

HEATBOX

BUILDING HEATING SUBSTATION



Building Heating Substation

These packaged systems can be used in district-heating and central-heating applications, offices, residential complexes, developments, campuses, public buildings, factories, and industrial facilities—in short, wherever heating is required.

Heatbox is a packaged system equipped with a wide range of auxiliary components that uses energy from the hot water in the primary circuit to provide space heating and domestic hot water.



Heatbox

Heatbox Series Building Heating Substation

- Designed for full integration with heating boilers.
- Gasketed plate heat exchangers allow the unit to be configured for any required capacity. Maximum heat transfer is achieved with minimal pressure loss, without mixing the fluids in the primary and secondary circuits.
- Both the primary and secondary circuits are equipped with all required system components of suitable technical specifications—including pumps, control valves, heat meters, pressure gauges, thermometers, expansion vessels, air vents, safety valves, and isolation valves. The unit is supplied with options tailored to the customer's needs and expectations.

Heating Functions

- **Space Heating:** Energy from the hot water in the primary circuit (boiler or central heating system) is transferred through the heating heat exchanger to heat the water in the secondary circuit.
- **Domestic Hot Water:** Energy from the hot water in the primary circuit (boiler or central heating system) is transferred through the domestic hot-water heat exchanger to heat the water in the secondary circuit.

High-precision sensors accurately measure temperatures to maximize thermal comfort. Thanks to its standardized packaged design, fault diagnosis, maintenance, and spare-parts replacement are exceptionally easy and fast.

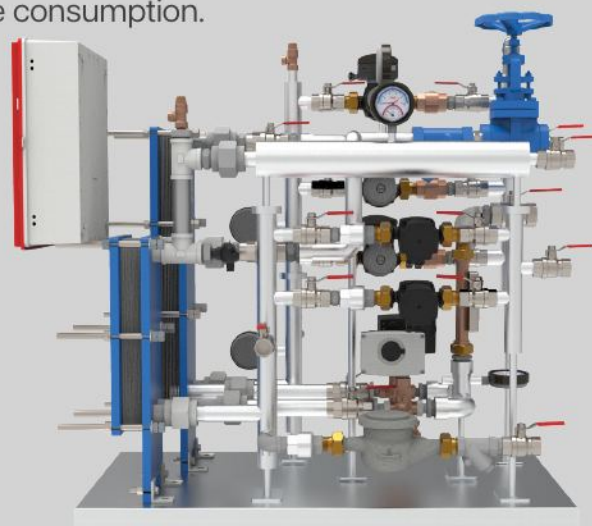
Optional Features

- The automation panel, specially designed and developed by the TANPERA R&D Center, can communicate with the building management system and transmit operating data.
- Thanks to the smart control-panel design and heat-curve function, supply temperatures are automatically adjusted according to the outdoor temperature, maximizing energy efficiency.
- Pressure-independent balancing valves with electric actuators rapidly isolate the central-heating circuits during power failures or faults, protecting the system against unwanted high temperatures and pressures.
- Wall-mounted or floor-standing boilers can be integrated into the Heatbox system and supplied as a complete package. Different operating modes and programmable schedules provide heating tailored to demand. MID-certified heat meters and water meters measure consumption. The unit is insulated to minimize heat loss.

Because the Heatbox building heating substation is manufactured by our company under factory conditions with all its components, it provides the customer with the following key advantages.

Advantages

- Custom manufacturing is available.
- Provides economical space heating and domestic hot water production.
- Delivers high thermal comfort with minimal temperature fluctuations.
- Easy to assemble and install on site.
- The use of standard equipment ensures easy spare-parts availability and fast, practical servicing. Its compact design requires minimal space.
- As all boiler-room equipment is supplied as a packaged unit on a single skid, transportation is easy and cost-effective.
- Provides the customer with a single technical and commercial point of contact, simplifying procurement and operation.
- Before production begins, the Heatbox heating unit is fully designed with all its components and submitted for customer approval. This enables the customer to know the unit's construction and complete technical specifications in advance, preventing misunderstandings, technical deficiencies, inadequate performance, and unforeseen issues.
- Its engineering design is developed by a highly qualified team, preventing the use of missing or incorrect equipment.





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