



**MUNICIPAL  
WATER RE-USE OPPORTUNITIES**

# NETAFIM'S EXTENSIVE EXPERIENCE IRRIGATING SOME OF THE WORLD'S HARSHTEST REGIONS HAS FACILITATED THE DEVELOPMENT OF HIGHLY ADVANCED IRRIGATION PRODUCTS TO OPTIMISE EVERY DROP OF WATER USED IN IRRIGATION.

## NETAFIM WATER EFFICIENT DRIPPERLINES HAVE BEEN IRRIGATING AUSTRALIA AND NEW ZEALAND'S CROPS AND GARDENS FOR OVER 25 YEARS, SAVING MILLIONS OF LITRES OF WATER EVERY YEAR.

### What Netafim re:SOURCE offers

Netafims re:SOURCE Division has extensive global experience in water re-use, from small domestic systems to the largest municipal projects.

Products and services are designed and packaged into solutions to suit any situation and environment.

Our municipal market range has been designed to adhere to government regulations from both an environmental and health perspective, as well as overcome general water quality concerns.

### Municipal Market

With the current ecological climate, there is an increasing need for a more efficient and sustainable use of water resources, both in urban and rural environments.

A major way to achieve greater water efficiency is the re-use of water that would have once been discarded into the environment. The re-use of water for agricultural and urban irrigation is a positive way to sustaining the environment. Recycled water can have the advantage of being a constant, reliable water source and reduces the amount of fresh water used.

### Considerations

There are concerns and unknowns about the impact of the quality of recycled water, both on crops and end users.

Water quality issues that can create real or perceived problems in agriculture and urban environments include:

- nutrient and sodium concentrations
- heavy metals
- human and animal contaminants
- pharmaceutical and endocrine disruptors



## Applications

Netafim has extensive experience in single site Sewage Treatment Plant projects such as irrigation of timber plantations, pastures, and open spaces providing all major products and services for the systems.

Other applications are where pipeline systems from one or more Sewage Treatment Plants service a number of end users such as vineyards and sport clubs.

Our systems irrigate a diverse selection of crops such as: timber plantations, turf farms, viticulture, vegetables, nurseries, orchards, flowers, pastures, urban developments in turf and garden beds.

## Product Overview

The basic principle of a drip system is to irrigate an individual crop using integral drippers (drippers contained inside a tube) via a grid system. The dripperline is installed either sub-surface or on-surface, with spacing and flow rates determined by site conditions. In addition to the dripperline, the system would include filters, control valves, mainlines/submains and other ancillary equipment.

A key component of the system is the controller for monitoring water distribution from a centralised point, allowing ease of management for the system operator.

Netafim's dedicated Technical Services Division also offer tailor made solutions for any municipal project. Services include: project development, design, commissioning and training packages, automation, service plans and comprehensive system reviews.

## Installation & Maintenance

Netafim has an established dealer network throughout Australia and New Zealand experienced in installation and maintenance. In a joint partnership Netafim and their dealer network provide ongoing support to guarantee quality performance of their systems, now and in years to come.

## Why Drip?

- With proper design SDI (sub-surface drip irrigation) can be applied in almost any climate or soil condition.
- Beneficial nutrients from water re-use are available for plant uptake and in some cases reduce fertiliser requirements.
- Eliminates overspray in windy sites.
- Reduces odours from effluent water.
- Reduces the possibility of ponding and run-off using low application rates.
- Provides an extra physical barrier against human contact and therefore reduces possible diseases.
- Ability to use water of a lesser grade, saving costs in the treatment process.



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