



**DOMESTIC ONSITE
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'S 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

Netafim's re:SOURCE Division has extensive global experience in water re-use for small and large domestic properties.

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

Our products for the domestic market have been designed to adhere to government regulations from both an environmental and health perspective, as well as overcome general water quality concerns.

Onsite Market

The onsite or septic market refers to effluent which is treated and dispersed close to the source. In single domestic houses this water comes from the laundry, kitchen, bathroom and toilet effluent.

Netafim's Onsite Dripperline Dispersal System uses a secondary treatment system to disperse treated effluent safely and effectively directly into the soil.

The initial stage of a secondary treatment system is where sedimentation, flocculation, flotation and anaerobic digestion processes take place. During secondary treatment aerobic digestion, clarification and disinfection occur.

Types of secondary treatment systems are:

- Aerated Wastewater Treatment Systems (AWTS)
- Sand, textile and media filters
- Biological filters
- Reed beds
- Mound systems
- Wisconsin mounds

Netafim's domestic onsite system requires a minimum of secondary treated effluent from a treatment plant, to ensure correct operation on the application area.

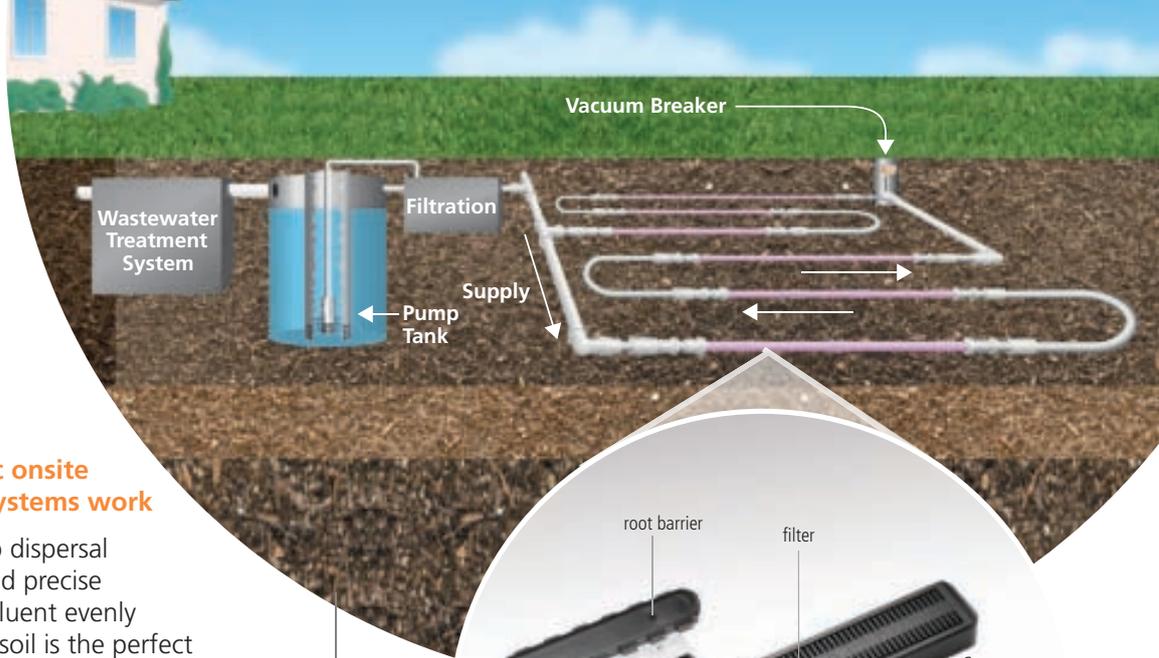
Problems - Health and Environmental

All onsite systems could cause potential risks to people from contact with the water from the dispersal system.

Dispersal systems are installed in domestic gardens and turf areas which are regularly in use. This risk is increased when the dispersal system overflows or run off occurs.

It is critical in design, installation and especially maintenance that these issues are addressed. Netafim's sub surface dripperline dispersal system offers peace of mind solutions to these problems because of its direct release into the soil.





How Netafim domestic onsite dripperline dispersal systems work

Netafim's subsurface drip dispersal system delivers a slow and precise application of treated effluent evenly throughout the soil. The soil is the perfect environment for further treatment of the effluent and delivers essential nutrients and moisture to the grass and plants. The dripperline comprises a flexible polyethylene tube with evenly spaced emitters. The water is pumped through the dripperline and discharged through pressure compensating non-leakage emitters, ensuring an even, slow distribution of the effluent into the soil.



Drip System Layout

A drip dispersal system distributes effluent directly into the soil through a system of tubing installed below the ground surface usually at 1m lateral spacings. The system consists of a treatment system with pump, filters, submains, dripperline, air vacuum release valves, a flushline and flush valve.

“DRIP DISPERSAL SYSTEMS MAXIMISE THE ADVANTAGES OF RE-USING WATER IN YOUR GARDEN MORE THAN ANY OTHER FORM OF DISPERSAL.”

Why Drip?

- Ideal for difficult site conditions such as clay, shallow soils, steep slopes, high water tables.
- The most advanced technology available for recycling of water and the re-use of nutrients when used for landscape irrigation.
- Eliminates health risks associated with dispersal methods that allow wastewater to surface or become airborne.
- Reduces run-off and ponding of effluent due to the slow application rate.
- Achieves a balanced water distribution throughout a shallow profile by directly applying the effluent to the plants root zone.
- Ensures uniform distribution of effluent for a long system life.
- Dosing and resting cycles take full advantage of the treatment capabilities of the soil for cleaner water in the aquifer.



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