

ALDGATE PUMP SALES & SERVICE

(Colard Nominees Pty Ltd Inc. in South Australia)
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Why fit a Pressure tank to your PC controller pump?

Lowara have undertaken a trial to find out the benefits.

The trial involved a Lowara 2HMS4-PC pressure unit:

- Supplying rainwater from a ground level tank to a household of 4 people.

Water was being supplied to the main bathroom, ensuite, laundry and kitchen.

Electric mains pressure hot water service was installed.

Toilets were not connected to the system, as they were supplied off a separate pump unit using borewater.

The results of the field trial over a six month period were:

For the three months that a 2 litre pressure tank was fitted to the pump unit, the pump unit averaged **40 starts / stops per day with an average run time of 1 minute per cycle.**

For the three months that the 2 litre pressure tank was removed from the pump unit, the number of **starts / stops per day increased to 70, and the average run time reduced to 43 seconds per cycle.**

We can confirm that over the twelve month field trial (six months with a 2 litre tank fitted / six months without a 2 litre tank fitted), the pump unit had cycled 20075 times with a total run hours of 274.3 hours.

Just imagine how much these results would increase if toilets and a low pressure gravity hot water service (instead of mains pressure) were also connected to the system, in particular during the period that the 2 litre tank was removed.

There are many obvious benefits for our customers in reducing pump cycling by installing a small pressure tank to these installations, but none more important than the reduction in power consumption. On average a pump unit of this size will draw 5 to 6 times its full load amps on start up.