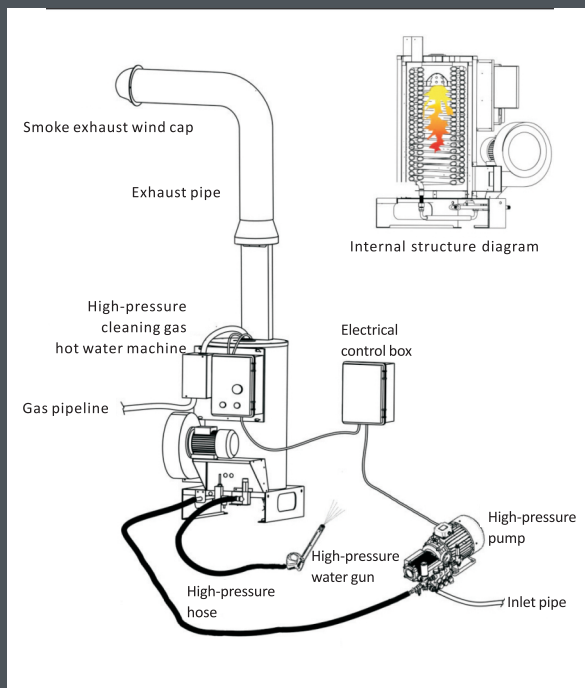


KEYWARM[®]
We Ignite Success

KFWH Gas High-Pressure Central Cleaning Hot Water Boiler

HOW IT WORKS

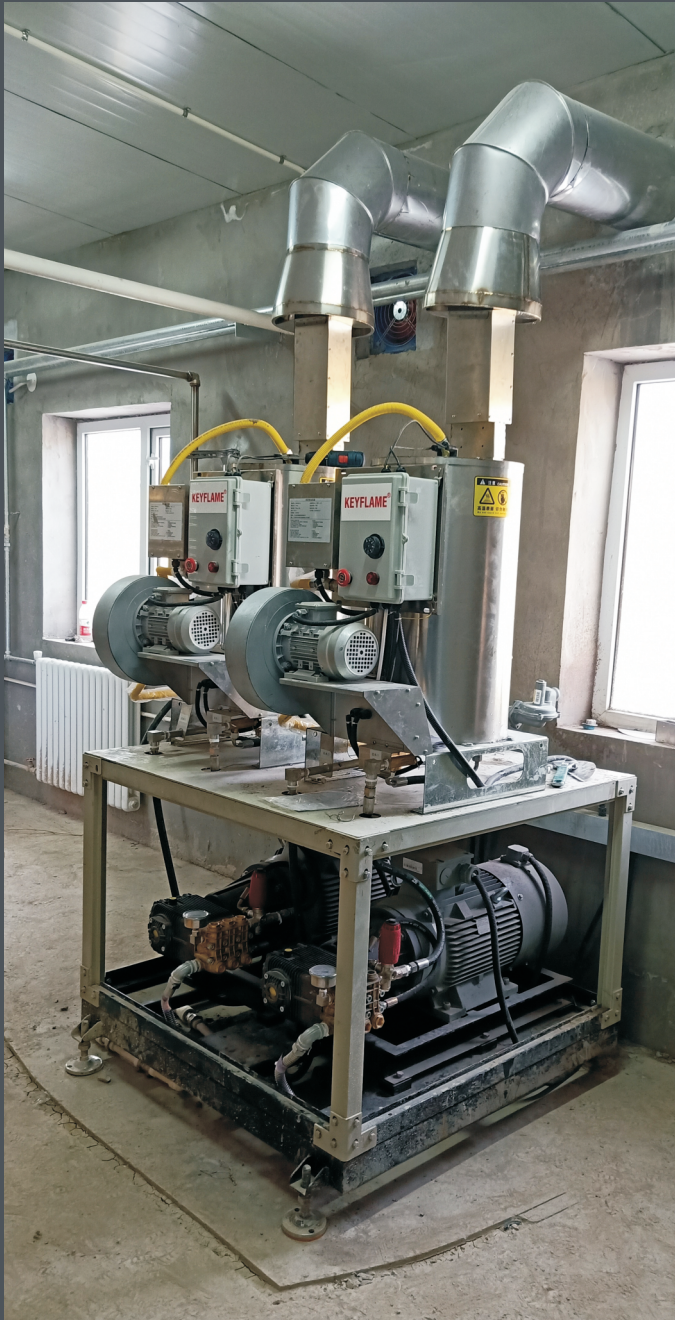
The high-pressure water gun is activated, and the high-pressure water pump starts working. High-pressure cold water, passing through the heat exchanger of the hot water machine, prompts the temperature controller to ignite. The combustion fan begins pre-blowing, and after the system self-check, the ignition controller initiates the ignition and combustion process. The high-temperature flue gas heats the heat exchanger, which absorbs heat and transfers it to the cold water, generating high-temperature, high-pressure hot water. When the water temperature reaches the set point of the temperature controller during flushing or when the water gun stops working, the combustion will stop.



Features

- Compatible with central cleaning systems, typically installed inside the machine room.
- Heat exchange system: Double-layer seamless steel pipe coil efficient heat exchanger. Stainless steel pipes are optional.
- Combustion system: Downward flame, dual-circuit heating, highly efficient and energy-saving. The content of harmful oxides such as CO in the flue gas is extremely low, avoiding tempering.
- Comprehensive water circuit protection: Water pressure protection (high/low pressure), water flow protection (high/low flow), water temperature and high-temperature protection, dry heat protection.
- Combustion safety: Pre-blow and post-blow. Ignition failure safety protection, accidental flameout protection, fan failure protection.
- Control system: 12VAC low-pressure ignition system and 24VAC gas valve, safe and reliable, easy for routine maintenance.
- Rear-mounted water heater: Cold water is heated after passing through the water pump, avoiding the accelerated aging of the pump and damage to the sealing components of the water cup.

KFHW Gas High-Pressure Central Cleaning Hot Water Boiler



Advantages/Benefits

- Effectively solves the cleaning issues of oil, grease, and proteins, especially stubborn stains.
- Improves emulsification, making it easy to remove.
- Environmentally friendly.
 - Short drying time for surfaces after cleaning.
- Significant reduction in bacteria, improving hygiene conditions.
- Saves up to 35% of cleaning time, improves cleaning effectiveness, and reduces detergent costs, allowing for a quick return on the initial investment in the hot water machine.
- Suitable for winter use, preventing freezing in pipelines and cleaning processes.

Applications

- Livestock and poultry sheds
- Petroleum and natural gas industry
- Restaurant kitchens
- Vehicle washing
- Construction sites
- Waste management industry



Technical Parameter

Model Specifications	Heat Load	Gas Consumption		Power Consumption	Maximum Water Flow	Temperature Rise	Dimensions (excluding exhaust pipe)/Weight
KFHW 88 N- 15	88kW	NG	8.5m ³ /h	550W (220V,50Hz)	15L/min	75°C	L 950xW450xH1000mm 88kg
KFHW 88 P- 15		LPG	6.8kg/h		21L/min		
KFHW 105 N- 21	105kW	NG	10.1m ³ /h				
KFHW 105 P- 21		LPG	8.2kg/h				
KFHW 130 N- 30	130kW	NG	12.5m ³ /h				
KFHW 130 P- 30		LPG	10.1kg/h				

1. Natural gas calorific value: 8,900 kcal/Nm³, Liquefied gas calorific value: 11,000 kcal/kg, Supply gas pressure: 3.5 kPa.

2. For installation instructions and precautions, please refer to our company's relevant installation manual.

Installation and Usage Guidelines:

I. System Design Guidelines

1. Model Selection:

Heating power and water flow are two essential parameters for the hot water machine. There are three available models for selection and combination:

88 kW, 15 L/min.

105 kW, 21 L/min.

130 kW, 30 L/min model.

In most central cleaning systems, users often choose the cost-effective model with the highest price-performance ratio, which is the 130 kW, 30 L/min model, and they may use multiple units in combination

2. Pressure Determination:

The common flushing water pressure in livestock and poultry sheds is 20 MPa. Properly increasing the working pressure of the hot water machine can reduce flushing time.

II. System Installation and Usage Requirements

1. Ventilation:

Install ventilation devices in the hot water machine room to prevent gas leakage from accumulating inside the room.

2. Exhaust Pipe:

Ensure that the exhaust pipe of the hot water machine is not blocked.

3. Gas Leak Alarm:

Install a gas leak alarm device in the hot water machine room. In the event of a leak, the alarm system should emit sound and light alerts and automatically cut off the gas supply.

4. Temperature Control:

Maintain the indoor temperature of the hot water machine room above zero degrees Celsius to prevent freezing of the hot water machine coil or water pipes.