




ARTEMIS
BOILER INDUSTRY
T.&V. BENAI S.A.



BOILER HOUSE
EQUIPMENT

A close-up photograph of a coil of finned tubes. The tubes are arranged in a dense, repeating pattern, with each tube having a series of longitudinal fins. The lighting highlights the metallic texture and the curvature of the tubes. A green text box is overlaid on the top left corner.

Finned tubes
of high quality

ECONOMIZER

The waste gases of the boilers have a temperature that usually exceeds 250° C. This energy dumped to the air can be regained by preheating the inlet temperature of the water in the boilers.

With an appropriate well sized and designed economizer, the temperature of the gases can be reduced below 120° C which will increase the efficiency of the boiler and will lead to a decrease of fuel consumption by 5 - 7 %.

In most cases the payback of the investment of an economizer is achieved within a year.



ARTEMIS economizers are pre-mounted to the flue gas chamber which make them easily removable.

Artemis economizers are specially designed for each boiler new or already existing

Supply and Installation of Economizers

- either of our own manufacture or
- from world acknowledged European suppliers



FEED WATER TANKS FOR PARTIAL OR FULL DEAERATION



The life of the steam boiler depends on the quality of the feed water.

The modern technology in feed water tanks is to guide the soft raw water and the condensate to the Deaeration Dom. There through the riddled discs all gases such as O_2 , CO_2 are extracted from the feed water to the atmosphere.

The deaerator dom is studied and designed specially for each boiler house demands. The feed water tank is made from steel or stainless steel and has all the necessary equipment for its operation as well as an electrical panel which controls all the functions. The tank comes on a base frame and is insulated and prewired.



BOILER HOUSE COMPONENTS

STACK



Stack made of carbon or stainless steel with a sophisticated design, that enables taking out the flue gas collecting chamber without cutting or moving the stack.

PRE-ASSEMBLED COMPONENTS FOR STEAM LINES



Steam pressure reducing station in a food processing machinery.

FEED WATER PUMP MODULE



Pre-assembled feed water pump module on base with all necessary equipment:

- steam valve
- non return valve
- filter
- manometer
- spool

BLOW DOWN VESSELS



The drainage water from a steam boiler is of very high temperature and needs to be cooled down to below 45° C before it is dumped to the drainage system.

ARTEMIS has a system made either of steel or stainless steel which decreases the high temperature of this water to the desired level. The system is fully equipped with automatic control and electrical panel.

If the blow down system comes together with the feed water tank the operation of it is controlled by the main electrical panel.

Friendly to the environment!!

INDUSTRIAL/DOMESTIC WATER HEATERS



The water heater can be either horizontal or vertical, with a steam tube bundle.

Insulated together with all necessary equipment:

- Steam regulating system
- Condensate discharge system with
 - steam valve
 - steam filter
 - steam trap
 - flow rate regulation
 - by-pass
- Inlet/Outlet valves of the water.

For more information refer to the special brochure

WATER SOFTENER



The water softening system is very essential for the operation and life duration of the boiler.

That is why the appropriate water softening system has to be studied and selected according to the demands and operating conditions of the boilers.

STEAM DISTRIBUTOR



Steam distributor together with all necessary equipment:

- steam valves
- condensate discharge system with
 - steam valve
 - steam filter
 - steam trap
 - flow rate regulation
 - by-pass

Insulated with their own supports. Can be designed according to the needs of each customer.

OIL PREHEATER



In case of heavy oil, an oil preheater is necessary.

It's a heat exchanger in which a tube bundle or an external jacket with steam, heats heavy oil to the appropriate for each burner temperature.

They are also equipped with electrical resistances.



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