



# THERMflow

## THERMAL STORAGE SYSTEM

### Specifications

Nominal Capacity (litres)	120	140	180	210	250	300
Dimensions Cylinders (mm)	960 x 570	1120 x 570	1360 x 570	1560 x 570	1870 x 590	1870 x 640
Dimensions Combination (mm)	1130 x 570	1250 x 570	1500 x 570	1700 x 570	1700 x 640	2050 x 640
Insulation Thickness (mm)	60	60	60	60	70	70
Immersion heater rating (kW)	3	3	3	3	3	3
Weight empty (kg)	35	39	50	59	68	82
Weight full (kg)	155	179	230	269	318	382

### 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 60mm)	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. Solid Fuel 28mm compression
Domestic hot water expansion	Factory fitted expansion bottle 2L Expansion Vessel on larger models

### ERP and Heat Loss Data

Capacity (litres)		120	140	180	210	250*	300*
60mm Foam Lagged (*250 & 300 – 70mm)	Standing loss (W)	68	72	80	85	92	98
	Standing loss (kWh/24h)	1.63	1.73	1.92	2.04	2.21	2.35
	Water heating energy efficiency class	C	C	C	C	C	C
60mm White Cased	Standing loss (W)	62	66	73	78	85	94
	Standing loss (kWh/24h)	1.49	1.58	1.75	1.87	2.04	2.26
	Water heating energy efficiency class	C	C	C	C	C	C
100mm Foam Lagged	Standing loss (W)	37	39	44	46	51	56
	Standing loss (kWh/24h)	0.89	0.94	1.06	1.1	1.22	1.34
	Water heating energy efficiency class	A	A	B	B	B	B

Other Insulation thicknesses are available.

### Components

The following components are supplied as standard with THERMflow

Immersion/s	Low Watts Density Immersion heater/s with combined control/limit stat
Cold Water	22mm Y Strainer 22mm Check Valve
Safety	Thermostatic Mixing Valve (BS EN15092), Temp. range = 45 to 65°C Control Thermostat and Overheat Stat for Solid Fuel Models 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 9001:2008 "Quality management systems. Requirements."



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