

HEATBOX

BUILDING SUBSTATION HEATING SYSTEM



Building Substation Heating System

In district heating systems, central heating systems, offices, residential complexes, campuses, public buildings, factories, and industrial facilities—essentially anywhere heating is required—packaged systems can be used.

Heatbox is a packaged system equipped with various auxiliary components that utilize the energy of hot water in the primary circuit to provide heating and prepare domestic hot water.



Heatbox

Heatbox Series Building Substation Heating Unit

- It is designed to be fully integrated with heating boilers.
- Thanks to gasket-type plate heat exchangers, it is designed to suit every capacity. By keeping the primary circuit fluid separate from the secondary circuit, maximum heat transfer is achieved with minimal pressure loss.
- Equipped with all necessary plumbing components such as pumps, control valves, calorimeters, manometers, thermometers, expansion tanks, air vents, safety valves, and shut-off valves for both the primary and secondary circuits, it is offered with options tailored to customer needs and expectations.

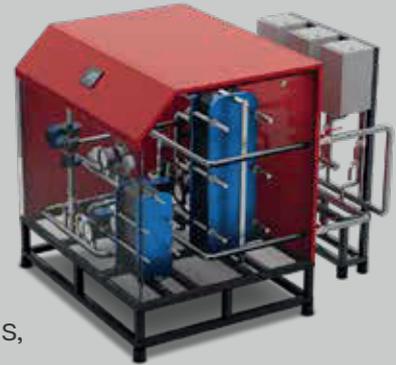
Heating Functions

- **Heating:** The energy from the hot water coming from the primary circuit (boiler or central heating system) is used to heat the water in the secondary circuit through a heating heat exchanger.
- **Domestic Hot Water Heating:** The energy from the hot water coming from the primary circuit (boiler or central heating system) is used to heat the water in the secondary circuit through a heating heat exchanger.

With its high-precision sensors, it accurately measures temperatures to maximize thermal comfort. Thanks to its standardized packaged design, fault detection, maintenance, and spare part replacement are extremely easy and fast.

Optional Features

- Through the automation panel specially designed and developed by TANPERA R&D Center, it can communicate with the building automation center and send operational values.
- With the smart design of the control panel and the heat curve feature, it automatically adjusts consumption temperatures based on outdoor air temperature, ensuring energy efficiency is maintained at the highest level.
- Electrically actuated, pressure-independent balancing valves quickly shut down central heating system lines in case of power outages or malfunctions, providing protection against unwanted high temperatures and pressures.
- Wall-mounted or floor-standing boilers can be integrated into the Heatbox system and offered to the customer as a complete package. It provides heating tailored to needs with different operating modes and programmable operating times. It measures consumption values with MID-certified calorimeters and water meters. Insulation is applied to prevent heat losses.



Since the Heatbox building substation heating unit is produced by our company under factory conditions with all its equipment, it provides the following significant advantages to the customer:

Advantages

- Custom production is carried out for the customer.
- It provides economical heating and domestic hot water production.
- It offers high thermal comfort with minimal temperature fluctuations.
- Assembly and installation on the construction site are easy.
- Since standard equipment is used, spare parts supply is easy, and service is fast and practical.
- Thanks to its compact design, it occupies minimal space.
- Since all boiler room equipment is offered as a single package on one chassis, transportation is easy and cost-effective.
- It provides the customer with a single technical and commercial contact, which facilitates ease of purchase and operation.
- Before starting the production of the Heatbox heating unit, the design of the unit with all the equipment included in it is presented to the customer for approval. In this way, the customer is fully aware of the structure and all technical features of the unit to be purchased in advance, possible misunderstandings, technical deficiencies or inadequacies and unforeseen bad surprises are prevented.
- As the technical design is done by a superior engineering team, the use of incomplete or faulty equipment is avoided.





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