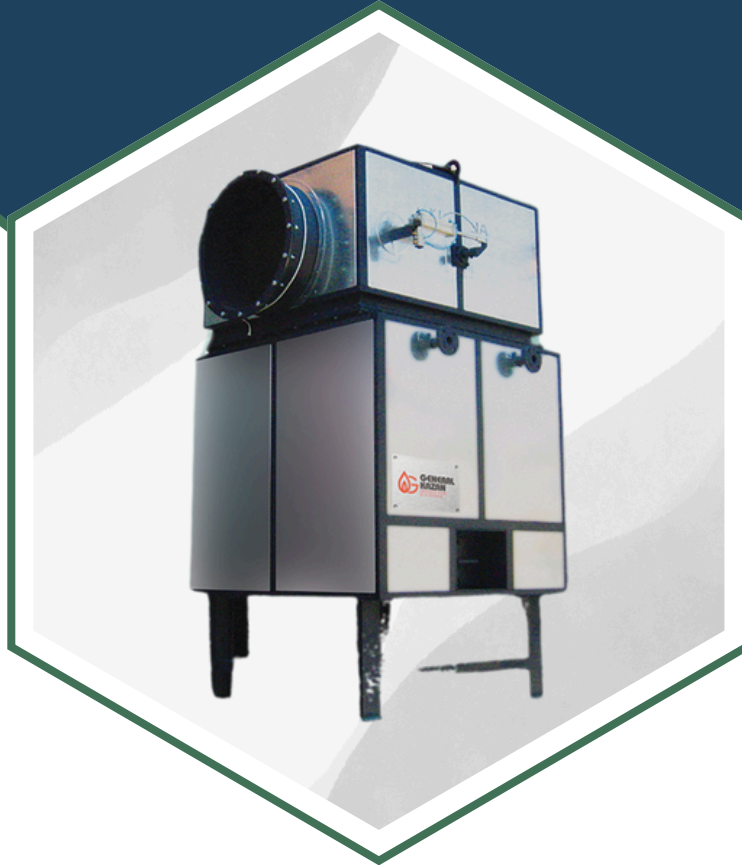
Widely applied in steam-utilizing industrial facilities, including the textile industry, washing and drying plants, and other sectors where steam systems are in use.



EFFICIENCY

This system is specifically designed to efficiently manage heat recovery from steam escaping into open environments. As a result, energy losses are minimized, while operational sustainability is maximized.

ECONOMIZER



HEAT RECOVERY DEVICES FROM FLUE GAS DISCHARGE

Recovery Systems for Hot Flue Gases in Steam, Superheated Water, Hot Water, and Thermal Oil Boilers

The heat from hot flue gases discharged through the chimney can be recovered and utilized in various applications such as:

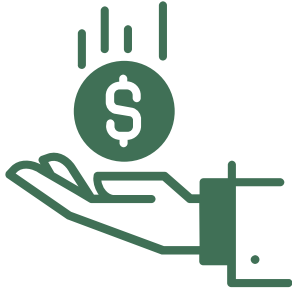
- Heating boiler feedwater
- Preheating process hot water
- Generating hot water for cleaning purposes
- Assisting in steam production

By making use of this waste heat, energy efficiency is increased, fuel consumption is reduced, and overall system performance is improved.

Energy Savings	Heat Transfer Efficiency	Application Areas	Material Structure	Operating Temperature	Fuel Type Compatibility	Easy Installation and Maintenance	Payback Period	Eco-Friendly	Optional Features
Heat recovery from boiler flue gases reduces fuel consumption by 2-5%, making the system more efficient and cost-effective.	By increasing the temperature of the feedwater, the economizer enhances overall boiler efficiency, reducing the energy required to reach operating conditions.	Can be used with steam boilers, hot water boilers, and thermal oil systems.	Manufactured from corrosion-resistant stainless steel or carbon steel, ensuring durability and long service life.	Can operate within the range of 50°C to 350°C, depending on the flue gas temperature.	Compatible with systems operating on natural gas, liquid fuels, and coal.	Thanks to its compact design, it offers easy installation and low maintenance costs.	The investment cost is typically recovered within 6 to 12 months.	Reduces carbon emissions and provides environmentally conscious heat recovery, contributing to a greener and more sustainable operation.	Available in both condensing and non-condensing versions.

System Operation:

1. **Steam Release:** Steam is released from the condenser reservoir into the atmosphere.
2. **Heat Loss:** As the steam travels through the pipes, it loses its latent heat during the condensation process.
3. **Condensate Discharge:** The resulting condensate (water) is discharged into the atmosphere, leading to both heat and water loss.



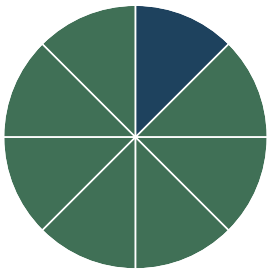
SAVINGS

In steam boilers using liquid fuel or natural gas, the temperature of the flue gas exiting the boiler and heading to the chimney can range between +50°C to 100°C above the steam temperature, depending on the boiler's design.

For example:

- In a steam boiler producing steam at 6 bar, the steam temperature is 164°C, while the flue gas temperature can reach 264°C.
- In a 12 bar steam boiler, the flue gas temperature may rise to approximately 300°C.
- In thermal oil boilers, the heating gas temperature can reach 350°C.

However, specially designed economizer systems, engineered to prevent corrosion from condensation, can reduce flue gas temperatures down to 50°C. This heat recovery system provides up to 5% fuel savings, offering both economic and environmental benefits.



GENERAL AREAS OF USE

- Residential Buildings: For heating and hot water production
- Industrial Facilities: Hot water and steam generation for industrial processes
- Hotels and Hospitals: For central heating systems and hygienic hot water needs
- Food Industry: In food processing, sterilization, and drying operations
- Textile Industry: For fabric washing, dyeing, and drying processes
- Paper and Pulp Production: In steam-reliant manufacturing stages
- Chemical Industry: For process heating and steam usage
- Power Plants: For auxiliary steam generation
- Agriculture and Greenhouses: For heating and CO₂ fertilization
- Petrochemical Plants: In crude oil processing and other petrochemical operations
- Pharmaceutical Industry: For sterilization and steam use in production
- Automotive Industry: In paint drying and coating applications
- Leather and Footwear Production: For drying and shaping processes



EFFICIENCY

The economizer device improves energy savings by creating a heat exchange between the inlet water and the flue gas, thereby increasing heat recovery efficiency and reducing overall fuel consumption.

SOME OF OUR REFERENCES



- **Boiler Type:** G-SB 350 × 2 Units Scotch Type Steam Boiler, Boiler Room and Steam Lines
- **Fuel Type:** Natural Gas
- **Year:** 2021
- **Industry:** Textile
- **Phone:** +998 78 120 4800

REAL TEX TASHKENT OOO

→ Tashkent, Uzbekistan



- **Boiler Type:** G-SB 300 × 2 Units Scotch Type Steam Boiler, Boiler Room and Steam Lines
- **Fuel Type:** Natural Gas
- **Year:** 2020
- **Industry:** Textile
- **Phone:** +998 71 207 6665

OOO MS-BARER TEXTILE

→ Tashkent, Uzbekistan



- **Boiler Type:** FLAM BURNER – 10,500 kW LOW NOx Gas Burner
- **Fuel Type:** Natural Gas
- **Year:** 2019
- **Industry:** Food
- **Phone:** +998 78 140 9999

CARLSBERG UZCARLSBERG LLC

→ Tashkent, Uzbekistan



- **Boiler Type:** G-SB 75 Scotch Type Steam Boiler, Boiler Room and Steam Lines
- **Fuel Type:** Natural Gas
- **Year:** 2019
- **Industry:** Construction
- **Phone:** +998 93 388 5811

AKFA HOLDING - GRAND ROAD

→ Tashkent, Uzbekistan

www.greenclimate.com.tr

Note: This catalog includes a limited selection of projects completed by our company. Our full reference list can be shared with relevant individuals and institutions upon request.



- **Boiler Type:** KBJ - 2000
- **Fuel Type:** LPG
- **Year:** 2003
- **Industry:** Hotel
- **Phone:** +90 242 766 46 89

ASKA COSTA HOTEL CLUB

→ Manavgat, Antalya



- **Boiler Type:** KBJ-750
- **Fuel Type:** LPG
- **Year:** 2004
- **Industry:** Hotel
- **Phone:** +90 242 731 10 10

BELEK BEACH RESORT HOTEL

→ Serik, Antalya



- **Boiler Type:** YBJ-600
- **Fuel Type:** LPG
- **Year:** 2004
- **Industry:** Hotel
- **Phone:** +90 242 821 47 80

CLUB HOTEL PHASELISE ROSE

→ Kemer, Antalya



- **Boiler Type:** KBJ-500
- **Fuel Type:** LPG
- **Year:** 2005
- **Industry:** Hotel
- **Phone:** +90 507 359 15 90

CLUB SIDE COAST HOTEL

→ Manavgat, Antalya



- **Boiler Type:** YBJ-1350
- **Fuel Type:** Fuel Oil
- **Year:** 2002
- **Industry:** Hotel
- **Phone:** +90 532 282 52 10

INOVA RESORT HOTEL

→ Belek, Antalya



- **Boiler Type:** KBJ-500
- **Fuel Type:** LPG
- **Year:** 2005
- **Industry:** Hotel
- **Phone:** +90 242 228 77 18

CROWN PLAZA HOTEL

→ Konyaaltı, Antalya



- **Boiler Type:** YBJ-1000
- **Fuel Type:** LPG
- **Year:** 2004
- **Industry:** Hotel
- **Phone:** +90 538 319 46 46

MARMARIS PARK HOTEL

→ Marmaris, Muğla



- **Boiler Type:** KBJ-1500
- **Fuel Type:** LPG
- **Year:** 2008
- **Industry:** Agriculture and Livestock
- **Phone:** +90 554 880 53 53

MAVİ DENİZ

→ Milas, Muğla



- **Boiler Type:** KBJ-300
- **Fuel Type:** LPG
- **Year:** 2003
- **Industry:** Hotel
- **Phone:** +90 252 321 09 30

LETOİLE HOTEL

→ Marmaris, Muğla



- **Boiler Type:** MBÜ-300
- **Fuel Type:** LPG
- **Year:** 2008
- **Industry:** Hotel
- **Phone:** +90 252 321 09 30

LETOİLE HOTEL

→ Marmaris, Muğla



- **Boiler Type:** 1,000,000 HOT WATER (2 Units)
- **Fuel Type:** LPG
- **Year:** 2003
- **Industry:** Hotel
- **Phone:** +90 252 321 09 30

LETOİLE HOTEL

→ Marmaris, Muğla



- **Boiler Type:** MBÜ-500
- **Fuel Type:** Natural Gas
- **Year:** 2011
- **Industry:** Hotel
- **Phone:** +90 232 241 23 00

ONTUR HOTEL

→ Çeşme, İzmir



- **Boiler Type:** KBJ-750
- **Fuel Type:** LPG
- **Year:** 2008
- **Industry:** Hotel
- **Phone:** +90 242 753 54 86

ARMAS PEMAR BEACH

→ Manavgat, Antalya



- **Boiler Type:** YBJ-500
- **Fuel Type:** Fuel Oil
- **Year:** 2000
- **Industry:** Hotel
- **Phone:** +90 242 824 77 55

SAILORS BEACH CLUP

→ Kemer, Antalya



- **Boiler Type:** KBJ-1250
- **Fuel Type:** LPG
- **Year:** 2011
- **Industry:** Hotel
- **Phone:** +90 232 893 10 60

RICMOND HOTEL

→ Efes, İzmir



- **Boiler Type:** YBJ-750
- **Fuel Type:** LPG
- **Year:** 2004
- **Industry:** Hotel
- **Phone:** +90 252 756 91 00

SARAY REGENCY HOTEL

→ Manavgat, Antalya



- **Boiler Type:** SB 2450
- **Fuel Type:** LPG
- **Year:** 2003
- **Industry:** Laundry
- **Phone:** +90 242 515 15 25

CIVIT LAUNDRY

→ Alanya, Antalya



- **Boiler Type:** SB 1900
- **Fuel Type:** LPG
- **Year:** 2004
- **Industry:** Laundry
- **Phone:** +90 242 515 15 25

CIVIT LAUNDRY

→ Alanya, Antalya



- **Boiler Type:** KBJ-1000
- **Fuel Type:** LPG
- **Year:** 2004
- **Industry:** Hotel
- **Phone:** +90 242 512 42 66

CLUB SIDAR

→ Alanya, Antalya



- **Boiler Type:** KBJ 2000
- **Fuel Type:** Fuel Oil
- **Year:** 2001
- **Industry:** Hotel
- **Phone:** +90 242 710 20 00

RIXOS BELEK

→ Belek, Antalya



- **Boiler Type:** KBJ-2000
- **Fuel Type:** Fuel Oil
- **Year:** 2004
- **Industry:** Hotel
- **Phone:** +90 242 821 40 32

RIXOS TEKIROVA

→ Tekirova, Antalya



- **Boiler Type:** MBÜ-500
- **Fuel Type:** LPG
- **Year:** 2006
- **Industry:** Hotel
- **Phone:** +90 242 731 08 70

AYDIN BEY FAMOUS HOTEL

→ Serik, Antalya



- **Boiler Type:** KBJ-1000
- **Fuel Type:** LPG
- **Year:** 2007
- **Industry:** Hotel
- **Phone:** +90 242 715 29 00

LEGONYA GARDEN HOTEL

→ Serik, Antalya



- **Boiler Type:** KBJ-1000
- **Fuel Type:** Fuel Oil
- **Year:** 2003
- **Industry:** Hotel
- **Phone:** +90 242 814 31 00

KEMER RESORT HOTEL

→ Kemer, Antalya



- **Boiler Type:** KBJ-1000
- **Fuel Type:** Fuel Oil
- **Year:** 2004
- **Industry:** Hotel
- **Phone:** +90 242 824 52 22

LE JARDIN HOTEL

→ Kemer, Antalya



- **Boiler Type:** G-SB 75 Scotch Type Steam Boiler, Boiler Room, and Steam Lines
- **Fuel Type:** Natural Gas
- **Year:** 2019
- **Industry:** Textile
- **Phone:** +998 998 578 000

VINTAGE DENIM

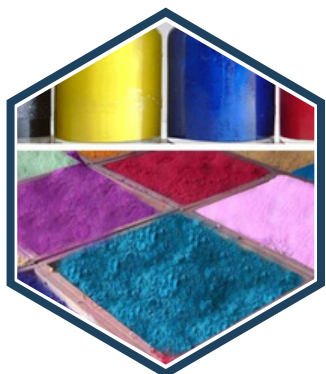
→ Olmaliq, Uzbekistan



- **Boiler Type:** GSG 2000 Compact Steam Generator and Boiler Room
- **Fuel Type:** Natural Gas
- **Year:** 2019
- **Industry:** Food
- **Phone:** +998 78 150 3027

PROGUM TICARET OOO

→ Taşkent, Uzbekistan



- **Boiler Type:** GSG 1000 Compact Steam Generator and Boiler Room
- **Fuel Type:** Natural Gas
- **Year:** 2016
- **Industry:** Textile Chemicals
- **Phone:** +90 532 509 42 42

MEGA COLOR IMPEKS

→ Taşkent, Uzbekistan



- **Boiler Type:** G-SB 75 Scotch Type Steam Boiler, Boiler Room, and Steam Lines
- **Fuel Type:** Natural Gas
- **Year:** 2016
- **Industry:** Textile
- **Phone:** +998 97 704 43 78

LOTUS TEXTILE

→ Taşkent, Uzbekistan



- **Boiler Type:** HWB 1500 Hot Water Boiler
- **Fuel Type:** Natural Gas
- **Year:** 2017
- **Industry:** Chemical
- **Phone:** +90 532 282 52 10

TOP SMART LINE

→ Taşkent, Uzbekistan



- **Boiler Type:** MBÜ 500
- **Fuel Type:** Natural Gas
- **Year:** 2012
- **Industry:** Chemical Industry
- **Phone:** +90 312 815 50 10

OZDEN CHEMICAL

→ Ankara, Türkiye



- **Boiler Type:** MBÜ 500
- **Fuel Type:** Natural Gas
- **Year:** 2012
- **Industry:** Textile
- **Phone:** +90 212 520 70 34

GUNES TEXTILE

→ İstanbul, Türkiye



- **Boiler Type:** KJB 1000
- **Fuel Type:** Natural Gas
- **Year:** 2012
- **Industry:** Laundry
- **Phone:** +90 216 581 42 00

GİSBİR EN GRUP

→ İstanbul, Türkiye



- **Boiler Type:** KBJ 750
- **Fuel Type:** Natural Gas
- **Year:** 2012
- **Industry:** Tourism
- **Phone:** +90 414 314 29 00

ABIDE PARK

→ Şanlıurfa, Turkey



- **Boiler Type:** MBÜ 500
- **Fuel Type:** Natural Gas
- **Year:** 2012
- **Industry:** Textile
- **Phone:** +90 212 875 29 09

SABY SOCKS

→ İstanbul, Turkey



- **Boiler Type:** MBÜ 50
- **Fuel Type:** Natural Gas
- **Year:** 2013
- **Industry:** Food
- **Phone:** +90 322 433 47 04

KALENDER

→ Adana, Turkey



- **Boiler Type:** EBÜ 50
- **Fuel Type:** Electric
- **Year:** 2013
- **Industry:** Textile
- **Phone:** +90 344 223 13 87

BOZKURT MANUFACTURING

→ Kahramanmaraş, Turkey



- **Boiler Type:** MBÜ 300
- **Fuel Type:** Natural Gas
- **Year:** 2013
- **Industry:** Food
- **Phone:** +90 348 834 10 80

ŞEKEROĞLU SPICES

→ Kilis, Turkey



- **Boiler Type:** KBJ 2000
- **Fuel Type:** Natural Gas
- **Year:** 2013
- **Industry:** Metal
- **Phone:** +90 264 654 59 12

AKPA ALUMINUM

→ Sakarya, Turkey



- **Boiler Type:** MBÜ 500
- **Fuel Type:** Natural Gas
- **Year:** 2014
- **Industry:** Textile
- **Phone:** +90 332 238 88 22

AYMISS KNITWEAR

→ Konya, Turkey



- **Boiler Type:** KBJ 1000
- **Fuel Type:** Natural Gas
- **Year:** 2014
- **Industry:** Packaging
- **Phone:** +90 212 594 94 35

GÜRSA CORRUGATED CARDBOARD

→ İstanbul, Turkey



- **Boiler Type:** MBÜ 200
- **Fuel Type:** Natural Gas
- **Year:** 2014
- **Industry:** Food
- **Phone:** +90 312 815 20 36

DOMINO'S PIZZA

→ Ankara, Turkey



- **Boiler Type:** KBJ 1000
- **Fuel Type:** Natural Gas
- **Year:** 2014
- **Industry:** Environmental Technology
- **Phone:** +90 364 254 98 26

TAC MACHINERY

→ Çorum, Turkey



- **Boiler Type:** KYK 2000
- **Fuel Type:** Natural Gas
- **Year:** 2014
- **Industry:** Energy
- **Phone:** +90 216 394 90 54

RANTEKO

→ İstanbul, Turkey



- **Boiler Type:** KBJ 750
- **Fuel Type:** Natural Gas
- **Year:** 2014
- **Industry:** Healthcare
- **Phone:** +90 216 634 01 02

ERDEM HOSPITAL

→ İstanbul, Turkey



- **Boiler Type:** KBJ 750
- **Fuel Type:** Natural Gas
- **Year:** 2015
- **Industry:** Healthcare
- **Phone:** +90 212 665 50 50

AVRASYA HOSPITAL

→ İstanbul, Turkey



- **Boiler Type:** KBJ 1000
- **Fuel Type:** Natural Gas
- **Year:** 2015
- **Industry:** Food
- **Phone:** +90 212 640 40 35

MD FERSAH FOOD

→ İstanbul, Turkey



- **Boiler Type:** KBJ 2500
- **Fuel Type:** Natural Gas
- **Year:** 2015
- **Industry:** Textile
- **Phone:** +90 212 602 03 56

BTEKS

→ İstanbul, Turkey



- **Boiler Type:** KBJ 1500
- **Fuel Type:** Natural Gas
- **Year:** 2015
- **Industry:** Food
- **Phone:** +90 324 676 46 20

NADA FOOD

→ Mersin, Turkey



- **Boiler Type:** KBJ 1000
- **Fuel Type:** Natural Gas
- **Year:** 2015
- **Industry:** Textile
- **Phone:** +90 312 386 22 22

ETİLEN LAUNDRY

→ Ankara, Turkey



- **Boiler Type:** KBJ 1000
- **Fuel Type:** Natural Gas
- **Year:** 2015
- **Industry:** Food
- **Phone:** +90 232 799 02 77

YEDİTEPE ORGANİK

→ İzmir, Turkey



- **Boiler Type:** MBÜ 200
- **Fuel Type:** Natural Gas
- **Year:** 2015
- **Industry:** Cosmetics
- **Phone:** +90 216 371 32 00

AEROFA

→ Kartepe, Kocaeli



- **Boiler Type:** KBJ 750
- **Fuel Type:** Natural Gas
- **Year:** 2015
- **Industry:** Textile
- **Phone:** +90 370 447 64 00

KARGISAN INC.

→ Karabük, Turkey



- **Boiler Type:** KBJ 1500
- **Fuel Type:** Natural Gas
- **Year:** 2015
- **Industry:** Chemical
- **Phone:** +90 212 465 06 66

SULFERT

→ İstanbul, Turkey



- **Boiler Type:** SB 40
- **Fuel Type:** Natural Gas
- **Year:** 2015
- **Industry:** Machinery
- **Phone:** +90 332 239 12 45

OR - TAŞ

→ Konya, Turkey



- **Boiler Type:** G-CSG 200 Compact Steam Generator
- **Fuel Type:** Natural Gas
- **Year:** 2017
- **Industry:** Energy
- **Phone:** +90 532 296 87 04

PROCAB CABLE

→ Tashkent, Uzbekistan



- **Boiler Type:** G-CSG 1000 Compact Steam Generator
- **Fuel Type:** Natural Gas
- **Year:** 2016
- **Industry:** Textile
- **Phone:** +998 71 253 95 28

SEDAT TEXTILE

→ Tashkent, Uzbekistan



- **Boiler Type:** G-SB 125 Scotch Type Steam Boiler and Boiler Room
- **Fuel Type:** Natural Gas
- **Year:** 2016
- **Industry:** Food
- **Phone:** +994 55 683 55 55

IKAR S MMC

→ Baku, Azerbaijan



- **Boiler Type:** G-SB 150 Scotch Type Steam Boiler and Boiler Room
- **Fuel Type:** Natural Gas
- **Year:** 2019
- **Industry:** Chemical
- **Phone:** +994 50 211 85 39

PROCONS

→ Baku, Azerbaijan



- **Boiler Type:** G-SB 250 Scotch Type Steam Boiler and Boiler Room
- **Fuel Type:** Natural Gas
- **Year:** 2019
- **Industry:** Chemical
- **Phone:** +994 50 211 85 39

PROCONS

→ Baku, Azerbaijan



- **Boiler Type:** 2 Units of G-HWB 4300 Hot Water Boiler
- **Fuel Type:** Natural Gas / Diesel
- **Year:** 2016
- **Industry:** Military Heating Facility
- **Phone:** +995 577 450 345

GORI MILITARY

→ Gori, Georgia



- **Boiler Type:** G-FWTSG 2500 Compact Steam Generator and Boiler Room
- **Fuel Type:** Natural Gas
- **Year:** 2016
- **Industry:** Corrugated Cardboard Production
- **Phone:** +90 535 317 07 84

3E HEATING LLC

→ Tbilisi, Georgia



- **Boiler Type:** 10 Units of G-HWB 1000 Hot Water Boiler
- **Fuel Type:** Natural Gas
- **Year:** 2016
- **Industry:** School Heating System
- **Phone:** +993 63 004 005

TURKMEN

→ Turkmenistan



- **Boiler Type:** G-SB 150 Scotch Type Steam Boiler and Boiler Room
- **Fuel Type:** Natural Gas
- **Year:** 2019
- **Industry:** Corrugated Cardboard Production
- **Phone:** +90 533 353 42 94

ILERI MACHINERY

→ Turkmenistan



- **Boiler Type:** G-SB 150 Scotch Type Steam Boiler and Boiler Room
- **Fuel Type:** Natural Gas
- **Year:** 2018
- **Industry:** Corrugated Cardboard Production
- **Phone:** +90 533 353 42 94

ILERI MACHINERY

→ Algeria



- **Boiler Type:** G-CSG 1500 Compact Steam Generator
- **Fuel Type:** Diesel
- **Year:** 2017
- **Industry:** Food / Dairy Production Factory
- **Phone:** +90 533 353 42 94

STK MACHINERY

→ Sudan



- **Boiler Type:** G-CSG 500 Compact Steam Generator
- **Fuel Type:** Diesel
- **Year:** 2017
- **Industry:** Food / Dairy Production Factory
- **Phone:** +90 533 353 42 94

STK MACHINERY

→ Iraq



- **Boiler Type:** G-TOB 600 Thermal Oil Boiler
- **Fuel Type:** Diesel
- **Year:** 2016
- **Industry:** Meat Factory / Food
- **Phone:** +90 533 484 25 55

LNU SANAYI MACHINERY

→ Sudan



- **Boiler Type:** G-CSG 500 Compact Steam Generator
- **Fuel Type:** Diesel
- **Year:** 2019
- **Industry:** Textile
- **Phone:** +90 532 213 05 15

SUPER TEXTILE

→ Ethiopia



- **Boiler Type:** 2 Units of G-CSG 2000 Compact Steam Generator
- **Fuel Type:** Natural Gas
- **Year:** 2017
- **Industry:** Dairy Factory / Food
- **Phone:** +90 532 314 43 66

REHA POLAND SP ZOO

→ Poland



- **Boiler Type:** G-CSG 500 Compact Steam Generator
- **Fuel Type:** Natural Gas
- **Year:** 2016
- **Industry:** Automotive
- **Phone:** +36 42 551 200

VIBRACOSTIC

→ Hungary



- **Boiler Type:** G-CSG 500 Compact Steam Generator
- **Fuel Type:** Natural Gas
- **Year:** 2016
- **Industry:** Textile
- **Phone:** +90 212 654 96 91

CCM TEXTILE MODA 000

→ Serbia



- **Boiler Type:** G-CSG 1000 Compact Steam Generator
- **Fuel Type:** Natural Gas
- **Year:** 2016
- **Industry:** Food
- **Phone:** +171 4401 6160

TAC MACHINERY

→ ABD



- **Boiler Type:** G-SB 100 Scotch Type Steam Boiler, Economizer, and Boiler Room
- **Fuel Type:** Natural Gas
- **Year:** 2016
- **Industry:** Food
- **Phone:** +90 850 279 37 00

PEPSICO

→ Adana, Turkey



- **Boiler Type:** 3 Units of G-SB 90 Scotch Type Steam Boiler, Deaerator, and Boiler Room Automation
- **Fuel Type:** Fuel Oil
- **Year:** 2016
- **Industry:** Cement Factory
- **Phone:** +90 324 744 40 00

EREN HOLDING-MEDCEM CEMENTRY

→ Mersin, Turkey



- **Boiler Type:** G-SB 250 Scotch Type Steam Boiler, Deaerator, and Boiler Room Automation
- **Fuel Type:** Natural Gas
- **Year:** 2016
- **Industry:** Central Heating Facility
- **Phone:** +90 284 236 49 81

TRAKYA UNIVERSITY

→ Tekirdağ, Turkey



- **Boiler Type:** G-FWTSG 2500 Compact Steam Generator, Boiler Room, and Boiler Room Automation
- **Fuel Type:** Natural Gas
- **Year:** 2017
- **Industry:** Cable Factory
- **Phone:** +90 262 722 93 30

UNTEL CABLE

→ Kocaeli, Turkey



- **Boiler Type:** G-CSG 2500 Compact Steam Generator
- **Fuel Type:** Natural Gas
- **Year:** 2018
- **Industry:** Cement Chemicals
- **Phone:** +90 216 581 06 00

SİKA

→ Tuzla-İstanbul, Turkey



- **Boiler Type:** G-CSG 2000 Compact Steam Generator
- **Fuel Type:** Natural Gas
- **Year:** 2016
- **Industry:** Chemical
- **Phone:** +90 322 441 04 82

AGAKİM

→ Adana, Turkey



- **Boiler Type:** G-SB 250 Scotch Type Steam Boiler, Deaerator, and Boiler Room Automation
- **Fuel Type:** Coal
- **Year:** 2016
- **Industry:** Dairy Factory / Food
- **Phone:** +90 533 250 52 39

ANKARA MILK FEDERATION

→ Gölbaşı-Ankara, Turkey



- **Boiler Type:** G-CSG 2000 Compact Steam Generator
- **Fuel Type:** Natural Gas
- **Year:** 2018
- **Industry:** Textile
- **Phone:** +90 264 517 67 12

UGUR BALKUV KNITWEAR

→ Sakarya, Turkey



- **Boiler Type:** G-CSG 3000 Compact Steam Generator, Boiler Room, Deaerator, and Automation
- **Fuel Type:** Natural Gas
- **Year:** 2016
- **Industry:** Laundry
- **Phone:** +90 216 394 06 17

PAK LAUNDRY

→ Tuzla, İstanbul



- **Boiler Type:** G-FWTSG 2500 Compact Steam Generator and Boiler Room
- **Fuel Type:** Natural Gas
- **Year:** 2016
- **Industry:** Laundry
- **Phone:** +90 212 771 35 35

YİĞİTALP LAUNDRY

→ Hadımköy-İstanbul, Turkey



- **Boiler Type:** G-SB 100 Scotch Type Steam Boiler and Boiler Room
- **Fuel Type:** Natural Gas
- **Year:** 2016
- **Industry:** Feed, Food
- **Phone:** +90 256 259 13 33

AGROMEY

→ Torbalı, İzmir



- **Boiler Type:** 2 Units of G-CSG 2000 (6 bar Operating Pressure)
- **Fuel Type:** Natural Gas
- **Year:** 2023
- **Industry:** Chemical
- **Phone:** +90 262 648 50 01

DIVERSEY CHEMICAL INDUSTRY AND TRADE INC.

→ Gebze, Kocaeli

SALES AND AFTER-SALES SERVICES



INSTALLATION AND COMMISSIONING

Each product manufactured by our company undergoes a thorough installation and commissioning process to ensure smooth and efficient operation. Our expert technical teams carry out the installation and startup phases professionally.

The installation process includes the following steps:



1.DELIVERY AND PREPARATION:

- Safe delivery of the products to the customer's site.
- Completion of necessary infrastructure preparations at the site prior to installation.



2. INSTALLATION:

- Assembly and installation of system components on-site.
- Installation of piping systems, connection elements, and auxiliary equipment.



3. ELECTRICAL AND AUTOMATION CONNECTIONS:

- Establishing electrical connections and integrating the system with automation units.
- Proper placement of control panels and sensors.



4. COMMISSIONING AND TESTING PROCESS:

- Performing operational checks of the systems
- Adjusting necessary parameters such as pressure, temperature, and others
- Conducting comprehensive tests to ensure the system operates smoothly at full capacity

The installation and commissioning process is designed to ensure that our customers can begin using our products as quickly and efficiently as possible.

PERIODIC MAINTENANCE AND TECHNICAL SERVICE SUPPORT

Our company prioritizes customer satisfaction in after-sales services and provides comprehensive maintenance and technical support to ensure long-lasting and efficient operation of our products.

Our periodic maintenance and technical service offerings include the following:



Periodic Maintenance Service:

- Regular maintenance is performed to maintain product performance and minimize the risk of failures.
- Key components inspected include:
 - Combustion systems and burners
 - Electrical and automation units
 - Piping systems, valves, and pumps
- Cleaning, lubrication, and operational condition checks of critical parts



Technical Support in Case of Malfunctions:

- 24/7 technical service support is provided for rapid response in emergencies.
- When on-site intervention is required, our expert teams are dispatched promptly.
- Necessary spare parts are supplied quickly to minimize downtime.



Remote Monitoring and Support:

- Products integrated with automation systems are remotely monitored to detect potential issues in advance.
- Customized software solutions and adjustments can be implemented based on the customer's preferences.



Training and Consultancy:

- We provide training to our customers to ensure cost-effective and efficient use of the systems.
- Detailed guidance is given to operational staff to ensure the system is used correctly and safely.

ADVANTAGES OF SALES AND AFTER-SALES SERVICES

Our company's after-sales services are designed to meet customer needs quickly and efficiently.

By prioritizing customer satisfaction and trust, we consistently deliver high-quality support at all times.



Fuel Savings:

- With regular maintenance and proper usage, the risk of malfunctions is reduced, helping to prevent unnecessary expenses and optimize fuel consumption.



Increased Efficiency:

- Ensures that systems operate at their highest performance levels.



Extended Service Life:

- Regular maintenance significantly prolongs the operational lifespan of the equipment.



Uninterrupted Operation:

- With reliable technical support, production processes continue smoothly without interruptions.







CHOOSE US FOR SUSTAINABLE ENERGY SOLUTIONS WITH ADVANCED TECHNOLOGY!



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