LUMA AUTOMATIC WATER SUPPLY

SMART WATER CONTROL, RELIABLE PERFORMANCE!

AUTOMATIC WATER SUPPLY

What Is An Automatic Water Supply?

The Tanpera TOSB Series Automatic Water Supply, developed with Tanpera Inc.'s innovative approach, is used in commercial buildings and industrial facilities to maintain a constant water pressure in heating and cooling system installations.

Features

- It continuously monitors the system pressure with a special pressure sensor, automatically detecting pressure drops and water losses in the installation.
- If any pressure drop or water loss is detected, it performs the task of replenishing the water, drawing it from the connected line until the installation reaches the desired pressure. This ensures that the water pressure in your facility's installation is always maintained, preventing damage to the installation or sudden interruptions in energy cycle operational efficiency.
- The water in the heating or cooling system is definitively kept separate from municipal water and is protected by a BA type check valve certified according to European standards, EN 12729.
- Developed by TANPERA R&D Center, the automation system is specifically designed with software and sends information to the building automation center via RS485 protocols (MODBUS).
- Dry contact signal outputs are available. The automatic water supply includes a flow meter (signal output flowmeter) to measure the amount of water fed to the installation and detect any leaks or losses.
- It is used in all heating and cooling systems to maintain the health of installations in all building and industrial applications.

Areas of Application

It used in heating and cooling system for balancing the volume of water that changes due to temperature changes in all builging and industrial applications.

Life Centers
Balances water pressure in residential and mixed-use buildings in major cities. It particularly helps in delivering water at equal pressure to all floors in high-rise buildings.

Social Amenities and Facilities
Ensures the continuous and balanced flow of water in municipal, public housing, and public facilities, protecting infrastructure and enhancing energy efficiency.

Factories and Industrial Facilities
Maintains pressure stability of water used in production processes, ensuring more efficient and safe operation of systems. It also contributes to the protection of steam and hot water systems.

Tourism and Hospitality Facilities
Optimizes hot water use in hotels and resorts, enhancing guest comfort and ensuring efficient system operation.

Shopping Malls
In large shopping centers, it balances the installation pressure for high-capacity heating-cooling systems, providing a comfortable environment and preventing system failures.

Residential Sites and Apartments
In housing projects with central water systems, it ensures uninterrupted and correct pressure distribution, optimizing pump use and providing energy savings.

Dormitories and Boarding Schools
Balances pressure in hot water and heating systems suitable for use by many people, offering a comfortable living space.

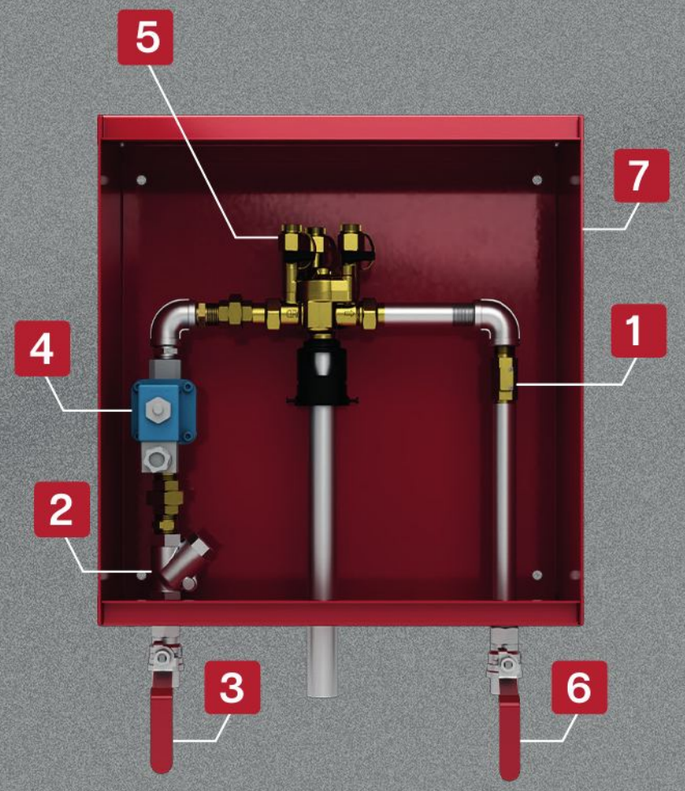
Hospital
In hospitals, where hygiene is critical, it provides pressure control in hot water and sterilization systems, ensuring uninterrupted service.

Automatic Water Supply

It ensures the controlled replenishment of depleted water in heating and cooling systems and brings the system pressure to the required level. All surfaces in contact with water are made from brass or stainless steel.

The installation connection size is R 1/2". It includes manual shut-off valves and a pressure gauge. The system is compactly housed within a plastic panel case and can be wall-mounted.

AUTOMATIC WATER SUPPLY



1. Flowmeter
2. Dirt Trap
3. Ball Valve (To Installation)
4. Solenoid Valve
5. Backflow Preventer Valve
6. Ball Valve (Municipal Water Entry)
7. Panel Case

System Features

- For the Tanpera TOSB Series Automatic Water Supply to function properly, the hydrophore operating pressure must be 1 bar higher than the installation pressure.
- Power supply: 220VAC 50Hz
- The control panel is dust and water-resistant with an IP54 protection rating and is housed within a plastic panel.
- The device continuously monitors the system pressure with its pressure sensor, and in case of a pressure drop, it supplies the necessary water amount via a solenoid valve to restore the system pressure balance.
- To ensure that the water in the heating or cooling system does not mix with municipal water, a BA type backflow preventer valve certified according to European standards, EN 12729, is used.
- The automatic water feeding system includes a flow meter (signal output flowmeter) to measure the amount of water fed to the installation and detect any leaks or losses.
- The system sends information to the building automation center via RS485 communication protocols (MODBUS). Dry contact signal outputs are also available.
- The device, designed and programmed by the Tanpera R&D Center, offers the user a comfortable operation with a 4.3-inch HD touchscreen.

It provides controlled operation options (Manual-Stop-Auto) for the user.

AUTOMATIC WATER SUPPLY

By effective heat transfer between the blood coming from its heart at 40°C and the blood returning from its feet at 1°C, it can stay in cold water for a long time without freezing. Using these natural principles, we design our engineering marvel heat exchangers.

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