



HBG

Conventional Wastewater
Evaporator with High-Efficiency
Combustion Chamber

Evaporation Rate of up to 30 Gallons per Hour

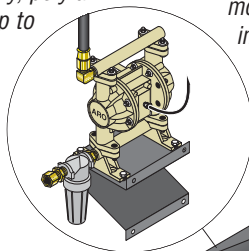
Heated by Natural Gas, Propane or Electricity

Optional Upgrade of Tank to Stainless Steel

ETL Safety Certified to UL-795



■ **Optional Wastewater auto fill** uses a heavy-duty, poly air-diaphragm pump to automatically refill the tank upon demand for continuous operation.



▲ Nema 4 fiberglass enclosure makes a water-tight **Control Box** featuring conveniently positioned **Hour Meter**, **Operational Indicator Lights**, manual reset high temperature **Cutout Switch**, and **Other Switches** for exhaust fan, burner, auto fill pump, and foam suppression system. The side panel includes **Troubleshooting Indicator Lights** and a **Batch Counter**, which monitors the wastewater concentration level and automatically shuts down the system when full concentration level is achieved.

■ **Adjustable Feet** for convenient leveling of equipment.

■ A **High-Temperature Safety Shutoff** turns unit off before the tank can be damaged by scorching. System includes a remote-mounted, audio-visual thermal alarm.

■ **Dual, insulated, double-walled Locking Lids** have easy-grip, insulated handles and provide quick and thorough access to tank while protecting the operator.

■ With the motor and bearings set off from the heat and steam path, the **Built-in Exhaust Fan** minimizes exposure to moisture for increased bearing life.

■ Steam and combustion gases mix within the fully insulated **Combustion Gas Plenum Box**, allowing emissions to be super heated; extra-tall flue gas stack prevents particulates entering the combustion box.

■ The top cover and exhaust stack are made of **Corrosion-Resistant Stainless Steel** for extra-long life in harsh environments.

■ A stainless steel float system with magnetic controls provides reliable **Low- and High-Water Shut Off** preventing the unit from overflowing or scorching the tank floor, as well as accommodating the optional automatic refill feature for continuous operation; a third **Float Switch** backs up the high level as redundant overflow protection.

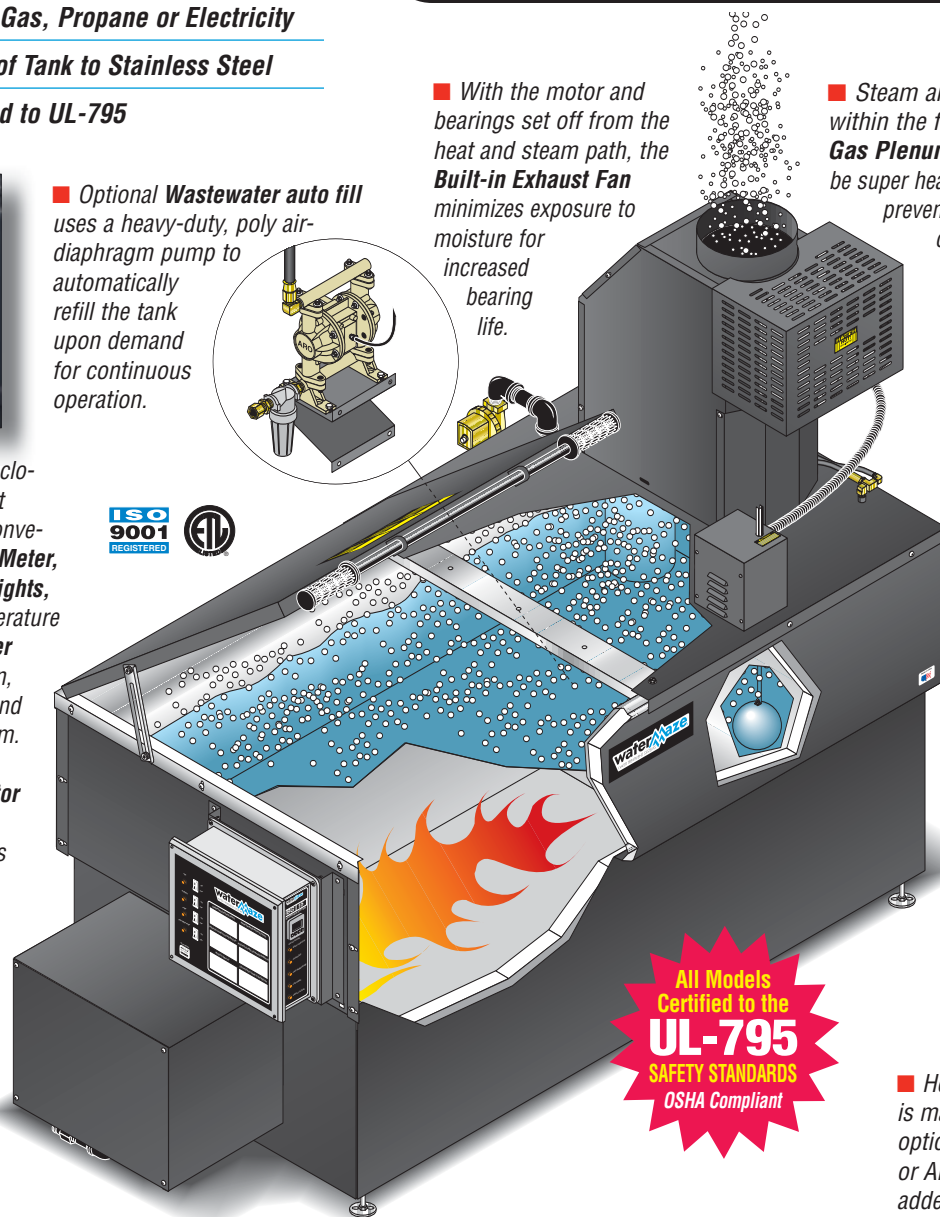
■ Heavy-duty **Evaporation Tank** is made of carbon steel with optional alloy upgrades to 316L or AL-6XN stainless steel for added corrosion resistance.

■ A 3-inch **Recessed Drain Port** is positioned below the tank floor for easy disposal of sludge.

■ High quality, energy-efficient **Burner** uses natural gas or propane fuel in a custom-designed, high-efficiency combustion chamber.

■ Made of high-density ceramic refractory fiber, the **Combustion Chamber** features a unique energy-efficient design for reflecting the heat directly onto the floor of the evaporation tank for energy savings. A key element of the unique design is the use of **Combustion Chamber Baffles**, which reflect the heat upward.

All Models
Certified to the
UL-795
SAFETY STANDARDS
OSHA Compliant



HBG

Conventional Wastewater Evaporator with Unique, Energy-Efficient Combustion Chamber

Evaporation Rate of up to 30 Gallons per Hour / Heated by Natural Gas, Propane or Electricity / ETL Safety Certified

HBG-30D
model



WHY CHOOSE WATER MAZE'S HBG-HBE

The three models of the HBG-HBE conventional evaporators process wastewater at rates of 8, 15, and 30 gallons per hour.

The natural gas-heated HBG systems have two models. The all-electric HBE, featuring eight 2600W coil-type elements, has one model with either 230V 3ph or 460V 3ph configurations.

All of the units are made of heavy-duty steel, insulated and double lined for energy efficiency and safety.

The HBG models feature our unique combustion chamber design, which uses advanced heat reflective material

to reflect the heat directly onto the underside of the evaporation tank floor for super-efficient energy usage.

A variety of redundant systems insure the safety of the operator. For instance:

- A high-limit thermo-couple turns off the unit before the tank can be damaged by scorching (includes a remote-mounted, audio-visual thermal alarm);
- A stainless steel float system provides high-low water level protection by shutting off the unit when the wastewater level rises or lowers excessively;
- A third float provides redundant or backup protection.

HBG Specifications

MODEL	HBG-30D
Evaporation Rate	25-30 GPH
Energy Source	Natural Gas / Liquid Propane
BTU Per Hour / KW	390,000 BTU/hr
Power Requirements	120V 1ph 3 amps
Compressed Air	4 cfm @ 60-100 psi
Tank Capacity	125 gal.
Tank Material	Carbon Steel (3/16" walls, 3/8" floor)
Insulation	Double Walled
Exhaust Stack	10" Stainless Steel
Dimensions	90"L x 44"W x 70"H
Shipping Weight (approx)	1,435 lbs.

HBG-15D
10-15 GPH
Natural Gas / Liquid Propane
200,000 BTU/hr
120V 1ph 3 amps
4 cfm @ 60-100 psi
70 gal.
Carbon Steel (3/16" walls, 3/8" floor)
Double Walled
6" Stainless Steel
78.5"L x 33"W x 65"H
1,215 lbs.

HBE Specifications

HBE-10B,C
6-8 GPH
8 x 2600 Watt Heater Elements
20.8 kW
B 230V 3ph 57 amps
C 460V 3ph 28 amps
4 cfm @ 60-100 psi
55 gal.
Carbon Steel (3/16" walls, 3/8" floor)
Double Walled
6" Stainless Steel
58.5"L x 41"W x 64"H
835 lbs.

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See your Water Maze Dealer for part numbers and pricing.

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WATER TREATMENT SYSTEMS