

Papa Pump®

Papa Pump - The Zero-Energy Pumping Solution

Papa Pump has developed a range of water pumps which use no external power thanks to the novel use of water-powered ram-pump technology, first developed by the Montgolfier brothers at the end of the Eighteenth Century. The Papa Pump has brought this technology into the 21st Century with a new compact design. The resulting hydraulic pump is a cost-effective pollution-free alternative to electric pumps and can be used wherever a supply of running water is available – without the need for any external power supply.

When water conservation and grey-water recycling is an increasing priority around the world, greater use of Papa Pumps would instantly reduce costs in pumping water (over 50% of water abstracted from surface water in UK uses electricity to pump it to where it is needed) for consumers, farmers, water utilities, and industry – and reducing pollution and increasing energy efficiency.

Hundreds of the British-designed Papa Pumps are in use globally including supplying a school in Tanzania, watering remote small holdings in Somerset and helping farmers all over the world by preventing their livestock endangering themselves and polluting water courses.

A Papa Pump is also installed at London's South Bank as part of the ongoing Summer 2011 Festival of Britain, where it will be conserving mains water by using drainage – or 'grey water' – from beneath the Royal Festival Hall to water plants by powering a sustainable irrigation system.

Papa Pump has received awards in the past for the company's innovative zero-energy pumping solutions and will be launching new products after the Festival of Britain to reduce the cost and widen applications by making installation and pump controls even easier – for example, by using the pump in zero-energy sustainable urban drainage systems (SUDS).

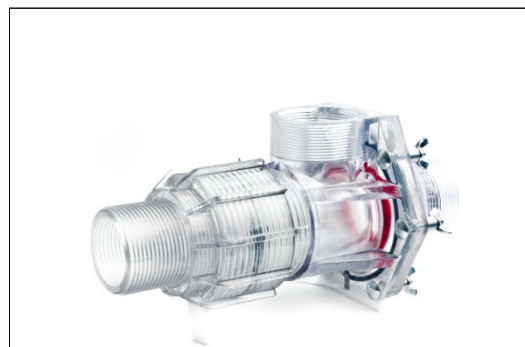
While frequent Press days will be held at our offices in Cornwall, please get in touch to arrange a visit to our demonstration sites around the UK to see other pumps working in a range of situations.

About Papa Pumps

The Papa water-powered pump uses a totally new patented, pumping concept, requiring only the energy of flowing water. The Pump has been developed in Cornwall, UK and has many hundreds of installation already working around the world. It is used in a wide variety of situations and pressures. The Papa water powered pump is capable of transporting in excess of 4000 gallons (18,000 litres) of water per day from a flowing stream or river, using only the energy of the flowing source. It can deliver water to a level of 30x the head (i.e pressure) of the supply. For full background on the functioning of the Papa Pump, please see <http://www.papapump.com/cmsfiles/Papa-info-essay.pdf>.

About the Montgolfier's original Ram Pump design

The first self-acting ram pump was invented by the Frenchman Joseph Michel Montgolfier (best known as a co-inventor of the hot air balloon) in 1796 for raising water in his paper mill at Voiron. His friend Matthew Boulton took out a British patent on his behalf in 1797. The sons of Montgolfier obtained an English patent for an improved version in 1816, and this was acquired, together with Whitehurst's design, in 1820 by Josiah Easton, a Somerset-born engineer who had just moved to London. Ram pumps remained in use for decades at locations around the UK although many have now been replaced by powered pumps, with shorter working lives and higher running costs.



Revolutionary low-cost plastic Papa Pump