



HBJ

HYGIENIC STEAM & PURE STEAM GENERATOR

GENERAL FEATURES

Material: Stainless Steel (AISI 316 Ti)

Working Principle: Creation of hygienic steam quality using the steam heat exchanger as the primary heating energy for high steam demands.

Design: The unit consists of a clean steam tank, heat exchanger, on the chassis, pumps, valves, level controls and control panel. The unit is pre-wired and piped. Tested by hydrostatic tests. The structural steel is mounted and delivered as a fully packed unit with a simple connection for installation and use.

Dimensions, capacities, input and output connections will be designed according to the requirements. Single tanks are available on request.

Conditions: Standard operating pressure between 1 to 5 bar (g) 250 kg / s - 4,000 kg / hour capacity. Higher pressure ratios and capacities on request Flange Standard acc. DIN EN 1092-1, PN6 / 16 / 40 Standards: The product complies fully with the requirements of the European Pressure Equipment Directive 97/23 / EC and has the CE marking.

Specifications

- Complete Stainless Steel (1715 / 316L) Manufacturing
- Plated or Tube type construction
- Wide Capacity (150-4000 kg / h unit) Range
- Spiral Heat Changer
- Pump Feed Station
- Steam Production Module
- Deaerator (Gas Separation) Module
- Steam Dryer Cell
- Automatic Blowing Module
- Thermal Body Isolation

HYGIENIC STEAM & PURE STEAM GENERATOR

Today, there are four steam grades commonly used in the industry:

System (Plant) Steam, The Filtered Steam, Hygienic Steam, Pure Steam.

Steam Purity Range	Steam Application Area
Pure	Pharmaceutical Industry
	Biotechnology
Clean	Hospital
	Cosmetic
	Food & Beer
Filtered	Food & Beer
Plant	Hvac
	Textile
	Petrochemical

System is perfect for heat transfer application for petrochemicals, pulp mill and paper industries. Food companies should use filtered steam at a minimum level or use hygienic steam to remove the risk of contamination. Pure steam is the highest grade choice and is required for pharmaceutical and biotechnological applications.

Hygienically and pure steam; It is used for sterilization, vacuuming, humidification and heating processes in Food, Pharmaceutical, Cosmetic and Hospital establishments. Since steam used in these processes must meet the hygiene norms, Hygienically Steam Generation is provided by Sekonder Hygienically Steam Generators which are suitable for sterile steam conditions.

HYGIENIC STEAM

When “Steam Cleaning” is mentioned, it is often referred to as “Hygienic Steam” rather than system steam.

This is usually divided into 4 different categories:

System Steam: FDA approved standard boiler chemicals are used in a typical conventional water treatment and inside the steam generated boiler. The tubing is standard carbon steel or even black pipe can be cast iron. All the condensate is recovered.

Filtered Steam: Steam, which is generated by conventional boiler, is filtered to remove condensate and solid particles. FDA approved chemicals used in standard boilers. If the pipe is a standard carbon steel or black iron, it must be replaced with 316 Stainless Steel. All the condensate is recovered.

Hygienic Steam: is not include any addiction (boiler chemicals etc.) and ionized or produced by reverse osmosis systems. All materials, components and pipes are 316 L Stainless Steel. Rarely recovered condensate is typically sent to a settling tank and then it is for water purification.

Pure Water: is not include any addiction (boiler chemicals etc.) and which is production of pure water. All materials, components and pipes are 316 L Stainless Steel.



HEAD OFFICE - FACTORY

Atatürk Sanayi Bölgesi Hadımköy Mahallesi Mustafa İnan Caddesi No: 44 Arnavutköy - İSTANBUL
Tel: +90 212 771 01 45 (pbx) | Fax: +90 212 771 47 27
info@ayvaz.com | www.ayvaz.com

Cona
Caserta/Italy
Tel: +39 0823 187 3988
rmolaro@ayvaz.com

Ayvaz Russia
Moscow/Russia
Tel: +74959951728
ayvazrus@ayvaz.com

Ayvaz Germany
Viernheim/Germany
Tel: +49 62046014399
germany@ayvaz.com

Ayvaz Ukraine
Kiev/Ukraine
Tel: +380 44 390 57 57
info@ayvaz.com.ua

Tricorr
Warsaw/Poland
Tel: +48-32-783-295-1
tricorr@tricorr.eu

Haci Ayvaz M.E.
Dubai/U.A.E
Tel: +971 563550822
+971 501306871
mideast@ayvaz.com

Ayvaz China
Cixi City/China
Tel: +86 0574 5897 3851
info@ayvazchina.com

Ayvaz Kazakhstan LLP
Almaty/Kazakhstan
Tel: +7 (727) 327 97 57
info_kz@ayvaz.com
www.ayvaz.kz

Ayvaz N
Isperih/Bulgaria
Tel: +359 8431 27 32
office@ayvaz-n.eu

Ayvaz Serbia
Belgrad/Serbia
Tel: +381 61 658 70 52
yakbiyik@ayvaz.com