

Hisaka Works, Ltd. is Committed to the Highest Levels of Cleanliness

Ensuring a Clean Work Environment with Clean Equipment

Hisaka maintains a permanent dedicated space within the factory for the assembly of equipment that requires a high degree of cleanliness, such as pharmaceutical equipment. In the past, we primarily removed foreign matter through the cleaning of components. However, we now utilize this dedicated clean space to prevent contamination during the assembly process itself, ensuring that the products have an even higher degree of cleanliness.

Assembly by dedicated tools used only in the clean area

We use SUS tools to prevent iron powder contamination from tooling.

Strict prevention of contamination by dust and other foreign matter

Having a preparation room that is separate from the clean area prevents the ingress of foreign matter.

Able to handle the assembly of large equipment

By making full use of the factory space, it is possible to assemble large-scale equipment.



 HISAKA WORKS, LTD. PROCESS ENGINEERING DIV.

Pharmaceutical Machinery Sales Dept.

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HISAKA WORKS, LTD., Process Engineering Division is both ISO9001 and ISO14001 certified.

HISAKA WORKS, LTD., Ikoma Plant is ISO45001 certified.

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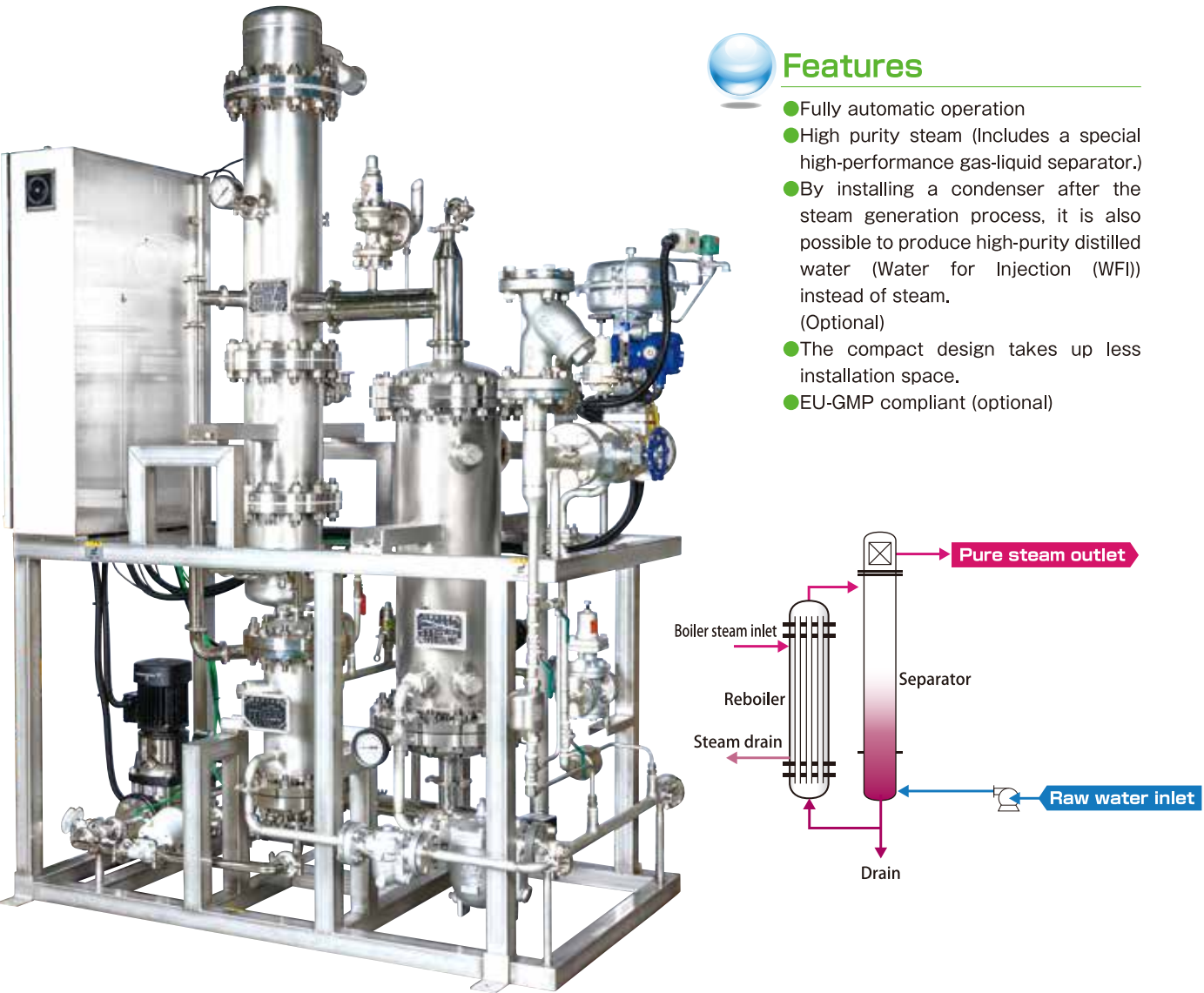
Pure Steam Generator
Distilled Water Production Equipment REB



with hopeful technology
HISAKA

Pure Steam Generator (REB-1 Model)

Hisaka's pure team generators supply pyrogen-free pure steam that is required for sterilizing various equipment, tanks, and piping used in pharmaceutical manufacturing processes. In addition to pharmaceutical manufacturing processes, they can also be utilized in a variety of applications that require pure steam, such as hospitals, research laboratories, as well as the food and cosmetics industries.



Features

- Fully automatic operation
- High purity steam (Includes a special high-performance gas-liquid separator.)
- By installing a condenser after the steam generation process, it is also possible to produce high-purity distilled water (Water for Injection (WFI)) instead of steam. (Optional)
- The compact design takes up less installation space.
- EU-GMP compliant (optional)

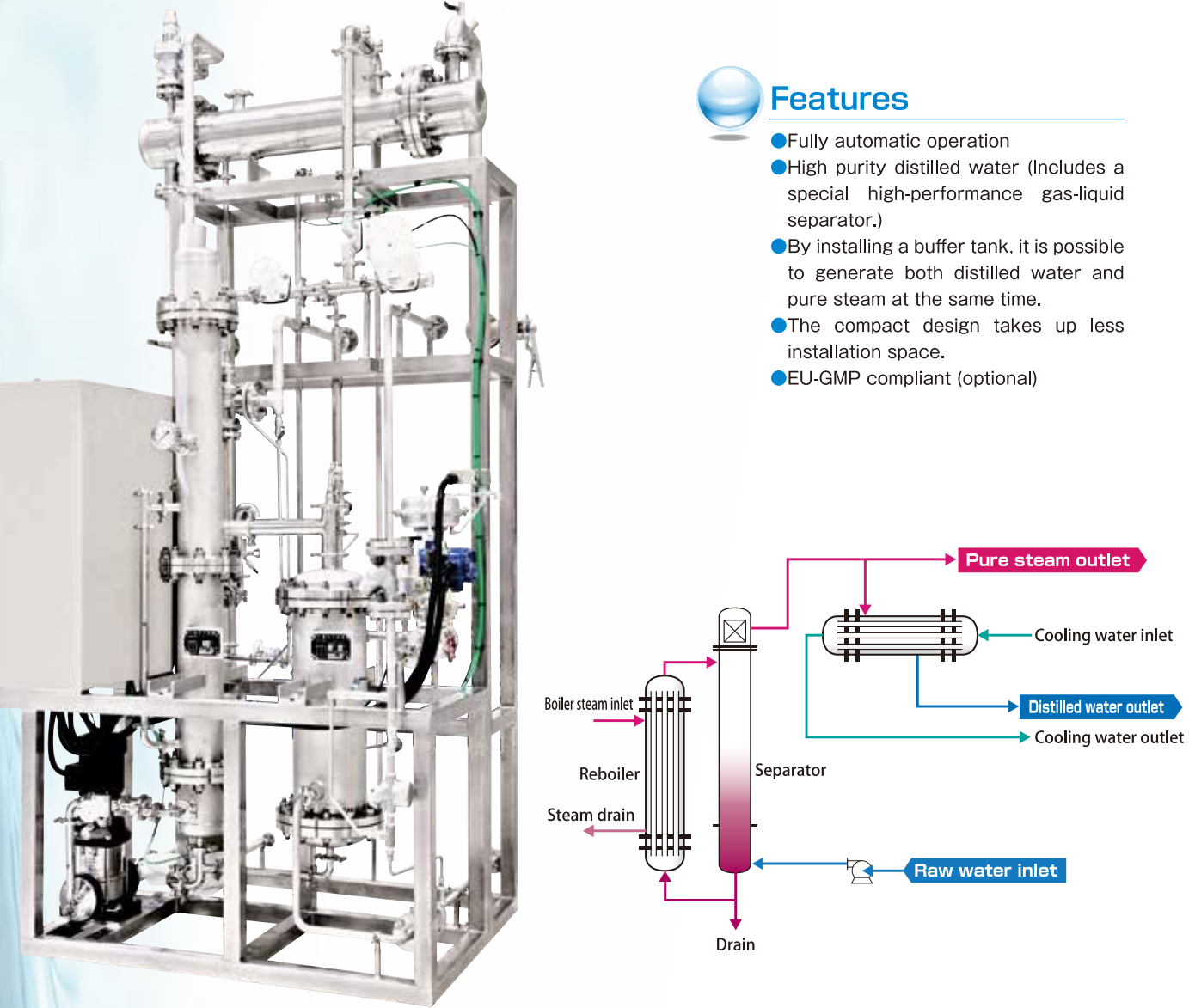
List of specifications

Model	Pure steam generation capacity ¹ (kg/h)	External dimensions (Width x Depth x Height)	Weight (Kilograms when operational)	Applicable regulation
REB-1-50	50	920×900×1800	240	Small-sized Pressure Vessel
REB-1-110	110	1250×850×2080	400	Small-sized Pressure Vessel
REB-1-220	220 ^{*2}	1570×840×2200	450	Small-sized Pressure Vessel
REB-1-330	330 ^{*2}	1460×840×2350	590	Small-sized Pressure Vessel
REB-1-500	500	1880×990×3100	900	Class-1 Pressure Vessel
REB-1-800	800	2100×1200×3500	1150	Class-1 Pressure Vessel
REB-1-1300	1300	1700×1600×3660	1700	Class-1 Pressure Vessel
REB-1-1800	1800	2200×1700×3800	2000	Class-1 Pressure Vessel

^{*1}: The pure steam generation capacity value is calculated when the original steam pressure is 0.5 MPa and the pure steam pressure is 0.2 MPa.
^{*2}: Adding a preheater (optional) can increase the amount of pure steam generated by around 10%.

Small-Volume Distilled Water Production Equipment (REB-2 Model)

Hisaka's small-volume distilled water production equipment is designed to produce distilled water by condensing the high-purity steam obtained from a pure steam generator. In addition to generating water for injection (WFI), it can also be utilized in a variety of fields that require high-purity distilled water, such as mixing or washing applications.



Features

- Fully automatic operation
- High purity distilled water (Includes a special high-performance gas-liquid separator.)
- By installing a buffer tank, it is possible to generate both distilled water and pure steam at the same time.
- The compact design takes up less installation space.
- EU-GMP compliant (optional)

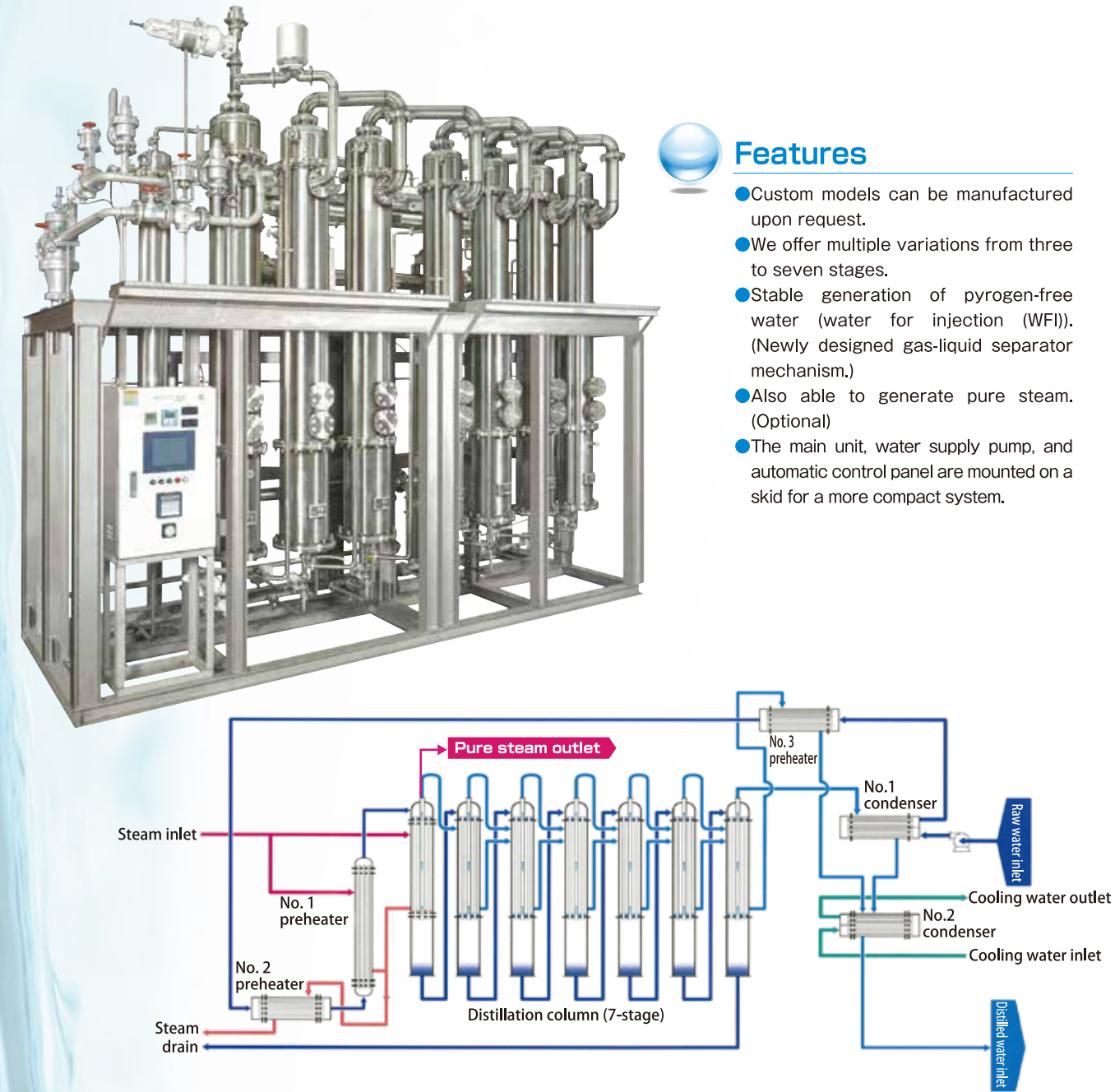
List of specifications

Model	Purified water generation capacity ¹ (lit/h)	External dimensions (Width x Depth x Height)	Weight (Kilograms when operational)	Applicable regulation
REB-2-50	50	920×1400×1800	450	Small-sized Pressure Vessel
REB-2-110	110	1250×1450×2100	650	Small-sized Pressure Vessel
REB-2-220	220 ^{*2}	1570×1450×2200	750	Small-sized Pressure Vessel
REB-2-330	330 ^{*2}	1460×1500×2350	940	Small-sized Pressure Vessel
REB-2-500	500	1880×1600×3100	1300	Class-1 Pressure Vessel
REB-2-800	800	2100×1900×3500	1600	Class-1 Pressure Vessel
REB-2-1300	1300	1700×2300×3660	2200	Class-1 Pressure Vessel
REB-2-1800	1800	2200×2400×3800	2550	Class-1 Pressure Vessel

^{*1}: The purified water generation capacity value is calculated when the original steam pressure is 0.5 MPa and the pure steam pressure is 0.2 MPa.
^{*2}: Adding a preheater (optional) can increase the amount of purified water generated by around 10%.

Distilled Water Production Equipment

Throughout years of experience in the industry, Hisaka has accumulated vast expertise in the field of thermodynamics and has developed advanced evaporative distillation technology. This technology formed a foundation for the development of novel pharmaceutical-grade distilled water production equipment. We are experts at handling everything from sales to design, manufacturing, and services based on our custom engineering.



Features

- Custom models can be manufactured upon request.
- We offer multiple variations from three to seven stages.
- Stable generation of pyrogen-free water (water for injection (WFI)). (Newly designed gas-liquid separator mechanism.)
- Also able to generate pure steam. (Optional)
- The main unit, water supply pump, and automatic control panel are mounted on a skid for a more compact system.

List of specifications

Model	Purified water generation capacity (lit/h)	External dimensions (Width x Depth x Height, mm)	Weight (Kilograms when operational)	Steam volume (kg/h)	Cooling water volume (m³/h)
REB-P5/3-500	500	2200×1400×3600	1640	202	0.73
REB-P5/3-1000	1000	2400×1500×3600	1860	404	1.45
REB-P5/5-2000	2000	3200×1600×4000	3950	635	1.70
REB-P5/5-3000	3000	3400×1700×4000	4300	950	2.50
REB-P5/7-4000	4000	4800×1800×4500	5320	820	2.00
REB-P5/7-5000	5000	5400×1900×4500	5800	1050	2.50

* All systems are classified as Class-1 Pressure Vessels.