

Thermal Store

Thermal Storage Mains Pressure Hot Water System

How does a thermal store work?



Thermal Store cylinders work in the opposite way to a conventional system. The storage cylinder that contains the Primary water is fed by the Feed & Expansion tank and heated by either a boiler or immersion heaters.

Mains pressure cold water passes through a specially designed Heat Exchanger, which draws its heat from the thermal store. This water passes through a thermostatic mixing valve where it is blended to the required temperature and supplies the hot outlets throughout the house.

Additionally, when heated by a boiler, the THERMflow can use its thermal store of hot water for an almost instantaneous response when the space heating is required.

Advantages of a Thermal Store

- 'Vented' mains pressure hot water
- No shower pump required
- Instant response to space heating demand
- Energy efficient due to reduced boiler cycling
- Flexibility of siting
- No attic pipes to freeze
- Easy to install
- No head problems
- Low maintenance costs
- Flow rates more than double that of most combi boilers
- Ideal for use in multi boiler and multi fuel applications



Thermal stores are becoming an increasingly popular solution for hot water cylinders, not only because of its ability to deliver mains pressure hot water with limited maintenance implications, but also its ability to handle multi-fuel and renewable energy installations.