

# AMIAD NEWS



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INDUSTRY



MUNICIPAL

## AMIAD AUSTRALIA 2006

As Amiad moves forward into this year, concentrating on our Municipal and Industry Market Sectors, we are pleased to welcome you to our first Newsletter for 2006.

We are focussed on tailoring solutions for filtration; "water treatment" and "water distribution" applications, from component supply to turnkey projects and are able to offer, in partnership with Capital Finance, finance and lease options for appropriate systems.

Over the past few months Amiad Australia has won and supplied some major projects in all areas of our expertise.

- Huntley Power, New Zealand - Cooling water filtration with a skid mounted multiple EBS Filter package.
- BHP, Woolongong - Mine dewatering, utilising Amiad Deep Bed Pressure Media Filtration.
- Lihir Management, PNG - Raw water filtration for process and potable water requirements, utilising Amiad Deep Bed Pressure Media Filtration.
- Gold Coast City Council, Queensland - Leakage Control, with Dorot Automatic Control Valves.

Following the companies recent period of change, Amiad Australia is now fully owned by our global parent, Amiad Filtration Systems Ltd., which was partially floated on the UK Stock Exchange in 2005 and is in the process of setting up a new manufacturing and marketing subsidiary in China.

Amiad Australia would like to thank you for your continuing support and we are looking forward to a mutually beneficial year with our customers and clients.

Nir Lang  
CEO – Amiad Australia

# AMIAD WATER SYSTEMS



## Nirosoft Membrane “Case Study” - Process/Packaging Facility

Amiad Australia and Nirosoft Membrane Technologies were commissioned to design and manufacture an ultra filtration (UF/RM) treatment system that provided high quality water for process-related uses within a winery packaging facility. The process water from this filtration system is predominantly glass bottles washing.

### Treatment Process

- Mechanical screen filtration of 25 micron (Amiad TAF Filter), for the removal of “coarse” material to ensure the protection of the membranes.
- A membrane UF/RM separation system for the removal of fine and colloidal particles, residual organic matter, oil and grease, bacteria and pathogens with a molecular weight cut-off of 20,000 Dalton (0.01 micron).
- Manual Cleaning in Place (MCIP) unit for the UF/RM Membranes.
- Activated carbon filters for removal of residual colour, odour and taste.
- The treated water was transferred to existing storage tanks at the winery. Water from these tanks is supplied for process uses, following final UV disinfection and cartridge filtration.



### Advantages of Water Treatment by Ultra Filtration

- Ultra filtration gives superior water quality of treated water compared to traditional media or micro filtration techniques, with significant reduction in Total Suspended Solids (TSS) and turbidity.
- No chemicals are required in this treatment process, which relates to lower “on going” operating costs and issues associated with the handling and storage of chemicals. Ultra Filtration is, in itself, an efficient disinfection system with the effective physical removal of bacteria, virus’ and pathogens.
- The UF/RM system works automatically and is on line at all times, as there is no need to shut down the filtration process for backwashing cycles. The UF/RM system is simple to use and has ease of maintenance.

Amiad water systems and Nirosoft Membrane Technologies have had extensive successful experience in UF systems for water and wastewater treatment, including production of drinking and process water.

Ravid Levy - Nirosoft Product Manager

### New Nirosoft Product Manager

Amiad Australia would like to welcome, Ravid Levy as the New Nirosoft Product Manager. Ravid has a B.Sc in Environmental Sciences and Ms.C in Environmental Biology, with work experience in water and wastewater monitoring and as a product manager with Nirosoft Industries. Please contact Ravid in the Melbourne office, for all queries on membrane technologies.

## Gold Coast City Council: Pressure Leakage Management Project

Amiad Australia are proud to be appointed as control valve supplier to contractor AbiGroup for the major new Pressure Leakage Management Project for Gold Coast City Council.

This appointment follows a long trial period using the Dorot 300 series valves, conducted by Wide Bay Water, considered to be the leading consultancy in leakage control in Australia, on behalf of Gold Coast City Council.

The control valves applied are the Dorot 300 series valves, with diameters ranging from 80mm up to 300mm, and are assembled as standard pressure reducing valves.

A special pilot valve actuator is fitted to each CXR pressure-reducing pilot per valve assembly, which in turn is controlled by a Palmer electronic valve controller. The Palmer controller continuously monitors the flow passing through the valve, and modulates the controlled downstream pressure according to measured flow rate.

It is well known that leakage rate is a direct function of the operating pressure, where leakage rate increases with pressure.

The pressure vs. flow rate modulation control method regulates the leakage rate by reducing the pressure if the demand (flow rate) reduces, or increases the pressure again if the demand increases.

The controls are adjusted to modulate the pressure only within a fixed pressure range, which prevents end-users experiencing too low pressure, and to protect the system from overpressure.

The net effect is that the leakage rate, which is normally at the highest during off-peak demand - typically at night - is reduced to the absolute minimum.

In the event of electronic control failure, the Dorot 300 series valve with the CXR pilot assembly acts as a standard pressure-reducing valve and controls the pressure at a set low pressure.

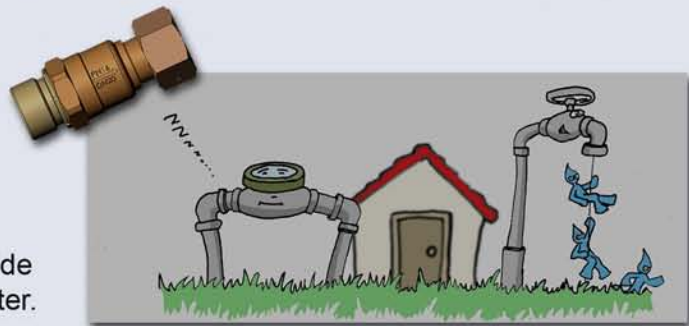
Please contact Amiad Australia for more information.



## RECOVER LOST REVENUE! Using the UFR (Unmeasured Flow Regulator)

A dripping shower, toilet cistern, bath tap, outside tap etc. is a clear waste of valuable treated water. To make things worse, standard water meters are simply not capable of measuring such low flows, and those leaks go undetected and unmeasured, costing water authorities dearly for unrecoverable treated water. Water theft is also a major concern where deliberate low flows - too low to be measured - are used to fill tanks over longer periods.

The UFR, distributed by Amiad Australia is a very simple and compact device that is installed immediately upstream of the water meter, and uses a patented diaphragm arrangement to batch the water lost to leakage, allowing the water meter to actually register the batched volume of low flow leakage.



This unique design does not interfere with normal demand and opens up fully to allow unrestricted flow when e.g. a tap is opened or a shower is turned on, etc.

The unit is relatively low cost, and recovery occurs in a very short period. Ideally, the UFR should be installed in new developments as part of the water supply installation up to each water meter, but the unit can also be installed on older existing water meter installations.

Please contact Amiad Australia for more information.



## Amiad to launch next generation Thread Technology



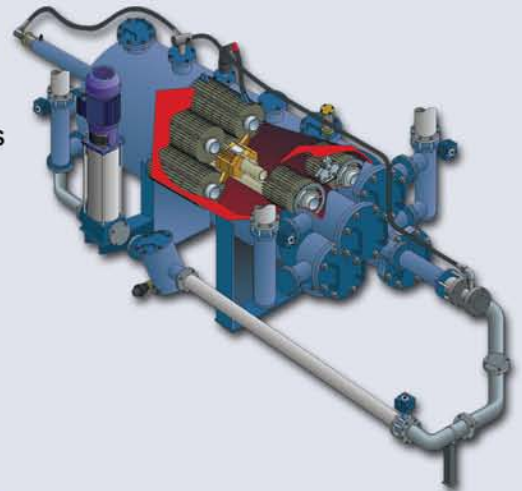
Amiad Australia will be featuring the new generation thread technology filter at Enviro 06, to be held at the Melbourne Exhibition Centre, May 9th – 11th.

The technology is an automatic self cleaning, thread wound cassette filter. The new cassette is of stronger construction and denser thread windings than previous models, which has increased the removal efficiency of the filter.

This unique filter contains numerous cassettes with multiple layers of tightly wound high strength synthetic thread, which is able to combine the advantages of surface and depth filtration. The compact designed filter is suitable for filtration degrees from 20 micron to 2 micron thus bridging the gap from macro filtration to micro filtration.

Some typical applications for the thread technology are:

- Membrane pre-filtration
- Potable Water Polishing/Improvement
- Reducing Load on Cartridge/Bag Filters
- Fine Filtration for re-circulating water systems
- Secondary/Tertiary Effluent Polishing



For more information,  
visit Amiad at **Enviro 06**,  
Stand 111 and 197  
or visit our web site:  
**[www.amiad.com](http://www.amiad.com)**

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