

CASSAVERDE

Cassaverde means 'Green house' and we chose the name to convey our motivation when designing and building central heating systems. Energy efficiency has always been our concern and now, when energy prices are ever increasing, getting the most out of whatever fuel we use becomes a very high priority. Of course we are under obligation to reduce our output of Green House Gasses and there is some pressure to reduce energy consumption by house holders (and we are doing this) but many wasteful systems exist and continue to be installed. The first step should be to consume only what we need, consume our fuel as completely as possible and apply the heat gained as effectively as possible. This means best practice for installations (e.g. zoning areas of a dwelling) and full heating controls (e.g. programmable thermostats).

The Cassaverde Cylinder is an interface, designed to maximise boiler output but utilise the heat as efficiently as possible. It can be coupled to any type of boiler, be vented or unvented, will produce mains pressure hot water at a blended temperature of 45* and supply reduced flow temperature water to radiator circuits or underfloor heating. This method was developed as a result of years of practical application by us and is now routinely installed by our teams.

We now have an Electrical version of the Cassaverde Cylinder. Measuring .500mm diameter by 1.6m. high, it can deliver mains pressure hot water at a blended temperature of 45* and run 8 radiators, approx. 40,000 btu.. The total electrical demand is 12kw, 3kw for domestic hot water and up to 9kw for central heating, but the system self adjusts and only uses what it needs at any time. It uses 'on peak' rates of electricity which are actually cheaper overall since the system produces heat on demand to suit the user's life style. In addition to this, we recommend and install Honeywell CM Zone control packs which allow a dwelling to be sectioned into 2 or more separately time/temperature controlled areas. This means that householders can be comfortable in the rooms they are occupying but do not have to heat the rooms they are not in at that time and this is achieved electronically not mechanically.

Heat where you want it, when you want it and how much you want leads to economical running of a system by minimising waste and the 'Cassaverde' system maximises boiler output and allows smaller boilers to be installed, saving energy and costs.

REASONS TO BE CHEERFUL



Bob Reason stands proudly before his Sandyford range cooker. This neat little installation fits snugly into his country cottage home but it doesn't just cook. Concealed in a cupboard nearby is a Cassaverde cylinder along with manifolds and mixers, pumps and pipes which combine to supply 2 radiator circuits, 2 under floor heating circuits and endless mains

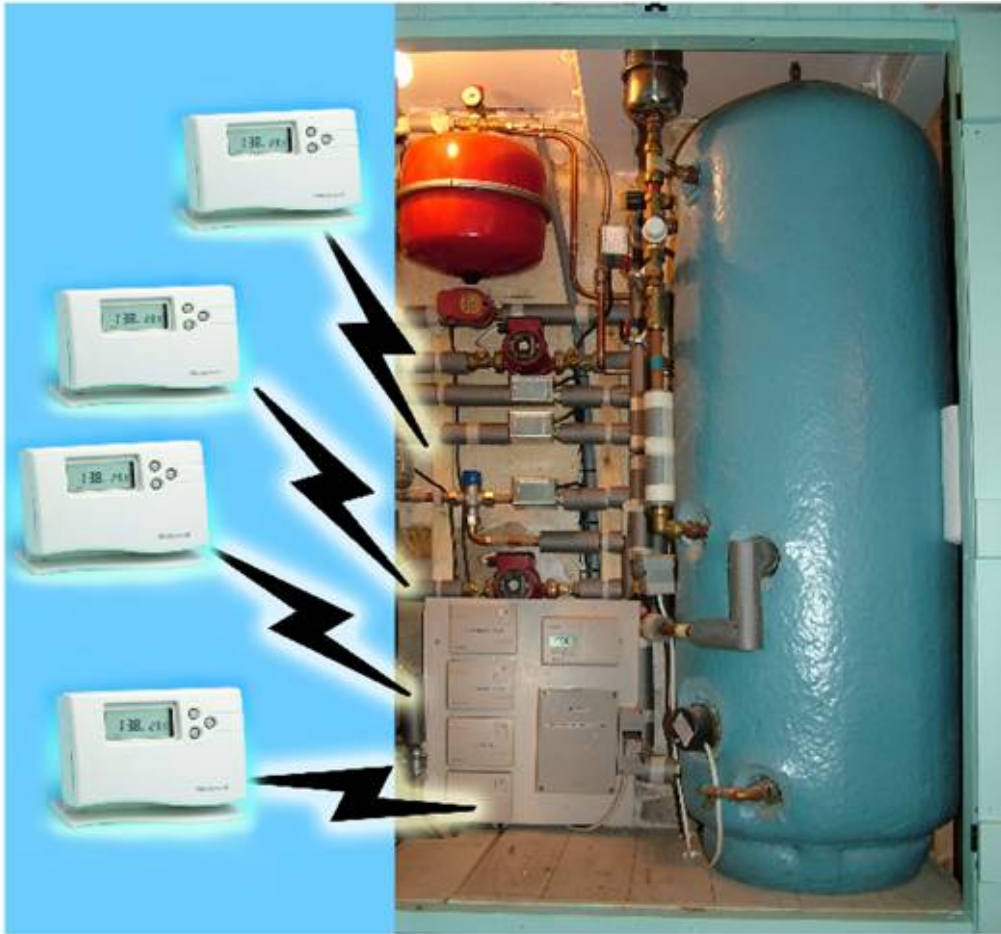
pressure hot water, all on demand and Bob doesn't have to lift a finger.

Honeywell CM67 programmable thermostats tailor the heating demand to the house holders life style so that the home is always comfortable when they need it to be but not wastefully heated when they are not around.

Marion Reason appreciates the controlled temperature output of the hot water which not only saves water but prevents scalding.



REASONS TO BE CHEERFUL PART 2



This is a view of the Cassaverde cylinder along with the pumps and valves necessary to control the system. Shown too are the Honeywell CM67 receivers and a Honeywell ST 6400 twin channel timer which controls Domestic Hot Water and Cooking. The picture also shows the programmable thermostat room units which are radio linked to their receivers in the control cupboard.

These installations are designed and built to meet the needs of individual customers, hence we like to use the term 'bespoke' to describe our work.

All Pictures courtesy of Royer Slater (Wordsmart Ltd.)