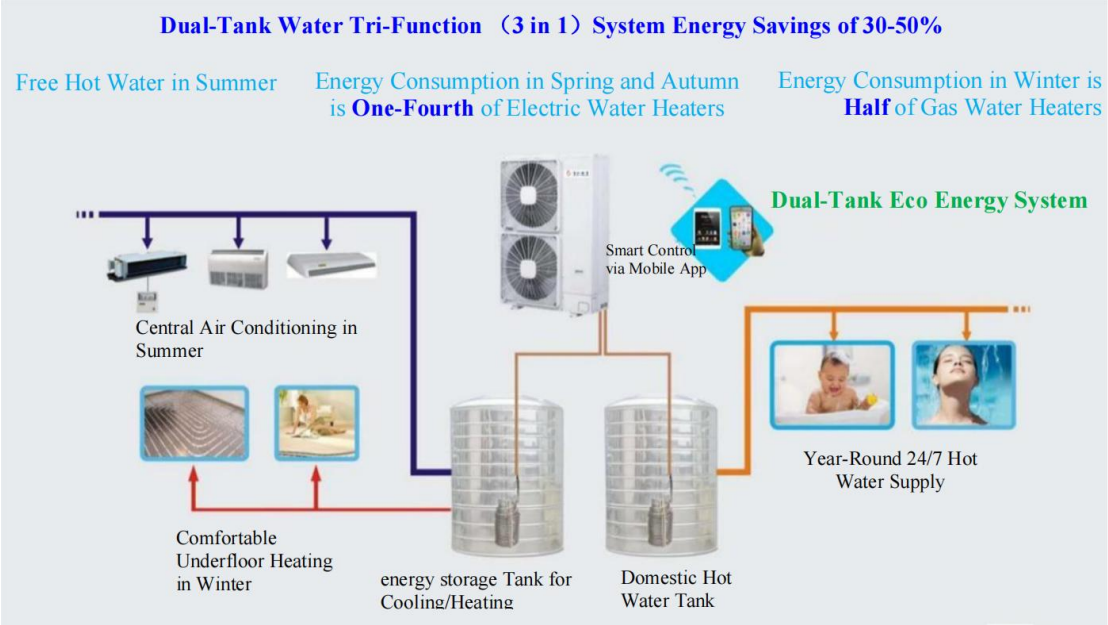
Two-Barrel Water Three-in-One (Cooling, Heating, Hot Water)

Efficient and Comfortable Energy System



Value of the Two-Barrel Water Energy Storage System:

The Two-Barrel Water Three-in-One system adopts the energy-saving characteristics of multi-connected fluorine medium (Freon) systems, such as distributed and layered zoning. However, it overcomes several drawbacks associated with traditional fluorine systems:

1.Safety and Health:

★**Freon Systems**: High-pressure, long-piping Freon systems can often lead to leaks, causing indoor air pollution and respiratory health risks.

★**Two-Barrel Water System**: Utilizes low-pressure water medium circulation with temperature difference heat exchange control, ensuring no sudden temperature changes, balanced air molecule temperature distribution, and higher comfort.

2.Fire Safety:

Freon Systems: In case of fire, Freon leaks can produce highly toxic substances under high temperatures, posing significant risks to human safety.

Two-Barrel Water System: The water medium system poses no fire hazard and can aid in fire suppression, increasing escape chances.

3.System Maintenance and Efficiency:

The water medium system uses an energy storage water tank to isolate the main unit from indoor circulation. This design allows for the release of air bubbles and sediment collection, reducing the likelihood of system failures due to air bubbles or impurities in the pipes.

The heat pump modules use an immersion water-fluorine heat exchanger, reducing scaling and maintaining high heat exchange efficiency.

4.Cost Efficiency:

The energy storage water tank can store energy during off-peak hours and release it during peak hours, significantly lowering operating costs. The system also performs more efficiently in cooler nighttime temperatures, enhancing cost savings.

5.All-Season Hot Water Supply:

The system provides hot water throughout the year, greatly improving the user's quality of life.

6.Defrosting Efficiency:

The heat pump adopts a rotation defrosting mode, ensuring efficient defrosting and stable heating during winter, which is superior to traditional Freon systems.

7.Environmental Integration:

The system can be integrated with distributed photovoltaic power generation, micro-wind power generation, and high-level water tank energy storage, offering a versatile and eco-friendly energy solution.

8.Survival Benefits:

In the event of natural disasters or power outages, the water stored in the system significantly enhances survival chances, making it a wise and beneficial choice.

Key Components and Technology:

- **Compressor**: The heat pump unit uses high-efficiency Daikin compressors from Japan.
- **Functionality**: Provides cooling in summer, stable heating in winter, and consistent, ample hot water supply, all while significantly reducing operating costs and ensuring system reliability without frequent faults.

By choosing the Two-Barrel Water Three-in-One system, users gain a sophisticated and reliable energy solution, tailored to meet various seasonal and operational demands with high efficiency and safety. This system represents a smart choice for those looking to invest in a sustainable and cost-effective energy solution.