# STORM ECO SERIES

## HYBRID STEAM BOILERS

# LIQUID / GAS FIRED ELECTRIC ASSISTED 3 PASS SCOTCH TYPE


SMART ENERGY
**HYBRID TECHNOLOGY**

### Steam Production Capacity
500 kg/h - 28.000 kg/h

### Operating Pressure
3-16 Bar

### Thermal Capacity
349 kW - 19.535 kW

### Design Type
Fire-Tube, Scotch Type, Wet-Back, 3 Pass, Electric Assisted

### Primary Fuel Type
LNG, Propane, CNG, Natural Gas, LPG, Biogas, Hydrogen, Diesel, Fuel Oil, Duel Fuel

### Secondary Fuel Type
Electric

## Capacity Table

| Model | Steam Capacity (kg/h) | Thermal Capacity (kW) | Thermal Capacity (kcal/h) | Thermal Capacity (MW) |
|---|---|---|---|---|
| Storm Eco Hybrid | 500 | 300.000 | 349 | 0,35 |
| Storm Eco Hybrid | 700 | 420.000 | 488 | 0,49 |
| Storm Eco Hybrid | 1.000 | 600.000 | 698 | 0,70 |
| Storm Eco Hybrid | 1.250 | 750.000 | 872 | 0,87 |
| Storm Eco Hybrid | 1.500 | 900.000 | 1.047 | 1,05 |
| Storm Eco Hybrid | 2.000 | 1.200.000 | 1.396 | 1,40 |
| Storm Eco Hybrid | 2.500 | 1.500.000 | 1.745 | 1,74 |
| Storm Eco Hybrid | 3.000 | 1.800.000 | 2.093 | 2,09 |
| Storm Eco Hybrid | 3.500 | 2.100.000 | 2.442 | 2,44 |
| Storm Eco Hybrid | 4.000 | 2.400.000 | 2.791 | 2,79 |
| Storm Eco Hybrid | 5.000 | 3.000.000 | 3.489 | 3,49 |
| Storm Eco Hybrid | 6.000 | 3.600.000 | 4.187 | 4,19 |
| Storm Eco Hybrid | 7.000 | 4.200.000 | 4.885 | 4,89 |
| Storm Eco Hybrid | 8.000 | 4.800.000 | 5.582 | 5,58 |
| Storm Eco Hybrid | 9.000 | 5.400.000 | 6.280 | 6,28 |
| Storm Eco Hybrid | 10.000 | 6.000.000 | 6.978 | 6,98 |
| Storm Eco Hybrid | 12.000 | 7.200.000 | 8.374 | 8,37 |
| Storm Eco Hybrid | 14.000 | 8.400.000 | 9.769 | 9,77 |
| Storm Eco Hybrid | 16.000 | 9.600.000 | 11.163 | 11,16 |
| Storm Eco Hybrid | 18.000 | 10.800.000 | 12.558 | 12,56 |
| Storm Eco Hybrid | 20.000 | 12.000.000 | 13.953 | 13,95 |
| Storm Eco Hybrid | 23.000 | 13.800.000 | 16.047 | 16,05 |
| Storm Eco Hybrid | 25.000 | 15.000.000 | 17.442 | 17,44 |
| Storm Eco Hybrid | 28.000 | 16.800.000 | 19.535 | 19,53 |



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# Storm ECO Series - Hybrid Steam Boiler

*https://www.ekotekkazan.com/product/storm-eco-series-hybrid-steam-boiler*

## About the Product

The Storm Hybrid Series is an intelligent hybrid system designed to generate high-quality steam for industrial facilities. It primarily operates on liquid and gas fuels such as natural gas, diesel, fuel oil, LPG, and LNG. When needed, it is supported by electric power to ensure uninterrupted operation. Thanks to its hybrid structure, steam production is carried out with an energy-efficient system that optimizes energy costs while ensuring supply security.

## Detailed Description

The Storm Hybrid Series offers high efficiency and low emissions with its specially engineered body structure for high-pressure steam demand, featuring a three-pass Scotch-type flame-smoke tube design. Thanks to SCADA & PLC-supported automation, the system can be monitored and managed remotely.

- Textile: Dyehouses, finishing and treatment lines
- Food: Pasteurization, sterilization, blanching, cooking
- Pharmaceutical and Chemical: Process heating, reactor jacket systems
- Autoclave Systems: Packaging, sterile material production
- Energy-Focused Facilities: Production lines requiring continuous steam supply
- Fuel-priority operation with electric backup ensures continuous energy supply
- ±0.1 bar steam pressure accuracy
- Automatic switching based on energy tariff for cost optimization
- Low emissions and high efficiency
- Large-volume boiler design ensures stability during sudden steam demand
- SCADA & PLC-supported control system for remote access and enhanced operational safety

The Storm Hybrid Series is an ideal solution for facilities that require high steam output while aiming to control energy costs. Its hybrid structure ensures both energy security and economical operation. It is especially preferred in the following cases and sectors:

- Regions with high energy costs
- Facilities seeking backup solutions against power outages
- Processes requiring continuous steam supply
- Large-scale facilities with high steam consumption
- Eco-conscious operations aiming to reduce emissions
- Uninterrupted Operation: The boiler continues to operate with electric support even if the main fuel is interrupted

- Energy Cost Optimization: Automatically switches to the most affordable energy source based on tariffs
- Smart Control System: Burner and electric transitions are automated—no manual intervention required
- Environmentally Friendly Operation: Significantly reduces emissions in electric-supported mode
- Wide Capacity Range: Produces between 200 – 40,000 kg/h of steam, suitable for SMEs to large industrial facilities
- Modular Structure and Easy Integration: Easily integrates with existing systems, offering low installation costs

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