Device is hydrosmart

Invention focusses on water quality

BY **ALAN WELBURN**

WATER DIVINERS: Paul Pearce, Dr Bob Moore and Brian Wilkins are helping farmers and producers with an ingenious device that enhances water quality.

AN ADELAIDE business has unlocked a straightforward solution to a diverse range of water problems.

Over the past 20 years Hydrosmart has been refining ways and means of delivering usable water to producers and consumers - and winning fans in the domestic, agricultural and mining sectors in the process.

In short, Hydrosmart uses a computer processor and pipe in a unique U-bend shape wrapped in coils which gets inserted into the user's existing pipe system.

A computer controls the electrical fields that pass through the pipe and into the water.

The appliance disrupts and weakens the bonds of minerals by putting an ionising charge onto water molecules.

Hydrosmart owner Paul Pearce said its products could deal with bore water, river water, town and mains water and were designed to treat scale, corrosion, salinity and iron.

"Hydrosmart offers a water solution for most properties from helping to drought proof outback stations to making crop success a reality," Mr Pearce said.

"We research, develop and manufacture our original 100 per cent Australian products to deal with water quality problems all over the country as well as overseas.

"Hydrosmart is the leading industry water conditioner and is trusted by agricultural, industrial and domestic customers alike for solving scale, salinity and iron problems."

Its water treatment products are designed to treat scale, corrosion, salinity and iron, Mr Pearce said.

"Instead of forming as scale better dissolved minerals pass into downstream applications without building up in pipes, soil, fine sprays or drippers and plants are able to take up activated water more readily so growth is improved," he said. "Scientific trials showed easier hydration on both treated versus untreated bore water carrying nutrient mix.

"Even rainwater treated versus untreated showed better crop yields in a lettuce trial with more weight being recorded."

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Hydrosmart's benefits extended beyond improvements to water quality.

A company spokesman said the Hydrosmart process did not produce wastewater and used only five watts of power to produce the necessary electromagnetic fields and resonance frequencies, meaning no huge electricity bills or it can run on solar if required very simply.

"These units are simple to install and are totally maintenance free," Mr Pearce said.

"With its three metres of contact with water it produces outcomes that are quite remarkable once water is activated allowing 100pc of the flow to be used.

"The water conditioner improves all water sustainably for decades - whether it is being used in a domestic setting for lawns and gardens, or on a large-scale crop farm all for a one-off purchase price without need of any filters or consumables, just a normal 10 amp power point or solar panel and battery.

"The products also improve stock health when bore water is high in salt and minerals. Hydrosmart conditions the water back to a more palatable level and assists animals to better metabolise nutrients in their gut for healthier growth and overall quality, and is used on many types of stock from chooks to cattle, sheep and horses."

Recent feedlot trials showed 15pc more weight gain just using treated water over six weeks.

Nathan Keogh, station manager at the Innamincka Cattle Station, SA, is a fan.

He successfully used Hydrosmart to prevent scale and algae in stock troughs in late 2018, admitting he was "amazed" how Hydrosmart halted a build-up up of hard, salty scale in the troughs filled from a "problematic bore" and how well cattle responded to the improved water.

"Cattle seem content (and) I do believe the unit I have is doing something. It has amazed me how it has stopped the salty calcium on the cattle troughs." Mr Keogh wrote in a letter to Hydrosmart.

"Seems to have halted the rust somewhat and like I said the troughs are now much softer to clean."

Mr Pearce said Hydrosmart products had been installed in homesteads, farms, agribusinesses and factories across Australia, including Uluru National Park, Kidmans, RioTinto, BHP, Tatura Milk, d'Arenberg Wines and Wild Duck Creek Wines.

Some mining camps such as Newman, Port Headland, West Angelas, Mt Isa and PNG have also derived benefits from the Hydrosmart technology, he claimed.

"We had an instance where chemicals were being used for de-watering at a gold mine that handled two megalitres of water in its system per day," he said.

"The 110 millimetre pipe, which carried a mineral load of 29,000 parts per million, was scaled to a thickness of 15mm. Chemicals weren't doing the job and scaling was getting worse.

"The supervisor reported installation of a Hydrosmart system not only prevented any additional build-up of scale, but actually removed the existing 15mm of scale such that the pipe was back to a bare black poly pipe."

Hydrosmart has also been used in minerals processing in which crushed heaps were irrigated with a cyanide solution to leach silver into solution.

All Hydrosmart units are supplied direct from the company.

- Visit www.hydrosmart.com.au and for more information, call 1300 138 223.

And, that could be a smart thing to do.