

# MULTIFLOW

THERMAL STORE RANGE  
FOR THE CONTRACT MARKET



McDonald  
Water Storage

Hot Water Storage Solutions

Our new MULTIflow thermal store range is specifically designed for the contract market, to provide a high performance, mains pressure hot water solution which delivers enormous benefits.

Our thermal store approach can suit multiple installation applications, including electric, boiler or central plant inputs to meet hot water demand. With our unique design and manufacturing solution, we can offer significant cost savings both during installation and ongoing running costs.

Discover The Benefits of a **MULTIflow** Thermal Store

- No costly pumps and electronic controls required - providing piping hot water even during a power outage
- Delivers mains pressure hot water with scald protection and inherent safety of an open vented system
- Flexibility with models to incorporate an open vented, sealed or central plant boiler
- No discharge pipework – flexibility for installation position
- Fit and forget solution – with no G3 certification required
- Being copper provides complete peace of mind, killing 99% of bacteria and no risk of Legionella as the hot water is instantaneously heated

## WHY MULTIFLOW

Manufactured from premium grade copper, our MULTIflow mains pressure hot water system delivers unrivalled performance thanks, in part, to copper's superior thermal transfer properties.

One of our key advantages is the extra long finned copper coil which we incorporate into every MULTIflow cylinder. This ensures greater flow rates, improves efficiency and reduces ongoing costs.

This means our MULTIflow thermal store cylinder is designed to achieve a consistently high water temperature due to a combination of our unique design and copper's increased efficiency.

# MULTIFLOW

## CONTENTS

<b>MULTIflow compatible with Open Vented Boiler</b>	<b>3</b>
<b>MULTIflow compatible with Sealed Boiler or Central Plant Boiler</b>	<b>4</b>

# MULTIFLOW



## Open Vented Boiler Compatible

The MULTIflow is a direct thermal store, but with the additional flexibility to incorporate an open vented boiler, to provide mains pressure hot water.

This multi-application thermal store can be used with an open vented boiler and/or off-peak electricity to aggregate the supply to heat the store, and provide domestic hot water when it is required, keeping running costs for the householder down to a minimum.

Being open vented it is inherently safe, and therefore does not require any discharge pipework associated with unvented cylinders, which can prove problematic in apartment installations.

The design of the MULTIflow also means there is no requirement for costly pumps or additional electronic controls to produce the hot water.

## COMPONENTS

- |                                |                                      |
|--------------------------------|--------------------------------------|
| 1. Feed and Expansion Tank     | 8. Boiler Flow                       |
| 2. Hot Draw Out (c/w TMV)      | 9. Boiler Return                     |
| 3. Expansion Chamber           | 10. Boiler Control Thermostat Pocket |
| 4. Cold Mains In               | 11. Open Vent                        |
| 5. Top (On Peak) Immersion     | 12. Cold Feed                        |
| 6. Bottom (Off Peak) Immersion |                                      |
| 7. Drain                       |                                      |

## KEY BENEFITS

- Compatible with open vented boiler
- Maximises the benefit of off-peak electricity supply
- No discharge pipework
- No annual maintenance
- No G3 certification required for installation

## All Units to Following Specification:

- Manual Fill Feed and Expansion Tank (Optional automatic fill kit available at the time of order)
- 22mm DHW Coil & Mixing Valve
- 22mm Flow & Return for Vented Boiler
- 3kW LWD Immersion Heaters (inc. thermostats) Fitted
- 1 Boiler Control Thermostat Pocket

STORAGE CAPACITY	120	150	180	210
Model No.	TMF1200V	TMF1500V	TMF1800V	TMF2100V
ERP Class	C	C	C	C
Standing Heat Loss (watts)	56	68	77	87
Height	1000	1200	1400	1600
Width	560	560	560	560
Depth	605	605	605	605
Bedrooms	1	1-2	2-3	2-3
Baths & Showers	1	1	2	3

If F&E tank sited on top of the unit, add 300mm to height

**SUITABLE FOR USE WITH  
OFF PEAK ELECTRICITY  
AND OPEN VENTED  
BOILERS**

# MULTIFLOW



## Sealed/Central Plant Boiler Compatible

The MULTIflow is an indirect thermal store, with the flexibility to incorporate a sealed boiler or central plant boiler, to provide mains pressure hot water.

This multi-application thermal store can be used with a sealed or central plant boiler and/or off-peak electricity to aggregate the supply to heat the store, keeping running costs for the householder down to a minimum.

Being open vented, the store does not require any discharge pipework associated with unvented cylinders, and the design of the MULTIflow also means there is no requirement for costly pumps or additional electronics.

Where utilised in central plant applications, it provides additional benefits including;

- enable central plant to be turned off in summer months
- immersion back up if central boiler fails

### KEY BENEFITS

- Compatible with sealed system or central plant boiler
- Maximises the benefit of off-peak electricity supply
- No discharge pipework
- No annual maintenance
- No G3 certification required for installation

### All Units to Following Specification:

- Manual Fill Feed and Expansion Tank (Optional automatic fill kit available at the time of order)
- 22mm DHW Coil & Mixing Valve
- 22mm Flow & Return for Sealed System or Central Plant Boiler
- 3kW LWD Immersion Heater (inc. thermostats) Fitted
- 1 Boiler Control Thermostat

### COMPONENTS

- |                                |                               |
|--------------------------------|-------------------------------|
| 1. Feed and Expansion Tank     | 8. Boiler Flow                |
| 2. Hot Draw Out (c/w TMV)      | 9. Boiler Return              |
| 3. Expansion Chamber           | 10. Boiler Control Thermostat |
| 4. Cold Mains In               | 11. Open Vent                 |
| 6. Bottom (Off Peak) Immersion | 12. Cold Feed                 |
| 7. Drain                       |                               |

STORAGE CAPACITY	120	150	180	210
Model No.	TMF120SB	TMF150SB	TMF180SB	TMF210SB
ERP Class	C	C	C	C
Standing Heat Loss (watts)	56	68	77	87
Height	1000	1200	1400	1600
Width	560	560	560	560
Depth	605	605	605	605
Bedrooms	1	1-2	2-3	2-3
Baths & Showers	1	1	2	3

If F&E tank sited on top of the unit, add 300mm to height

**SUITABLE FOR USE WITH OFF PEAK ELECTRICITY AND SEALED SYSTEM OR CENTRAL PLANT BOILERS**



**McDonald**  
Water Storage

QUEENSWAY INDUSTRIAL ESTATE | GLENROTHES | FIFE | KY7 5QF  
T: 01592 611123 | F: 01592 611166 | E: sales@mcdonaldwaterstorage.com

[www.mcdonaldwaterstorage.com](http://www.mcdonaldwaterstorage.com)

