

Thermal Store for Wood Pellet Boilers

With Domestic Hot Water via Plate Heat Exchanger

Inputs: Wood Pellet Boiler and Backup Electric
Outputs: DHW (via PHE) and Central Heating

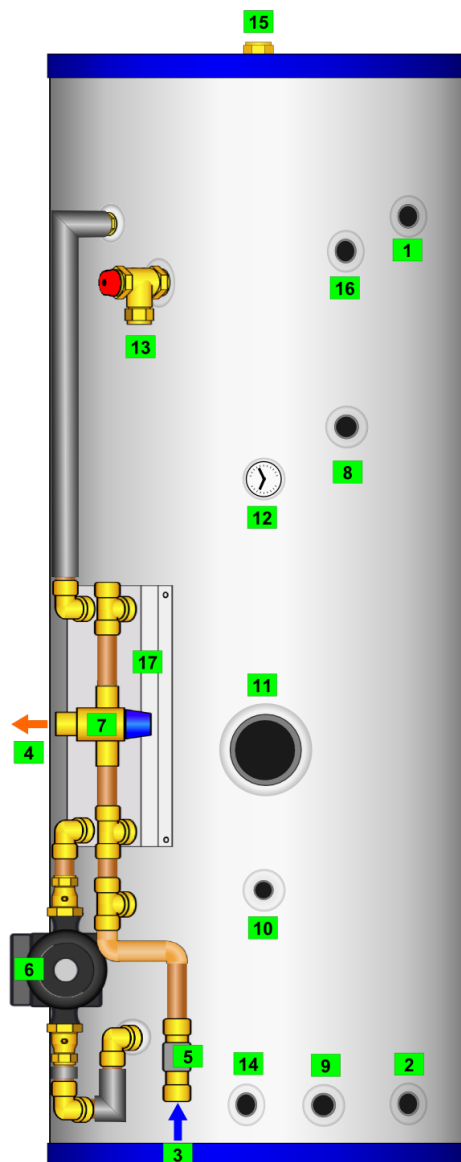
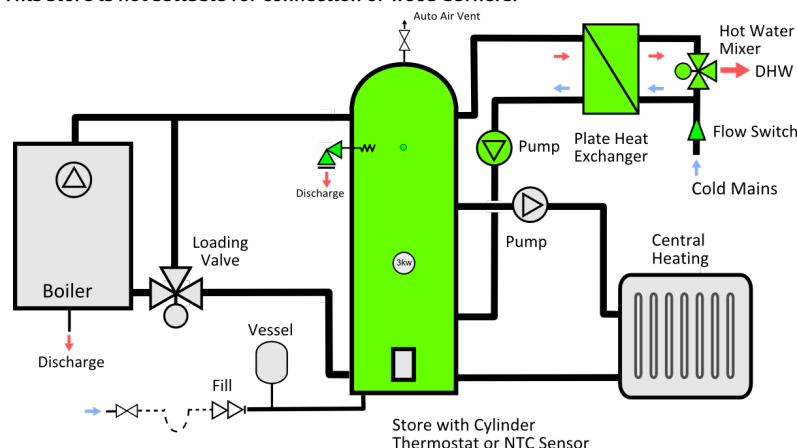
- Stainless Steel Thermal Store
- 130 to 500 litre Capacities with Slimline options
- Connections for Direct Boiler Input
- Connections for Central Heating circuit
- DHW generated using plate heat exchanger - up to 35 litres/min
- DHW Thermostatic Mixing Valve fitted
- Immersion Heater Boss
- Pressure and Temperature Relief Valve

This system is designed to work in conjunction with a wood pellet boiler. The system includes a plate heat exchanger assembly to generate mains pressure hot water, fitted with thermostatic mixing valve to control output temperatures.

A circulation pump and loading valve must be fitted as close as possible to the wood pellet boiler, inline with manufacturers recommendations. Contact Thermal Integration for prices.

It is assumed that the system will be pressurised and as such the store is fitted with a pressure and temperature relief valve. It is also assumed that expansion relief is provided by the pressure relief valve fitted within the pellet boiler, the filling loop is fitted separately (or in the boiler), and an additional expansion vessel may be required to cope with total system volume.

This store is not suitable for connection of wood burners.



Key to Parts:

1. Flow from Boiler
2. Return to Boiler
3. Cold Mains Input
4. DHW Hot Out
5. Flow Switch
6. Plate Heat Exchanger Pump
7. DHW Thermostatic Mixing Valve
8. Flow to Central Heating
9. Return from Central Heating
10. Cylinder Thermostat or NTC Sensor Connection
11. Immersion Heater Boss, 2.1/4" Female
12. Temperature and Pressure Gauge
13. Temperature and Pressure Discharge
14. Cold Fill and Expansion Vessel Connection
15. Air Vent Connection
16. Connection for Overheat Stat
17. Plate Heat Exchanger

Part Code	Capacity	Cylinder Diameter	Casing Diameter	Height
DS-165-3	165 litres	450mm	535mm	1200mm
DS-220-3	220 litres	450mm	535mm	1500mm
DS-247-3	247 litres	450mm	535mm	1800mm
DS-300-3	300 litres	500mm	560mm	1800mm
DS-390-3	390 litres	600mm	660mm	1500mm
DS-500-3	500 litres	600mm	660mm	1835mm
DS-750-3	750 litres	750mm	900mm	1970mm
DS-1000-3	1000 litres	850mm	1000mm	2015mm
X2009-16J	3kW Immersion Heater			
X2009-NTC	NTC Cylinder Sensor			
X2009-8P	Cylinder Thermostat			
X2009-11A	Standard Pump for Towel Rail or Radiator Circuit			
UFH	Flow and Return Tappings for Underfloor Heating Circuit			

 INCLUDED AS STANDARD