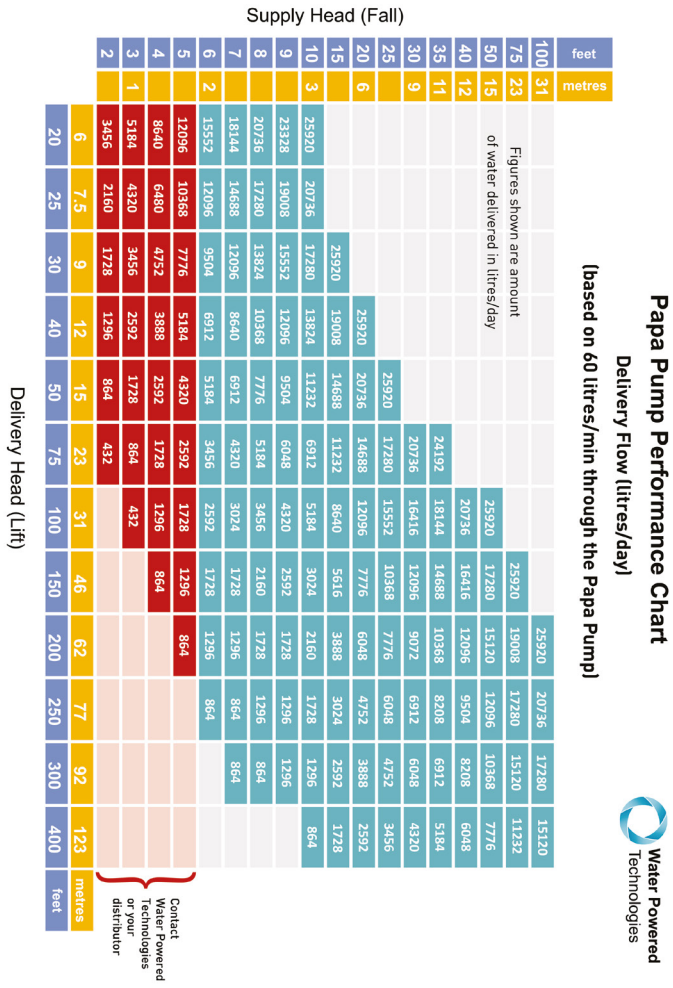
Water Delivery - How Much and How High?

The amount of water the Papa Pump will deliver depends on:

How much water is supplied to the Pump

The height of the available Supply Head

The height of the required Delivery Head



The higher the supply head, the more efficient the pump.

An average flow through the pump is 60 litres/minute using a 50mm bore supply pipe.

For lower flow rates check the supply pipe size.

(Smaller or irregular flows may need a SureFlow Valve to regulate.)

Benefits of the Papa Pump

- **Save** on water bills, fuel and maintenance
- Free Water for your lifetime and future generations
- Works 24/7 Day and night Rain or shine
- Small & Light 4kg- 30x15x16cm non-metal composite
- Eco Friendly No pollutants No fossil fuels
- 5yr Guarantee Guaranteed for 5 years Lasts a lifetime

Winner of many innovation and environmental awards - International Patents

The Papa Pump Kit is all you need...

Kit Contents

Boxed Kit includes Installation Manual

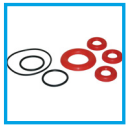

Papa Pump with 5 year Guarantee


Quality 8ltr Pressure Vessel


Delivery Hose Assembly & 'T' Connector


2 Free Seradisc Filters for the Best Filtration


Stainless Steel Quarter Turn Ball Valve


Free Spare Rubber Valves and 'O' rings


Multi-Purpose 'Fits All' 'C' Spanner


Owners Manual

The Papa Pump is available from your local dealer...

Water Powered Technologies

Water Powered Technologies holds the worldwide patents for the Papa Pump

Unit 14a | Kings Hill Industrial Estate | Bude | Cornwall | EX23 8QN | UK

t | +44 (0)1288 354454 e | info@wptglobal.net

www.waterpoweredtechnologies.com

Papa Pump®

A Great UK Design

INTERNATIONAL PATENTS

the pump that uses no fuel!

An innovative new water pump that uses the power of natural flowing water from a spring, stream or river to deliver water over long distances and to impressive heights.

A long term water solution for today's water needs.


Agriculture


Off Grid Living


Commercial & Utility


Humanitarian & Charity

Eliminate Pump Operation Costs

Minimal Maintenance

Save Time and Money

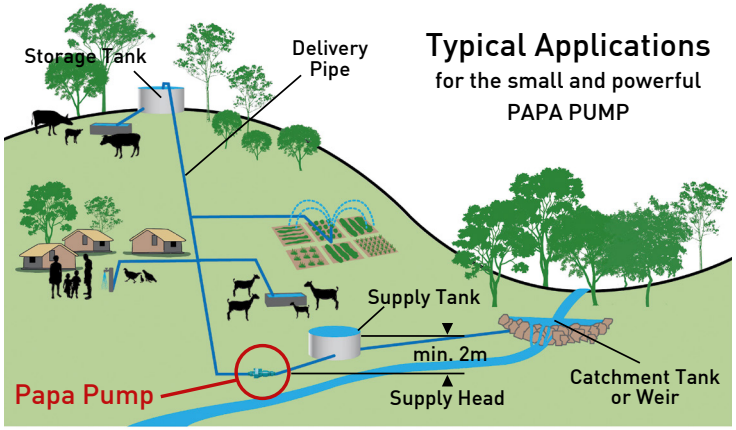
Installing a Papa Pump

A Natural Water Source is Required.

river | stream | spring | pond/lake

The Papa Pump requires a flow and head of water to operate, **the higher the supply head, the more efficient the pump** therefore it is important that you find the maximum head available to pump the maximum amount of water.

The water supplied to the pump should be piped from a weir or a catchment tank at a higher level via a supply tank. Use the appropriate steel galvanised supply pipe if you are pumping to heights of 15 metres or more. This is very important for efficiency.

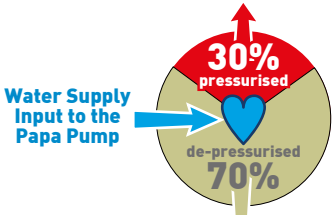


Typical Applications

for the small and powerful PAPA PUMP

Water Delivery Principles

The Greater the Supply Head, the More Efficient the Pump



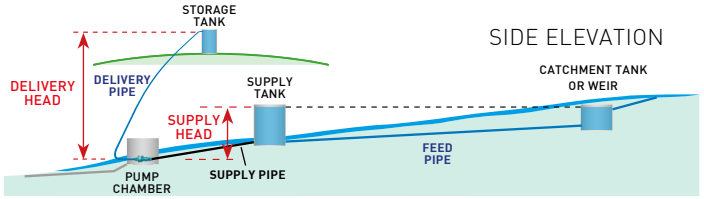
30% (max.) of the pumped water is pressurised for delivery

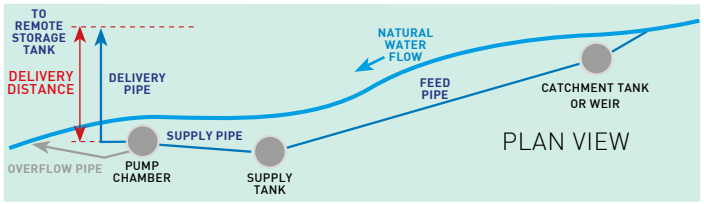
70% (min.) of the pumped water is de-pressurised and returned to the watercourse

With a 5 metre supply head water can be pumped up to a height of 150 metres

Water can be delivered 000's of metres in distance. Check delivery pipe size to minimise friction loses.

Planning an installation





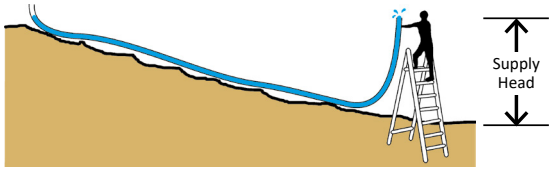
Measuring the Supply Flow

Dam the stream with a plank with a 'V' cut into it.

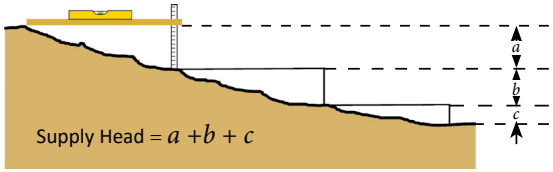
Use a litre jug and a stop watch to time how long the jug takes to fill.

Measuring the Supply Head

Hose Pipe Water Level Method (ideal for sites covered with undergrowth)



Step & Level Method

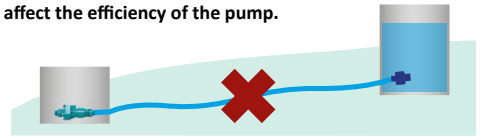


Installation Do's and Don'ts

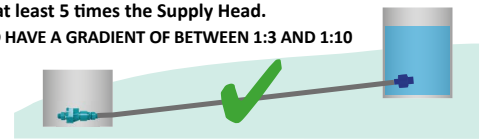
DO NOT put the Pump directly into the stream or water.

Papa Pumps are designed to work out of the water- this protects them from debris and flooding and ensures the system will last a lifetime.

DO NOT use a plastic, bent or uneven pipe for your supply pipe. It will seriously affect the efficiency of the pump.



DO use a 50mm (2") internal diameter GALVANISED STEEL PIPE - with a length at least 5 times the Supply Head.
AND IT SHOULD HAVE A GRADIENT OF BETWEEN 1:3 AND 1:10



PRESSURE VESSEL

each 10 metres Delivery Head = 1 bar Delivery Head Pressure

DO set the air pressure in the pressure vessel to 0.5 bar BELOW THE DELIVERY HEAD PRESSURE BEFORE attaching it to the system.

RE-CHARGING THE PRESSURE VESSEL

DO NOT FULLY UNSCREW THE PRESSURE VESSEL WHILE PRESSURISED.
Stop the pump and unscrew a maximum of 2 turns - Wait until water pressure is fully released before removal.

FLUSHING THE SYSTEM

DO flush the system prior to pump installation.
It is very important to prevent the ingress of harmful stones and debris which will cause serious damage to the pump.

PLEASE READ THE FULL INSTALLATION GUIDE BEFORE INSTALLING YOUR PUMP

It can be downloaded from
www.waterpoweredtechnologies.com/docs/installer-manual-lr.pdf