

Septech Domestic Wastewater Treatment Solutions Enviro-Pack Domestic Sewage Treatment Plant

SHL Global Investments

SHL Global Investments is a leading investor operating in the global growth markets across Asia, Africa, Latin America and the Middle East. Since inception, it completed the acquisition of industry recognised brands including Septech, New Water Corporation and a number of specialised engineering, manufacturing and technology companies across the G.C.C., thereby creating the deepest bench of engineering experience across global growth markets. Employing over 400 people, the Group has 10 country offices and 7 manufacturing facilities spread across 3 regional hubs in Australia, Spain and the United Arab Emirates.

Local presence across these markets provides the group with unmatched expertise, know-how, proprietary transactional access and the ability to grow partner businesses across borders. SHL Global Investments shareholders and management currently manage sector and in-country value (ICV) specific investments for these subsidiary group companies, encompassing full-service Asset Management, Investment Banking, Private Equity and Finance.

Investments managed by the group have holdings in sectors including manufacturing, water infrastructure, engineering and oil and gas. The group's current portfolio of shareholders include industry leaders and private long-standing investors.

The group has set the standard for infrastructure related investments through its investment into a regionally built infrastructure wastewater business which started in 1997 and has 18 years of proven track records for delivering projects on time and budget, the highest corporate governance and transparency and a wealth of capabilities to take on projects of almost any calibre from an engineering or financial standpoint. Expanding on this investment, SHL Global Investments further invested into New Water Corporation (NWC) and its world class recognised team to cement its position as one of the most advanced integrated water and wastewater engineering companies globally which currently holds some of the most advanced Intellectual Property available in the market. Through this investment, the formation of New Water Corporation was integrated into the portfolio of SHL and a globally recognised team has emerged today capable of handling a wider range of the world's challenges in the water industry globally.

SHL Global Investments is committed to the highest environmental, stakeholder engagement and corporate governance standards. The group's subsidiaries have leading industry recognised certifications and registrations which are all fully compliant to the highest standards available in the industry. The group has supported best in class organizations focused on entrepreneurship and job creation, community engagement and impact on the economic landscape of the markets in which it operates.

Septech Enviro-Pack Domestic Sewage Treatment Plant

The Enviro-Pack Domestic sewage treatment system effectively treats effluent flows up to 4m³ per day and is suited to a variety of applications, including villas, mosques and holiday resorts.

Treated effluent is of a consistently high standard and mechanical components in contact with the wastewater are of non-corrosive material. The Septech Enviro-Pack Domestic Sewage Treatment Plant ensures treated effluent is odour-free and meets local and international environmental laws, even after extended periods of non-use.

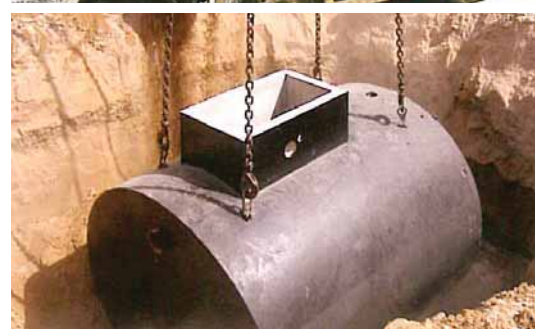
Installed in one day by the client or Septech, plant operation is noiseless, odourless and a low ground profile means the treatment plant is aesthetically pleasing and easily concealed within the garden landscape.

One Pump System

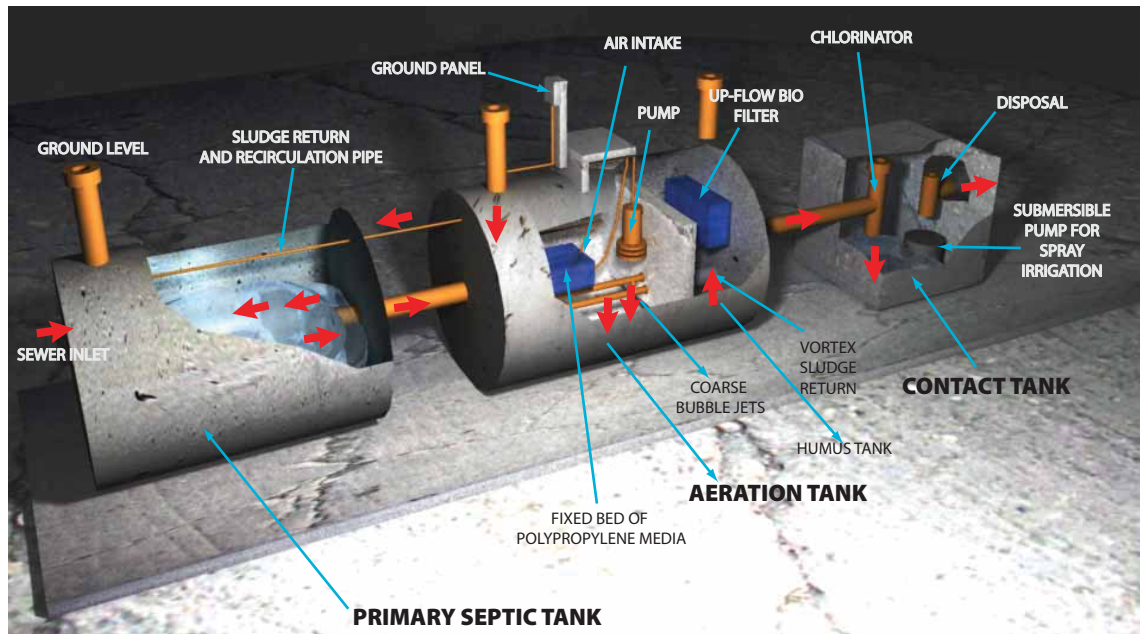
The Enviro-Pack Domestic sewage treatment plant, backed by a Septech warranty and servicing agreement is operated and maintained via a reliable, single pump system, reducing operation and maintenance cost.

The Process

- Wastewater is gravity fed into the primary septic tank where waste undergoes settlement and digestion across a 24-hour period
- Settled wastewater then flows into the aeration chamber where effluent is mixed, diluted and aerated, via coarse bubble jets
- Organic matter in the wastewater is oxidised by micro-organisms growing on the fixed bed of polyethylene media in the aeration chamber
- Organic impurities in the wastewater are progressively reduced
- Treated wastewater undergoes settlement in the secondary tank due to reduced flow velocity which causes sludge particles to settle to the bottom of the tank
- Clean wastewater flows upward through a biofilter developed by Septech, further polishing the wastewater, further reducing the suspended solids



Process flow diagram of the Enviro-Pack Sewage Treatment Plant



Continual Cycle

Sludge automatically returns and is stored, via the vortex lift in the secondary tank to the inlet of the primary sewage tank on a continual basis, with the following benefits:

- Storing and digesting settled sludge in the primary septic tank reduces sludge accumulation in the final settlement tank, reducing solids carry over into the irrigation chamber
- Clean effluent, recycled through the plant suppresses odour producing micro-organism activity
- By continuously recycling treated effluent, the biomass in the aeration chamber is fed stored organics from the primary sewage tank, keeping micro-organisms at maximum population levels and reducing the potential for insufficient food supply to the treatment plant during extended periods of non-use, such as weekends and holidays. This means that untreated effluent is prevented from being discharged from the unit when waste flow recommences



Why Septech?

- A world-class diverse management team, consisting of water infrastructure specialists with local and global expertise
- A mature and solid financial base
- A prestigious shareholder profile
- A symbiotic business unit structure, allowing the tailoring of complete project solutions: from design through to execution and maintenance
- Exclusive regional manufacturing and license agreements with global leaders
- A regional home base with presence in neighbouring Middle Eastern countries
- Specialised design-build-operate management capabilities
- Purpose built manufacturing facilities throughout the UAE
- Dedication to adhering to the most stringent global standards for manufacturing and environmental awareness
- ISO 9001:2008 Accreditation
- Compliance with IFRS Accounting Standards

SEPTTECH WASTEWATER SIGNATURE PROJECTS



Sharjah Municipality, Kalba

Project Name: Sharjah Municipality Capitox extended aeration sewage treatment plant
Client/Operator: Sharjah Municipality
Location: Kalba, Sharjah, UAE
Project Size: STP processing 1,100m³/day
Services Provided: Design and installation of Extended Aeration Treatment Plant
Products Provided: Capitox Extended Aeration Sewage Treatment Plant



Yas Island, Abu Dhabi

Project Name: Yas Island Worker Camp Sewerage Treat Plant (STP)
Client/Operator: Aldar
Location: Yas Island Worker Camp Sewerage Treat Plant (STP), Abu Dhabi, UAE
Project Size: STP processing 3,000m³/day
Services Provided: Concept, design and installation of STP for Yas Island construction worker camp
Products Provided: STP with Moving Bed Biological Reactor (MBBR) producing water suitable for irrigation purposes



Al Reef Villas, Abu Dhabi

Project Name: Al Reef Villas
Client/Operator: Manazel Real Estate
Location: Al Reef Villas, Abu Dhabi, UAE
Project Size: STP processing 1,000m³/day
Services Provided: Concept, design and installation of STP for Al Reef Villas (1100 villa complex)
Products Provided: STP with Moving Bed Biological Reactor (MBBR) producing water for irrigation purposes



Sir Bani Yas, Abu Dhabi

Project Name: Sir Bani Yas Hotel Development (3 STP Plants)
Client/Operator: Hilalco
Location: Sir Bani Yas Hotel, Abu Dhabi, UAE
Project Size: STP processing 120m³/day, 20m³/day and 15m³/day
Services Provided: Supply, installation & commissioning of UTB STP plants
Products Provided: Underground Trickling Biofilter and pumping stations



Wadi Al Helo, Sharjah

Project Name: 30 Nos. and 50 Nos. Villas Compound at Wadi Al Helo
Client/Operator: Sharjah Municipality
Location: Wadi Al Helo, Sharjah, UAE
Project Size: STP processing 70m³/day
Services Provided: Supply and installation of Sewage Treatment Plant
Products Provided: Underground Trickling Biofilter (UTB)



Al Maha Desert Resort, Dubai

Project Name: Al Maha Desert Resort (3 STP Plants)
Client/Operator: Al Maha Desert Resort
Location: Dubai, UAE
Project Size: STP processing 80m³/day, 25m³/day and 15m³/day
Services Provided: Supply and installation of Sewage Treatment Plant
Products Provided: Underground Trickling Biofilter (UTB)



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