

**THE ORIGINAL RETROFIT GRAVITY PRIMARY CIRCULATION HOT WATER STORAGE UNIT**

The Sapphire is an indirectly heated combination hot water storage unit providing gravity domestic hot water and can be installed at high level in a cupboard or in a roof space. By incorporating both the secondary water feed cistern, and the primary feed and expansion tank in one compact unit, it provides a cost-effective alternative to inefficient, old-fashioned tanks and cylinders.

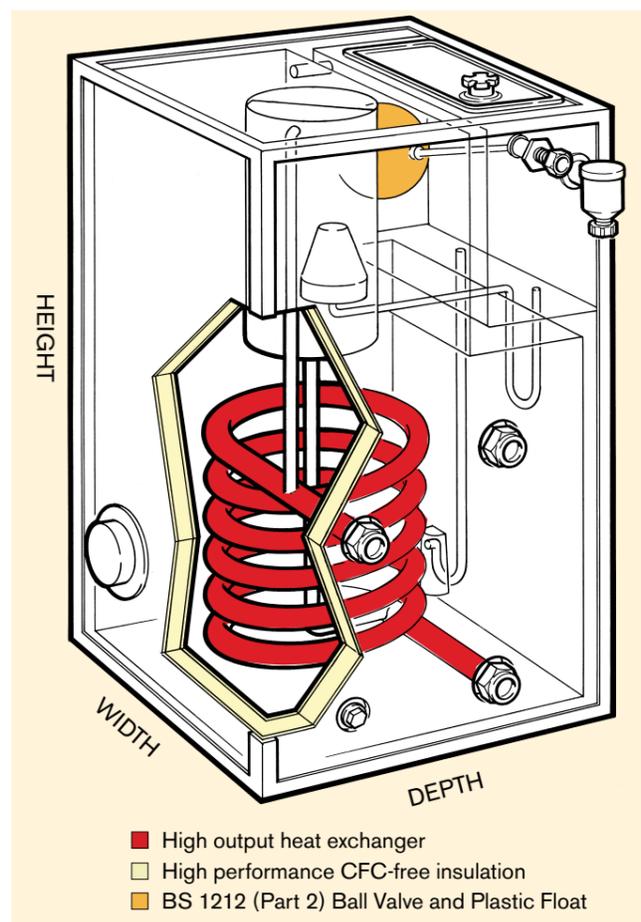
Through its design and HCFC-free insulation properties, significant saving can be made in installation time and energy costs.

Suitable for installation in a roof void, which frees cupboard space for storage, it can also be installed at high level in a cupboard, providing storage space beneath and a dry roof space.

**ELSON SAPPHIRE INDIRECT HOT WATER STORAGE UNIT**

This unit incorporates secondary water feed cistern and primary feed & expansion tank in one compact unit. The primary flow and return connection and/or the hot water draw off connection can be fitted on the base or side of the unit. As a result, the Sapphire is immensely popular with local authorities as a low-cost alternative to tank and cylinder installations.

**NOTE** This product is suitable for open vented gravity primary systems only. Ideal for solid fuel.



<b>OPTIONS &amp; EXTRAS</b>
CE MARKED SUPERLOY 11" IMMERSION HEATERS AND THERMOSTATS - FACTORY FITTED
LOCKSHIELD DRAIN COCK TO BS2879-2
PURPOSE-MADE STAND WITH SLATTED TIMBER SHELVING
A HIGHER OUTPUT COIL IS AVAILABLE TO MEET SPECIFIC REQUIREMENTS
28MM HOT AND/OR COLD WATER DRAW OFF CONNECTIONS
ADDITIONAL HOT WATER DRAW OFF CONNECTION
ADDITIONAL HEATER BOSS
HOT WATER RETURN CONNECTION
"SHOWERPLUS" FOR MAINS PRESSURE SHOWERING (PLEASE REFER TO THE LEAFLET FOR FURTHER INFORMATION)



<b>CAPACITIES</b>
115, 135, 160, 180 Litres
<b>HEAT SOURCE</b>
Gas, Oil or Solid fuel boiler
<b>HOT WATER DRAW OFF CONNECTION</b>
22mm BS compression
<b>KITEMARK</b>
BS 3198:1981
<b>BALL VALVE CLEARANCE</b>
225mm clearance is required between the top of the unit & ceiling for access to the ball valve
<b>BALL VALVES</b>
BS 1212 (part 2) Ball valve and float



- The Sapphire can be manufactured to suit limited space applications or where restricted access may be a problem.
- The BS 3198 Kitemark is applicable to all the above capacities. Please note that the Sapphire cannot be modified for a pumped primary system.

**APPLICATION GUIDE**

Capacity Litres	Width mm	Depth mm	Height mm	Full Weight kilos	Max Daily Heat Loss	Application Guide
115	535	540	840	155	1.10 K.W.H.	1-2 persons
135	535	605	840	175	1.30 K.W.H.	3-4 persons
160	535	705	840	214	1.54 K.W.H.	4-5 persons
180	535	760	840	229	1.73 K.W.H.	5-6 persons

The above application guide is for general guidance only. Heat loss figures exceed the requirements of BS 3198:1981