

#### WHAT MAKES EVOSTEAM UNIQUE?

- **Environmental compliance:**
- Reduced NOx emissions and the possibility of using ecofuel for greater sustainability.
- Adaptability to production needs:
- A wide range of models and customisable configurations to meet every need.
- **Greater safety and operational continuity:**Unmanned operation for up to 72 hours with the GSS24 and GSS72 systems.
- Ready for a new energy future:
  - Compatibility with hydrogen mixtures up to 100%, favouring energy transition.
- Certified reliability:
  - Product compliant with the main international standards, guaranteeing quality and safety.
- Reduced operating costs:
- Greater efficiency and lower consumption thanks to optimised combustion and the highperformance heat exchanger.
- 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.





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# Evosteam

Industrial 3-pass steam boiler





#### 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 highperformance 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

1020 ÷ 6826 kW

Design pressure

12 ÷ 15 bar

Efficiency 91%



# Fruit of experience, shaped by expertise

- Optimised firebox 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	Design pressure		Thermal Flow		Total volume H <sub>2</sub> O	Capacity at level	Flue gas pressure	Burner head length	
		12 bar	15 bar	12 bar	15 bar	2		drop		
	kg/h	kW	kW	kW	kW	lt	lt	mbar		
1500	1500	1020	1024	1121	1125	5400	3400	4,4	540-590	
1700	1700	1156	1160	1271	1275	5400	3400	5,6	540-590	
2000	2000	1360	1365	1495	1500	5400	3400	7,7	540-590	
2500	2500	1701	1706	1869	1875	6800	4650	5,2	540-590	
3000	3000	2041	2048	2243	2250	6800	4650	7,2	540-590	
3500	3500	2381	2389	2616	2625	9400	6935	6,9	540-590	
4000	4000	2721	2730	2990	3000	9400	6935	8,9	540-590	
5000	5000	3401	3413	3738	3750	13350	10980	9,6	540-590	
6000	6000	4081	4095	4485	4500	13350	10980	13,4	540-590	
7000	7000	4762	4778	5233	5250	16600	13200	12,7	540-590	
8000	8000	5442	5460	5980	6000	16600	13200	16,3	540-590	
9000	9000	6122	6143	6728	6751	20450	17150	13,3	540-590	
10000	10000	6802	6826	7475	7501	20450	17150	16	540-590	























SAMPLE CHILLER



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 timeconsuming. This greatly enhances maintenance efficiency, reducing both downtime and overall costs.

# SYSTEM COMPONENTS

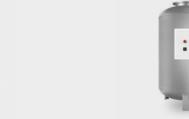
Components and accessories for the construction and completion of thermal power stations for steam generation. These are designed and built on SKID to facilitate installation.



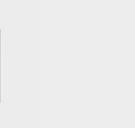
Feed water treatment for

steam boilers

Steam accumulator



MAINTENANCE BECOMES A BREEZE!





VRC-V Horizontal or vertical condensate collection tank

Blowdown vessel



Atmospheric deaerator



Pressurised deaerator

#### OPTIONAL ACCESSORIES



GSS 24 PLUS - GSS 72 L/H



Additional level indicator for Safety and control kit with PLC Second feed pump ensuring ontinuity in case of failure or



OUTLET Device for automatic opening, closing of steam extraction from boiler to system

generator bottom for efficiency in gas or dual gas/diesel version

control with flow modulation to

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

Automatic system for

EV[]STEAM

of water samples for analysis (included in GSS72 kit)

use of the walkway

STANDARD ACCESSORIES

- 1. Safety valves 2. Level indicators
- 3. Electrical panel

INDICATOR

- 4. Water feed pump
- 5. Pressure switch and pressure gauge unit
- 6. Level adjustment probes



# **DIMENSIONS**

Evosteam	н		P	Total	weight	Total volume
	П	_		12 bar	15 bar	
	mm	mm	mm	kg		I
1500	3470	2881	4312	7000	8100	5400
1700	3470	2881	4312	7000	8100	5400
2000	3470	2881	4312	7000	8100	5400
2500	3600	3164	4580	8300	9550	6800
3000	3600	3164	4580	8300	9550	6800
3500	3840	3209	5165	10500	12100	9400
4000	3840	3209	5165	10500	12100	9400

Evosteam	н		P	Total	weight	Total capacity	
Evosteam	п	_		12 bar	15 bar	rotal capacity	
	mm	mm	mm	kg		[	
5000	4316	3310	5735	12850	14800	13350	
6000	4316	3310	5735	12850	14800	13350	
7000	4510	3760	6478	15000	17250	16600	
8000	4510	3760	6478	15000	17250	16600	
9000	4709	4058	6717	20000	23000	20450	
10000	4709	4058	6717	20000	23000	20450	