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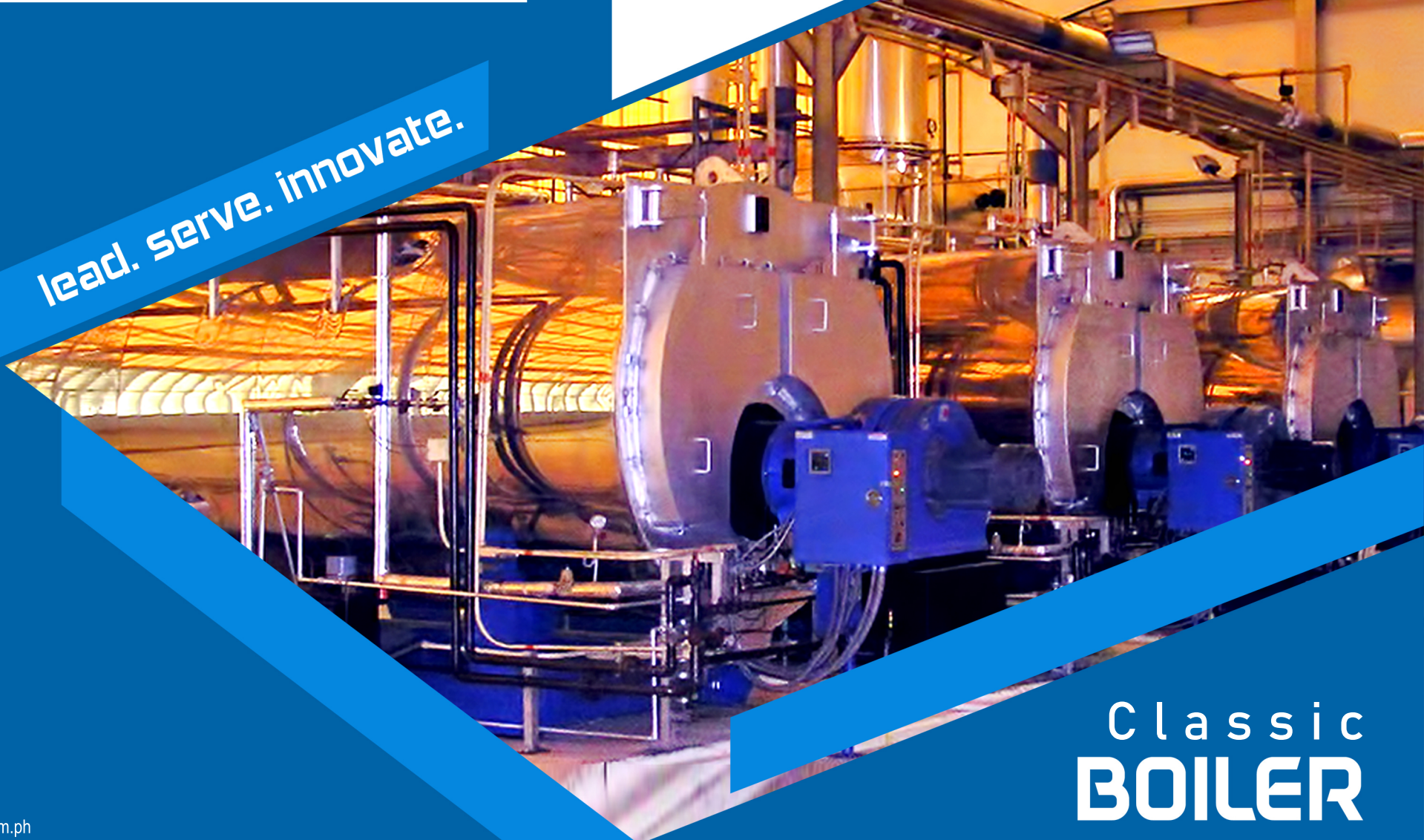
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Classic BOILER

WORLD CLASS QUALITY ■ RELIABILITY ■ DURABILITY ■ SERVICE GUARANTEED

Enertech Classic 3-Pass Wet-back Boiler

The Enertech CLASSIC 3-pass Wet-back Packaged Firetube Boiler is a high performance boiler unit suitable for firing Bunker C oil, Diesel oil and LPG. It is available in capacities from 60 to 1500 boiler horsepower (940 to 23,500 kg/h), with operating pressures of up to 250 psi.

HIGH EFFICIENCY LOW COST OPERATION

The Enertech CLASSIC is highly efficient, attaining thermal efficiencies of up to 93% at MCR when firing heavy oil (based on net calorific value of fuel). The 3-pass wet-back design combined with generous heating surface of 5 square feet per boiler horsepower, and highly efficient full modulation, air/stream atomized burner with 5:1 turn down, enables the unit's very high efficiencies. This is evident through the unit's very low exit gas temperature. This translates to large savings in fuel cost.

FULLY AUTOMATIC OPERATION

Fully automatic control are provided for continuous operation with minimal supervision. The burner has high/low/off control for 60 and 70 HP units and full modulation control for the higher capacity units. A float-type water level controller is mounted at the side of the boiler. This controls the operation of the feedwater pump, turning it on and off at preset levels. It also acts as first low water cut-off/alarm, shutting down the burner to prevent boiler damage in the event of a low water condition due to feedwater pump failure. A probe type 2nd low water cut-off to assure the boiler's safety. The boiler operating pressure is controlled by two pressure controllers; one controlling the burner on/off operation based on high and low operating limits and the other acting as a modulating control to adjust firing rate based on steam demand.



"INVESTING on Enertech Boilers means keeping the much needed foreign exchange currency in the country to help stimulate the various linkages of the economy."

Construction Features

- Davited front doors and split/hinged rear doors allow access to return tubes for ease in cleaning and maintenance.
- Front smoke box and doors are lined with space-age ceramic fiber.
- Large furnace-large diameter and sufficient length provides required furnace volume assuring complete combustion of fuel, especially heavy oil. Furnaces are of ring-reinforced type, providing a very rigid structure and at the same time, additional heating surface from stiffener rings.
- Structural steel skid base supports and projects burner and boiler.
- Control panel is burner or boiler mounted for ease of operation and maintenance.
- Front and rear doors are held shut using studs with lugs and brass nuts for easy removal.
- Wet-back design turnaround eliminates the need for refractory lining, baffles, gaskets and provides additional primary heating surface for increased efficiency.
- Two inch thick 132 kg/cu cm density mineral wool insulation reduces heat loss through the shell surfaces.
- Round smoke outlet requires only a stub shack for proper draft.
- Stainless steel finish for shell, to provide aesthetics and durability.
- 3-Pass design for optimum efficiency and economical operation.
- Burners are available in gas, light or heavy oil, and combustion; with air, steam or combustion, and pressure atomization of the oil.



COMPLETELY SAFE OPERATION

A "Fail-Safe" Control which exceeded trim and accessory requirements of ASME Code, has been integrated into the combustion system for total operational safety. The micro-processor-based integrated burner control provides automatic burner sequencing and flame supervision for a safe burner light off and shutdown. Furthermore, the burner control provides status indication and self diagnostics through a keyboard display module. The burner shuts down automatically in the event of flame failure, draft loss, low water and excessive steam pressure. Sufficiently sized safety valves are provided to relieve over pressure.

HIGHLY EFFICIENT AIR ATOMIZED BURNER

The Industrial Combustion Air/Steam Atomized Burner is standard on the Enertech CLASSIC Boiler. It's unique burner design and heavy duty construction are the reasons why it has a reputation for highly efficient operation, low maintenance trouble-free performance and long life. True force draft design provides ability to deliver rated capacities against furnace pressure up to 4"W.C. High turn down ratios full modulation and cam trim adjustments provides optimum performance to meet load demand. IC Burner's outstanding design feature is its positive displacement piston type oil metering unit which precisely meters oil volume, unaffected by oil temperature or viscosity. The cam feature makes it possible to adjust the burner for consistent and precise fuel/air ratios throughout the firing range.