

Stratification Control

The Smart Hot Water controller brings together techniques to save as much energy and money as is possible and practical with your hot water cylinder.

An important part of this management is stratification control;

Within the same hot water cylinder it is possible to have both hot and cooler water. The hot water will sit on top of the cooler water without it mixing.

Cold water enters into the bottom of the cylinder and rises as a layer while hot water is drawn off the top. Traditional style heating of the water will decrease and eventually destroy this stratification, unless you have a Smart Controller which will manage this heating to your advantage.

The Smart Controller knows where this stratification line is (the technical term is a thermocline), and to what degree the different water volumes might need heating to be useful for you. Only when absolutely necessary will it heat, and not before and even then use just enough energy to ensure you never run of hot water. No waste

This way a lot less heat (and money) is lost through the cylinder walls compared to keeping fully heated water in the entire cylinder. This can be quite substantial as testimonials from our customers confirm.

There are other methods of using stratification control with a Smart Controller for even greater savings if you are using, or intend to use, special energy sources such as a solar electric system, hot water heat pumps or night rate power. Discuss with one of our representatives how our versatile Smart Controller can best be configured for your future proof hot water system.

