



# CUBEflow Thermal Store

## RECTANGULAR COPPER HOT WATER TANK

### Specifications

Nominal Capacity (litres)	100	150	210	250	300
Width (mm)	495	495	585	615	640
Depth (mm)	570	525	570	615	640
Height (mm)	865	1285	1285	1285	1285
Insulation Thickness (mm)	50	50	50	50	50
Immersion heater rating (kW)	3	3	3	3	3
Weight empty (kg)	48	58	62	71	76
Weight full (kg)	148	208	272	321	376

### Technical Specifications

Maximum incoming pressure to pressure reducing valve if supplied	12 Bar
Minimum recommended supply pressure and flow rate	1.0 Bar and 20 litres per minute
Maximum recommended incoming pressure	2.1 Bar
Material	Copper
Insulation material (nominal thickness 60mm)	CFC/HCFC free, fire retardant expanded polyurethane foam with zero ozone depletion Global warming potential (GWP) = 1.0
Immersion heater/s	3kW at 240V
Connections (standard)	22mm compression. Solid Fuel 28mm compressions
Domestic hot water expansion	Factory fitted expansion bottle Integrated Header Tank

### ERP / Heat Loss Data (Indirect)

Capacity (litres)	100	150	210	250	300
Insulation Thickness (mm)	50	50	50	50	50
Standing loss (W)	59	68	78	85	94
Standing loss (kWh/24h)	1.42	1.63	1.87	2.04	2.26
Water heating energy efficiency class	C	C	C	C	C

Other Insulation thicknesses are available.

### ERP Data (Direct Units)

Capacity (litres)	100	150	210	250	300
Water heating energy efficiency class	C	C	C	C	C
Load Profile	M	M	L	L	L
Annual Elec. Consumption (kWh/annum)	1489	1974	2813	3172	3374
Annual Elec. Consumption (GJ/annum)	5	8	10	10	11
Sound Level (dB)	15	15	15	15	15

### Components

The following components are supplied as standard with CUBEflow Thermal Store

Immersion/s	Low Watts Density Immersion heater/s with combined control/limit stat
Cold Water	15mm Ballvalve + Float 22mm Y Strainer
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

## 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."

### ERP Regulations:

- Commission Delegated Regulation (EU) No 812/2013



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