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新界西堆填區
WENT Landfill



九龍灣
Kowloon Bay



西沙地盤
Sai Sha



屯門訓練場
Tuen Mun



香港國際機場 T2
HKIA T2



啓德發展區
Kai Tak



沙田馬場
Sha Tin Racecourse



馬灣公園
Ma Wan Park



香港國際機場三跑
HKIA Third Runway

WetSep

環保缸

WATER & WASTEWATER TREATMENT SYSTEM

歡迎查詢

FEEL FREE TO CONTACT US!

自 1998 年保然技術有限公司成立並開創出 WetSep 以來，除本地工程外，WetSep 一直被應用於最少 17 個不同國家的污水處理項目，當中包括美國、澳洲、加拿大、新加坡、沙地阿拉伯等。

WetSep 是保然的專利產品，它為污水處理提供整體的解決方案。WetSep 是一個多用途的水污染處理系統，適用於各種類型的工業。

時至今日，WetSep 已經發展出良好的遙距監控系統，可同步並滿足世界各地不同客戶的需求。

In 1998, Waste & Environmental Technologies Ltd. innovated the WetSep system. In addition to local applications, the WetSep System has been delivered to at least 17 different countries including the USA, Australia, Canada, Singapore and Saudi Arabia.

WetSep is a patented product providing a turn-key solution for wastewater treatment. The WetSep is a versatile system and can be applied in various types of industries and applications.

Nowadays, WetSep has established itself as good maintenance system with reliable monitoring and has satisfied the requirements of many clients around the world.

過濾成效 EFFECTIVENESS:

- 除去 70-75% 生物及化學需氧量
70-75% BOD and COD removal
- 除去 99.5% 懸浮固體及處理後污水懸浮固體含量少於 30 毫克 / 升
99.5% suspended solids removal with effluent SS level < 30 mg/L



過濾流程 PROCESS DESCRIPTION:

根據世界銀行提出，化學強化沉澱處理(CEPT)是最高效節能的污水處理方法，因此 WetSep 系統亦使用 CEPT 的概念去處理污水。

WetSep 的第一部分是撞擊流反應器 (ISR)。ISR 不需要任何電力驅動，從而降低能量的需求以及簡化了整個系統。同時，ISR 使混凝，絮凝和沉澱的三個過程結合，並通過精確的工程計算流路、流速、壓力差和試驗資料，使污水處理可在單一容器中完成。

WetSep 的第二部份是處理器 (UPC)。它的模組化設計有利於更加靈活地處理各種污水。被設計成模組單元的 UPC 容許安裝不同的處理系統，如薄片板、凝聚板、膜或快速的砂濾。模組的選擇取決於各種項目本身的需求。

According to the World Bank, Chemical Enhanced Primary Treatment (CEPT) is the most effective and energy efficient method for water and wastewater treatment. Therefore, the WetSep system has utilized the concept of CEPT to treat wastewater.

First stage of the treatment is Impinging Stream Reactor (ISR) which does not require any driven motors. This reduces energy requirements and simplifies the entire system. It combines the process of coagulation, flocculation and sedimentation in one system. By precise engineering of the flow path, flow rate, pressure differential and empirical data, the treatment can be completed in one single unit.

Second stage of the treatment is Universal Processing Chamber (UPC). It is designed to be a modular unit that allows installations of various treatment systems, such as lamella plates, coalescing plates, membrane or rapid sand filter. The choice of module depends on the requirements of the treatment varies between projects.



Source: Environmental Protection Department

藥水應用 CHEMICAL APPLICATION:



#26E 乳化劑

Emulsified Polymer



#27F 混凝劑

Polyaluminium
Ferric Chloride (PAFC)



酸粉

Sodium Bisulphate

型號及規格 MODELS & SPECIFICATIONS:



	WetSep 80	WetSep 60	WetSep 20	WetSep 10
機身尺寸 Overall Dimension				
長度 Length (mm)	7,000	6,058	2,991	2,290
闊度 Width (mm)	2,438	2,438	2,438	1,910
高度 Height (mm)	2,891	2,591	2,591	2,230
重量及容量 Weight & Capacity				
淨重 Net Weight (kg)	5,000	4,500	2,500	2,000
容量 Capacity (m ³ /h)	80	60	20	10
管道 Piping				
入水口 Influent Inlet	DN100	DN100	DN100	DN80
出水口 Effluent Outlet	DN150	DN150	DN100	DN80
排泥口 Sludge Outlet	DN100	DN100	DN100	DN80

系統包括 SYSTEM INCLUDES:

- 撞擊流反應器連同錐形濾片 Impinging Stream Reactor (ISR) with Conical Filter
- 通用處理室連同斜板 Universal Processing Chamber (UPC) with Lamella Block (WetSep 60 & 80)
- 二級安全分隔廂 Secondary Containment Compartment
- 可編程邏輯控制面板 PLC Control Panel
- 化學準備單元 Chemical Dosing / Preparation Unit
- 酸鹼度控制系統 pH Controlling System
- 靜態混合器 Inline Static Mixer
- 自動污泥排放系統 Auto Desludge System
- 格欄及扶手欄 Grating and Handrail

技術特徵 TECHNICAL FEATURES:



收集浮渣的出油盤
Oil Drain for
Floating Scum



斜板連不銹鋼框架
Lamella Block with
Stainless Steel Frame



分隔的注藥入口
Separated Chemical
Injection Point



靜態混合器
Inline Mixer



開藥器
Chemical Dispenser

安全措施 SAFETY PRECAUTIONS:



二級安全分隔廂
Secondary Containment
Compartment



格欄、扶手欄及踢腳板
Handrail, Grating and
Toe-board



充足淨空高度
Sufficient Working
Headroom



爬梯
Access Ladder



打藥喉保護
Tube in Tube



MSDS 資料盒
MSDS Box



安全標誌
Safety Label



洗眼水
Eye Wash



安全箱
Safety Box

沉澱缸組合 COMBINING WITH BALANCE TANK:



	SED 20	SED 60	SED 80
機身尺寸 Overall Dimension (mm)			
長度 Length	2,991	6,058	7,000
闊度 Width	2,438	2,438	2,438
高度 Height	1,300	1,300	1,300
重量及容量 Weight & Capacity			
淨重 Net Weight (kg)	1,500	2,000	2,200
容量 Volume (m ³)	6	12	15
其他 Others			
材質 Material	Stainless Steel 201		
間隔 Partition (s)	1-2	1-3	1-3
入水口 Inlet	DN100		
排出口 Outlet	DN100		
應用 Application	Influent Balancing / Sludge Thickening / Effluent Storage		

