

GXC

COMBINED STEAM GENERATOR



Standard equipment:

- steam accessory group contains:
 - steam intake valve for flow start
 - 2 safety valves
 - level indicator with direct reflection
 - shut-off valve group and drain indicator
 - 2 level test valves
- monitoring instrumentation curve, containing:
 - large dial 3 way test valve manometer
 - limit pressure gage
 - manual reset safety pressure gage
- water supply unit mounted on boiler support containing:
 - vertical multistage centrifugal pump suitable for 120°C water
 - 2 shut-off valves, powered at flow start
 - pump suction filter
 - 2 no return valves
- purging unit containing:
 - purge shut-off valve at flow start
 - male connection quick exhaust valve with manual lever
- automatic conductivity probe level regulator containing:
 - pump startup probe
 - pump shut-off probe
 - 1° alarm and burner block probe for low level
 - 2° alarm and burner block probe for low level
- boiler electric command panel, IP 55 electrical protection, composed of:
 - main switch
 - pump/main switch (off-manual-automatic)
 - burner switch
 - level regulation relay
 - low level 1° alarm relay with manual reset
 - low level 2° alarm relay with manual reset
 - high pressure light and alarm reset button
 - low level 1° pressure light and alarm reset button
 - low level 2° pressure light and alarm reset button
 - alarm siren

Central components:

- ECXV economizer
- VRC condensate collection vessel
- DEG atmospheric deaerator
- DEG/P pressurized atmospheric deaerator
- ADD power supply water treatment unit
- BD purge collection tank

Main features

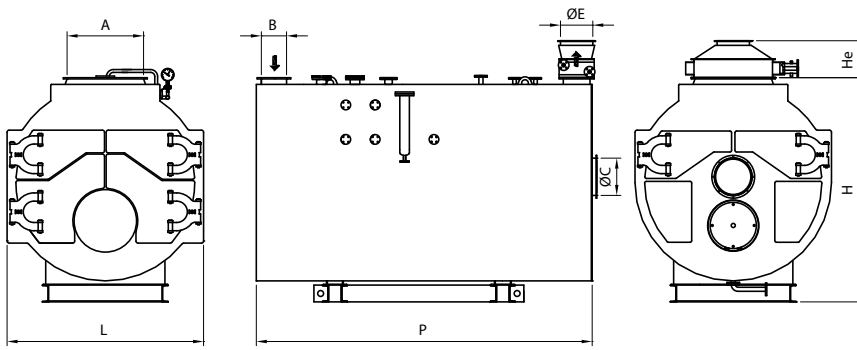
The GXC generator is an innovative generator which combines steam production by combustion to hot fumes heat recovery, fumes arising from external sources; the latter "free" source is configured as the priority, while the combustion can simply serve as a backup or to provide the remaining power if recovery fumes are not sufficient to cover system steam demand.

From a single compact design generator are thus combined two operating principles:

- combustion operation, three smoke ways, passing flame and wetback.
- recovery operation, with direct completely separate and independent smoke passing, but immersed in the same boiler water

Some of the product's main features are related below:

- P265GH UNI EN 10028/2 and P275NH UNI EN 10028/3 quality steel boiler body welded and tested with methods approved and labeled CE in accordance with the PED 97 /23/EC directive
- horizontal, passing flame combustion chamber, with possible curved hot manufactured section.
- wetback combustion produce reversion chamber, sported and connected to a socket of 500 mm diameter with manhole function
- Tube plates with holes drilled by the drill machine and then re bored out by smoke pipe welding; all of the plates are completely reshaped using heat, with head to head welds rather than angle welds, on all models
- plate containment with flanged PN 16 or PN 40 EN 1092-1 connections for equipment operation; equipped with superior, inferior head hatch, lifting eye bolt.
- P235GH UNI EN 10216/2 smoke tubes welded to tube plates, eventually equipped with turbulators
- front smoke box made from steel sheet, thermally insulated with refractory materials with a high aluminum content, equipped with two flat separated doors, lined in ceramic fiber and rotating on a double-jointed hinges; complete with refractory cone and a perforated plate for burner inclusion
- rear smoke box made from steel sheet, thermally insulated with refractory materials with a high aluminum content equipped with two flat separated doors and rotating on a double-jointed hinges, equipped with cleaning hatch, chimney connection, buffer for access to the combustion chamber, light flame with guillotine closing
- Front manifold for "hot" fumes inlet integrated into the front fumes chamber, made from steel sheets thermally insulated with high aluminum content refractory materials, equipped with two distinct flat doors, lined in ceramic fiber rotating on a double-jointed hinges complete with connection flanges for fumes duct with a top entrance.
- rear manifold for "cold" fumes outlet integrated into the posterior fumes chamber, made from steel sheets thermally insulated with high aluminum content refractory materials, equipped with two distinct flat doors, lined in ceramic fiber rotating on a double-jointed hinges complete with connection flanges for fumes duct with a top entrance or for economizer connection.
- support built form carbon steel sections able to support the entire unit.
- embossed metal sheet upper walkway for accessories service, parts located above the boiler
- high density, mineral wool mattress, adequate thickness thermal insulation, with round embossed aluminum case.
- Supplied accessories needed for automatic operation with mechanical and hydraulic assembly for all equipment and certifications, also in compliance with the PED 97 /23/ EC Directive
- Electrical wiring converging to a single centralized control panel, having silicone insulated wires inserted in PVC protective sheaths all subjected to final functionality test



Available accessories	Code
Ladder and handrail	90060060
recovery and/or combustion economizer	
automatic 3 way shutter for steam pressure adjustment	
Series SIXEN and GX generators automatic purge unit	
salinity control unit (TDS pneumatic)	17090037
salinity control unit (TDS electrical)	17090035
salinity control unit (TDS electrical light)	17090051
Sample cooler	38040100
backup supply pump	
modulating level regulatory system	
High level security kit	90060010
Auto diagnostic high level security kit	90060040
Auto diagnostic low level security kit	90060050
GSS72/2 global security system	86900068

Additional information

The Commercial Technical Office is at your disposal in technical characteristics definition, characteristics composing the GXC steam boiler. This possibility is for the process of filling out a form in which the customer provides a range of information can be divided into:

- General:
 - Fluid type: specify the type of fluid required in case of vapor (saturated or hot) or water (hot or overheated).
 - Required fluid parameters: pressure and temperature.
- Recovery:
 - Request potential
 - Fumes source fuel: methane gas, diesel oil, LPG or other
 - Recovery fumes maximum flow rate
 - Recovery fumes temperature
 - Maximum allowed fumes load loss

In this section you can also choose if you need the following components:

- Economisor
- Flue gas regulation bypass unit

- Fuel:
 - Request potential
 - Fuel: methane gas, LPG, diesel oil, or other

In addition, also in this section, you can ask for the supply of:

- Burner
- Economisor