

ULTRASTEEL HE

Mains Pressure Unvented Cylinders

Blueprint for success...

Copperform is now the largest manufacturer of cylinders in the UK and has used the same blueprint for its success in the development and production of its new stainless steel unvented range of cylinders.

They are designed specifically for the UK market made from high quality 'Duplex' stainless steel, backed by a fully transferable 25 year guarantee.

What is mains pressure?

These units allow you to connect the Ultrasteel HE directly to the mains via the safety valves provided. This allows you to have power showers without the need for noisy shower pumps and means no cold water cistern tanks are required in the loft.

Ease of installation

The unit comes with a full, easy-to-follow fitting instruction booklet and all the components you will need. All the connections are at the front of the unit within a 90° arc. The unit can be sited almost anywhere, including the garage. This gives you the added advantage of 100% usable hot water and means that possibly a smaller sized unit can be used to achieve the required literage.

Duplex stainless steel for ultimate peace of mind

The Ultrasteel HE is manufactured from highest quality Duplex stainless steel. Care must be taken not to confuse this high performance metal with the inferior grades employed by some of our competitors. This type of steel is far more resistant to corrosion than glass lined models and therefore offers a much longer life. Consequently, no anode is required. Duplex stainless steel provides for a much lighter and easier to handle unit.

High flow rated controls deal with multiple hot water applications

Our standard valves offer exceptional flow rates and deal with most domestic applications. Larger valve options are also available for industrial and commercial use by special order.

Fast reheat and thick insulation means cheap to run

The coil is designed to heat the whole of the cylinder contents and sits very low in the base of the unit (unlike conventional coils). Add to this the coils large surface area and a very fast recovery is achieved on 100% of its volume. High heat retention is then achieved by use of 50mm thick CFC/HCFC Free (ODP ZERO) lagging.

Reasons for external expansion

When developing Ultrasteel HE, we drew on all our group's experience of previous unvented products we had manufactured. Earlier mains pressure units included both internal and external expansions and, with this knowledge, we have listed below our reasons for having no hesitation in going with an external system.

Unvented cylinders with internal expansion are known by the trade as "bubble tops". This is an apt description as they do indeed trap a bubble of air in the top. As the cylinder is heated up, the expansion of the hot water is taken up by the bubble.

As you probably know water under pressure absorbs air. Some people will be familiar with milky water coming from their taps. The milkyness is the bubbles in the water formed as the air is released.

In some areas of the country, local conditions have led to some bubble top unvented cylinders losing their bubble prematurely. This has been disruptive and costly for all concerned. Indeed, some have even been converted to external expansion to solve such local problems.

If the air bubble is lost, it is usually necessary to drain down the unit and refill it. As anyone with a water meter will tell you, refilling it costs money and then the additional inconvenience of having to pay to heat the water again. You would be even more upset if you had to find and pay for a plumber to do this for you.

Contrast this with the rubber diaphragm inside our expansion vessels. This diaphragm separates the water from the air - PROBLEMSOLVED. The pressure can easily be checked and topped up with a foot-pump without losing a drop of water.

Add the additional flexibility of remote siting that an expansion vessel brings and the choice for us was clear - External Expansion.