

WHAT MAKES EVOSTEAM UNIQUE?

- 1 Environmental compliance:**
Reduced NOx emissions and the possibility of using ecofuel for greater sustainability.
- 2 Adaptability to production needs:**
A wide range of models and customisable configurations to meet every need.
- 3 Greater safety and operational continuity:**
Unmanned operation for up to 72 hours with the GSS24 and GSS72 systems.
- 4 Ready for a new energy future:**
Compatibility with hydrogen mixtures up to 100%, favouring energy transition.
- 5 Certified reliability:**
Product compliant with the main international standards, guaranteeing quality and safety.
- 6 Reduced operating costs:**
Greater efficiency and lower consumption thanks to optimised combustion and the high-performance heat exchanger.
- 7 Synoptic:**
Advanced control and remote management via real time monitoring, parameter optimisation and interconnection with the thermal power station. Includes a PLC developed by ICI (optional) and remote management via a web page with synoptic for displaying operating data.



ICI
POWERING EVOLUTION

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Evosteam P

Industrial 3-pass steam boiler

ICI
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H₂
Ready

TOP CATEGORY EFFICIENCY

EVOSTEAM is a three-pass steam boiler designed to offer high efficiency and adaptability to advanced industrial needs. Available in 13 models with a capacities from 1,500 to 10,000 kg/h, it is ideal for high-performance thermal systems. It optimises combustion and, in combination with low-emission burners, reduces the environmental impact. Its heat exchanger guarantees high energy yield and it is compatible with traditional fuels and sustainable solutions. It is highly configurable, with optional accessories and safety systems that allow unattended operation for up to 24 or 72 hours..

Nominal power
1701 ÷ 7823 kW

Design pressure
12 ÷ 15 bar

Efficiency
91 %



Fruit of experience, shaped by expertise

- Optimised furnace for use with low NOx burners
- Heat exchanger designed for high thermal efficiency
- Compatible with traditional fuels (natural gas, LPG, diesel, naphtha)
- Compatibility with sustainable fuels (biogas, biomethane, biodiesel, syngas)
- H2 Ready: operation with hydrogen mixtures up to 100%
- Wide range of accessories for a high level of configurability
- GSS electronic control system for monitoring and intelligent management
- GSS24 and GSS72 safety systems for unmanned operation

Certifications



A SAVING IN THREE PUFFS OF SMOKE

A three-pass boiler offers various advantages, above all in terms of efficiency and energy yield:

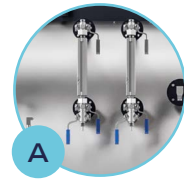
- Better heat exchange
- Greater energy efficiency
- Reduced polluting emissions
- Durability and reliability
- Greater savings in consumption



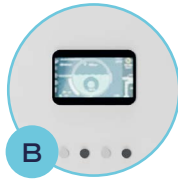
TECHNICAL DATA

Evosteam	Steam production	Heat output		Thermal capacity		Total volume H ₂ O	Capacity at level	Flue gas pressure drop	Burner head length
		12 bar	15 bar	12 bar	15 bar				
	kg/h	kW	kW	kW	kW	lt	lt	mbar	
2500	2500	1701	1701	1869	1869	5400	3400	11,9	540-590
3500	3500	2381	2381	2616	2616	6800	4650	9,6	540-590
5000	5000	3401	3401	3738	3738	9400	6935	13,3	540-590
7100	7100	4830	4830	5307	5307	13350	10980	18,4	540-590
9000	9300	6324	6324	6952	6952	16600	13200	21,5	540-590
11500	11500	7823	7823	8596	8596	20450	17150	20,8	540-590

OPTIONAL ACCESSORIES



ADDITIONAL LEVEL INDICATOR
Additional level indicator for increased operational safety



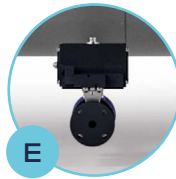
GSS 24 PLUS - GSS 72 L/H
Safety and control kit with PLC allowing operator exemption for up to 24/72 hours



ADDITIONAL FEED PUMP
Second feed pump ensuring continuity in case of failure or maintenance



AUTOMATIC STEAM OUTLET
Device for automatic opening/closing of steam extraction from boiler to system



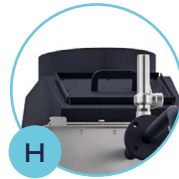
AUTOMATIC SLUDGE REMOVAL DRAIN
Timed sludge discharge from generator bottom for efficiency and durability (included in GSS72 kit)



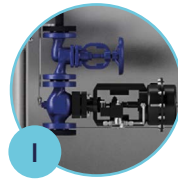
NEOX BURNER
Low-emission burner, available in gas or dual gas/diesel version



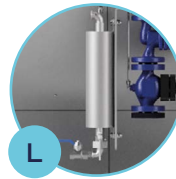
MODULATING FEEDING
Continuous boiler water level control with flow modulation to optimize consumption



ENERGY SAVERS
Exchangers recovering heat from flue gases, increasing efficiency by up to 5%



TDS SALINITY CONTROL
Automatic system for measuring and controlling boiler water salinity (included in GSS72 kit)



SAMPLE COOLER
Device for immediate cooling of water samples for analysis (included in GSS72 kit)



LADDER AND HANDRAIL
Accessories for safe access and use of the walkway

STANDARD ACCESSORIES

1. Safety valves
2. Level indicators
3. Electrical panel
4. Water feed pump
5. Pressure switch and pressure gauge unit
6. Level adjustment probes



DIMENSIONS

Evosteam	H	L	P	Total weight		Total volume
				12 bar	15 bar	
	mm	mm	mm	kg	kg	l
2500	3470	2881	4312	7000	7000	5400
3500	3600	3164	4580	8300	8300	6800
5000	3840	3209	5165	10500	10500	9400
7100	4316	3310	5735	12850	12850	13350
9000	4510	3760	6478	15000	15000	16600
11500	4709	4058	6717	20000	20000	20450

MAINTENANCE BECOMES A BREEZE!

Thanks to the double door, inspecting the boiler body is now quicker and straightforward. The boiler can be accessed easily without needing to remove the burner - a task that would otherwise be time-consuming. This greatly enhances maintenance efficiency, reducing both downtime and overall costs.



SYSTEM COMPONENTS

Components and accessories for the construction and completion of thermal power stations for steam generation. These are designed and built on SKID to facilitate installation.



ADD
Feed water treatment for steam boilers



VRC-V
Horizontal or vertical condensate collection tank



BDV
Blowdown vessel



VEX
Steam accumulator



DEG
Atmospheric deaerator



DEG/P
Pressurised deaerator