



DESCRIPTION

Clean indirect steam boiler easy to install thanks to duly sized components, mounted and connected at the factory and subjected to functional test. ISG series clean steam boilers use a U-shaped tube bundle as heat exchanger and represent the cheapest method to produce clean steam when technological steam is used as a energy source. All parts in contact with water and steam of the casing side are made of stainless steel AISI 316 or AISI 304.

FEATURES

-  **Design pressure: 6 bar**
-  **Heat output: 115 ÷ 2054 kW**
-  **Steam capacity: 160 ÷ 2750 kg/h**

For different pressures and outputs see our commercial department

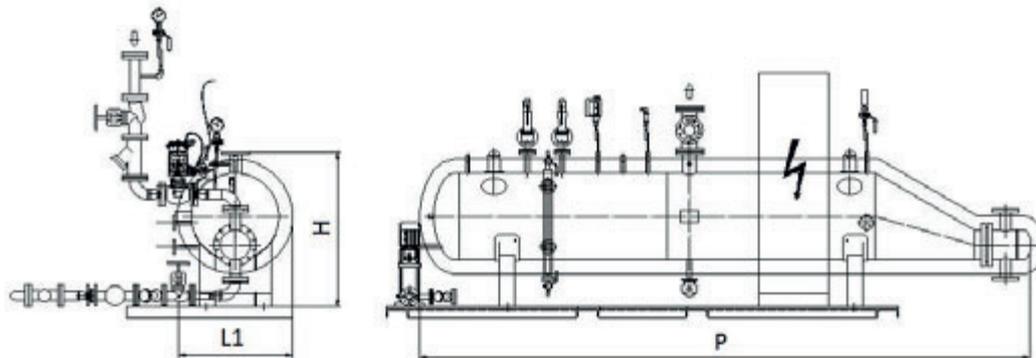
ADVANTAGES

-  **Easy, fast and safe installation**
The installation is very easy: you just need to connect the system to the electric, hydraulic, steam and discharge lines.
-  **Guarantee of “clean” steam**
Since it cannot be contaminated by corrossions internal to the boiler as its parts in contact with the steam are fully made in stainless steel.
-  **Certification of “assembly”**
According to the PED Directive to streamline commissioning procedures.
-  **Supervision not needed for 24 h**
In its standard installation, the boiler is certified to operate without supervision for 24 h and with additional accessories for 72 h

MAIN APPLICATIONS

-  Hospitals
-  Food and beverage industry
-  Sterilisation process

Indirect clean steam boiler



DIMENSIONS

Model	Code	H	P	L1	Weight
		mm	mm	mm	kg
ISG 4	87160040	1050	1350	340	200
ISG 5	87160050	1150	1850	450	230
ISG 7	87160070	970	3570	875	410
ISG 8	87160080	1050	3400	950	445
ISG10	87160100	1150	3600	1050	705
ISG12	87160120	1150	4600	1050	820

Data relating to the only exchanger body

TECHNICAL DATA

Model	Heat Output	Clean steam capacity (*)	Primary steam flow rate 8 bar (G) (**)	Primary side design pressure	Secondary side design pressure
	kw	kg/h	kg/h	bar(G)	bar(G)
ISG 4	115	160	202	12	6
ISG 5	359	500	636	12	6
ISG 7	646	900	1145	12	6
ISG 8	719	1250	1577	12	6
ISG10	1307	1750	2317	12	6
ISG12	2054	2750	3637	12	6

(*) Max level of production of steam at 4 bar (G), feeding of water at 15°C, without blowdowns, with clean boiler.

(**) The net pressure to ISG is 8 bar(G), system pressure must be higher by taking into account the pressure drop of the control valve

AVAILABLE CERTIFICATIONS



STANDARD EQUIPMENT

Accessories on the steam side, including:

- Steam outlet/crown valve
- Safety valve

Monitoring instrumentation, comprising:

- Large dial 3 way test valve manometer
- Analogue pressure transducer
- Manual reset safety pressure presure switch

Feed water delivery system containing:

- 1 vertical multi-stage centrifugal electric pump for water at 120°C
- 1 shut-off globe valve
- 1 pump suction filter
- 2 non-return valves

Blow down system comprising:

- Quick exhaust valve with manual lever

Magnetic-type level automatic controller with the following function:

- Start and stop pump
- (*) Max level of production of steam at 4 bar (G), feeding of water at 15°C, without blowdowns, with clean boiler.

Primary steam regulating unit consisting of:

- 2 manometers
- 1 shut-off globe valve
- Regolatore automatico livello di tipo magnetico con funzione di :
- 1 pneumatic modulating adjustment valve
- 1 steam trap equipped with bypass and shut-off valves and flow indicator

Boiler control panel, IP 55 400V/3 +N/ 50Hz

ACCESSORIES AVAILABLE FOR THE RANGE

Code	Description	ISG
86900044	Automatic purging system (*)	■
17090035	Salinity control unit (electric TDS) (*)	■
See "Accessories" section	Standby feed water pump	■

(*) The addition of both components (Automatic blowdown and electrical TDS) allows certifying the boiler as suitable to operate without supervision for 72 hours.

COMPONENTS FOR HEATING PLANT ROOM COMPATIBLE WITH THE RANGE



VRC-V
Condensate collection tank