



ARTEMIS

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



INDUSTRIAL / DOMESTIC
WATER HEATERS

Military hospital
Thessaloniki



WATER HEATERS

ARTEMIS boilers are suitable for use in DOMESTIC, COMMERCIAL and INDUSTRIAL applications for production and storage of the domestic hot water.



WATER HEATERS

DOUBLE-WALL WATER HEATERS

SERIES ARTO DB

WATER HEATERS WITH A HEAT EXCHANGER

SERIES ARTO HB

DOUBLE-WALL WATER HEATERS WITH A HEAT EXCHANGER

SERIES ARTO DHB

WATER HEATERS WITH A TWIN HEAT EXCHANGER

SERIES ARTO HHB

TANK IN TANK WATER HEATERS

SERIES ARTO TT

RANGING CAPACITY 500 ÷ 7000 LT

HOT WATER BOILERS WITH WATER HEATER

SERIES ARTO HN

RANGING CAPACITY 50000 ÷ 500000 Kcal/h

Larger sizes available upon request.

Artemis' s Quality standard is ensured by the **ISO 9001 Certification**.

Pressures from 8 to 10 bar ensure that ARTEMIS boilers are suitable for big installations.

Depending on the customer' s needs and the particularities of each installation can be either insulated or not.



Paint cover

Depending on the boiler size can be

- Hot galvanized or
- Cold galvanized

DOUBLE-WALL WATER HEATERS SERIES ARTO DB

The primary fluid circulates in the space between the two cylinders and heats up the DHW which is in the inner tank.

- Special geometry to the edges of the outer tank, according to the latest international specifications.
- Large heat exchange surface.
- All sizes come with an extractable cover.
- Can be supplied either horizontal or vertical.

Ideal for installations with central heating systems also for Industrial use, where hot or **super-heated** primary fluid is used.



WATER HEATERS WITH A HEAT EXCHANGER SERIES ARTO HB

The extractable heat exchanger is a U-shaped bundle of pipes (battery) with heated water or steam passing through it.

The coiled pipe can be made by:

- Steel pipes.
- Cooper pipes.
- Stainless steel pipes.

Ideal for installations where **STEAM** is used as a primary fluid. Depending on the needs of each customer, the appropriate size of the coil is selected.



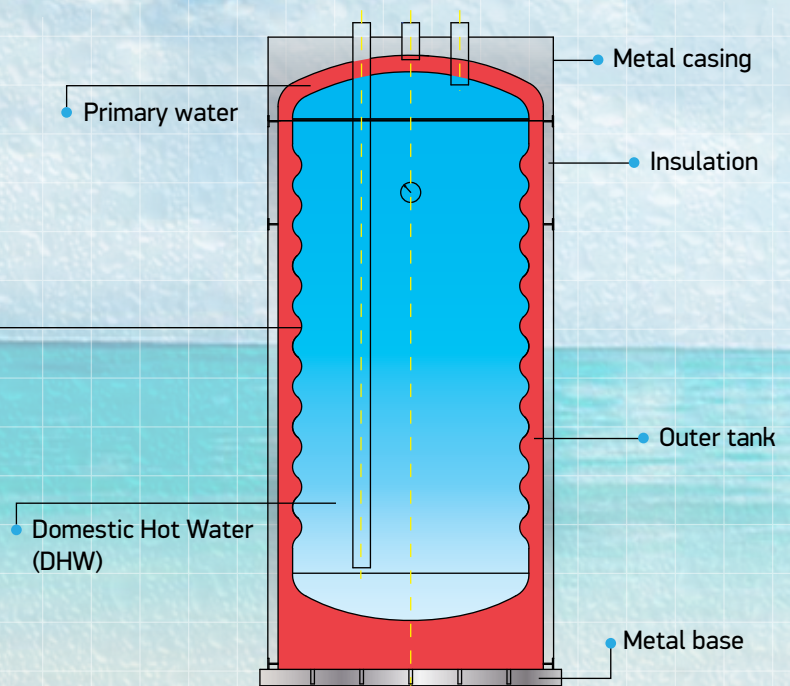
NEW TYPE OF WATER HEATER SERIES ARTO TT

It's the improvement of the DB SERIES.
It's a floor boiler consisting of two tanks. The inner tank in which the DHW is stored, is entirely immersed in the outer tank. The primary water of the heating circuit circulates in the outer tank.

- Corrugated internal stainless steel tank



- Special characteristics of the inner tank:
- Made of stainless steel.
 - The cylindrical section is corrugated along its total length. This process gives two great advantages:
 - Ability to withstand high pressures
 - Prevention of scale build up
 - Large heat exchange surface.



Hot water should not be stored at temperatures below 60 °C to avoid the risk of Legionella.

Due to that special geometry of the inner tank and the way it is "hanged" from the upper bottom the boiler scaling is prevented!!!

DOUBLE-WATER HEATERS WITH A HEAT EXCHANGER - SERIES ARTO DHB

Offer a multiple choice of energy sources (solar, heat pumps, heat recovery systems e.t.c.).

The increased primary volume ensures that all energy from renewable sources is absorbed into the tank.

Increased heating surface for rapid domestic hot water recovery.

Friendly to the environment, due to the minimized fuels use in order to produce DHW.



ARTEMIS TT WATER HEATERS can achieve:

- Fast heat up
- Constant and Immediate energy reserve
- No need for cathode protection

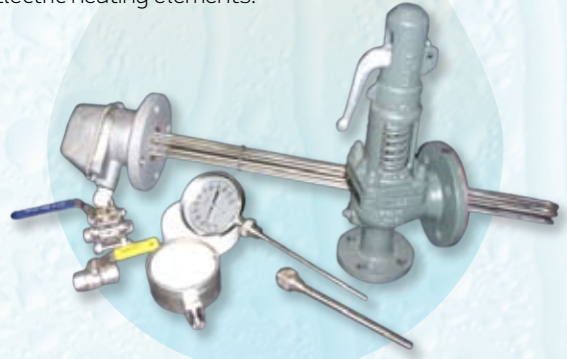
Ideal for installations combined with central heating systems.



Insulation is standard with mineral wool and hot galvanized cover sheets, **coloured in blue**

ACCESSORIES

- Cathode protection through magnesium anode.
- Spare heat exchangers.
- Gaskets for flange plates.
- Thermometers.
- Manometers.
- Safety valves.
- Electric heating elements.



HOT WATER BOILER WITH AN INTEGRATED STAINLESS STEEL WATER HEATER SERIES ARTO HN

It follows the same design with the TT boilers.

A compatible burner is adapted to a steel made combustion chamber. The flue gases pass through fire tubes and heat up the DHW which is inside a stainless steel tank with corrugated walls.

The fact that the DHW tank is "hanged" from the upper bottom prevents the boiler from scaling!!!

A sophisticated design achieves minimum flue gas losses and various special features reduce the fuel consumption.



ARTO HN water heater's top view .





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