



MULTIflow

THERMAL STORAGE SYSTEM

Specifications

Nominal Capacity (litres)	120	150	180	210
Shell Height (mm)	925	1125	1325	1525
Shell Diameter (mm)	450	450	450	450
Case Height (mm)	1000	1200	1400	1600
Case Width (mm)	560	560	560	560
Case Depth (mm)	605	605	605	605
Insulation Thickness (mm)	50	50	50	50
Immersion heater rating (kW)	3	3	3	3
Weight empty (kg)	43	54	65	76
Weight full (kg)	163	204	245	286

Technical Specifications

Maximum incoming pressure to pressure reducing valve if supplied	12 Bar
Minimum recommended supply pressure and flow rate	1.5 Bar and 20 litres per minute
Maximum recommended incoming pressure	3.0 Bar
Material	Copper
Insulation material (nominal thickness 50mm)	CFC/HCFC free, fire retardant expanded polyurethane foam ZERO ozone depletion potential (ODP) Global warming potential (GWP) = 3.1. Cased Units 1.0.
Immersion heater/s	3kW at 240V
Connections (standard)	22mm compression
Domestic hot water expansion	Factory fitted expansion bottle

ERP / Heat Loss Data

Capacity (litres)	120	150	180	210
Insulation Thickness (mm)	50	50	50	50
Standing loss (W)	49	57	65	69
Standing loss (kWh/24h)	1.18	1.37	1.56	1.66
Water heating energy efficiency class	C	C	C	C

Components

The following components are supplied as standard with MULTIflow

Immersion/s	Low Watts Density Immersion heater/s with combined control/limit stat
Safety	Thermostatic Mixing Valve (BS EN15092), Temp. range = 45 to 65°C Factory fitted expansion pipework (Combination units)

Codes of Practice/Legislation

Legislation

- Building Regulations Part G and Part L
- Scottish Building Standards: Section 4 and Section 6.
- Building Regulations (Northern Ireland): Part F1, F2 & P
- Water Supply (Water Fittings) Scotland Byelaws 2014
- The Water Supply (Water Fittings) Regulations 1999
- The Water Supply (Water Fittings) Regulations (Northern Ireland) 2009

Standards

- HWA Performance Specification for Thermal Stores

Materials chosen, adhering to:

- BS 2871-1:1971 "Specification for copper and copper alloys. Tubes. Copper tubes for water, gas and sanitation."
- BS EN 1057:2006 + A1:2010 "Copper and copper alloys. Seamless, round copper tubes for water and gas in sanitary and heating applications."
- BS EN 1254:1998 (1 - 5) "Copper and copper alloys. Plumbing fittings."

Factory manufactured, adhering to:

- BS EN ISO 9001:2015 "Quality management systems. Requirements."

ERP Regulations:

- Commission Delegated Regulation (EU) No 812/2013



Brian Patrick

Production Manager
McDonald Water Storage



McDonald Water Storage Hot Water Storage Solutions

Queensway Industrial Estate, Glenrothes, Fife, KY7 5QF

T: 01592 611123

F: 01592 611166

E: sales@mcdonaldwaterstorage.com

www.mcdonaldwaterstorage.com