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Hospital Effluent
WASTEWATER TREATMENT SYSTEM





EO
electrochemical
EFFLUENT TREATMENT SYSTEM

Hospital Effluent - ETP Wastewater treatment system

Hospital wastewaters are generated in different sectors of the hospital including patient wards, surgery units, clinical wards, ICU, kitchen, laundries and possess a quite variable composition depending on the activities involved.



RECYCLE . REUSE
WATER

Models

Model	Treatment Capacity (L/Day)	Flow Rate (L/hour)
RT ECO HW - 10 KLD	10000	420
RT ECO HW - 25 KLD	25000	1050
RT ECO HW - 50 KLD	50000	2100
RT ECO HW - 75 KLD	75000	3150
RT ECO HW - 100 KLD	100000	4200
RT ECO HW - 250 KLD	250000	10500



Once through process involving **NO** addition of chemicals / polymers.

Robust system design makes ideal for remote location operation with SCADA monitoring systems

Available On **PAY PER LITRE** Model thus O&M and AMC is the responsibility of system provider.

electrogen
electro-oxidation cell

pixecell
electrocoagulation cell

RT ECO unique Hybrid Advanced Wastewater treatment system incorporates **electro-coagulation & electro oxidation cells** to treat hospital wastewater in a simple once through process making it suitable for reuse.



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pixecell
Electrocoagulation Cell



electrogen
Electro-Oxidation Cell



MCC & PLC Panel

HOSPITAL EFFLUENT WWTP

80%
PERCENT

WASTEWATER

CAN BE
RECLAIMED
AND
REUSED

Facts about Hospital Wastewater

- Average water consumption by a hospital is approximately 750 L/d/b.
- A 100 bed hospital generates about 200 litres of urine and 50 kg of contaminated faeces.
- About 90% of consumed prescription drugs ultimately end up in wastewater.
- 15 – 20 % of the medicines utilized in hospitals are potentially bio-accumulative.

Hospital wastewater consist of numerous persistent chemical compounds and complex mixtures of organic matter including pharmaceuticals, radio-nuclides, detergents, antibiotics, antiseptics, surfactants, solvents, medical drugs, heavy metals, radioactive substances and potential pathogenic and drug resistant micro organisms.





RT ECO Hybrid Advanced electrochemical effluent treatment systems are fully automatic, skid mounted, designed for continuous operation which converts effluent into reusable water and operates even in remote locations.

Input - Output Parameters for RT ECO Hospital Effluent (Wastewater Treatment Plant)

Parameter	Wastewater (Raw Effluent)	Treated water
pH	6.0 - 8.0	6.5 - 9.0
COD (mg/L)	2,000	250
BOD (mg/L)	800	30
Oil & grease (mg/L)	100	10
TSS (mg/L)	700	100

Unique Features

- Plug & play system
- Fully automated
- Instant start/stop operation
- Small foot print
- Low operating cost
- Requires low power
- No chemicals required
- Odour-free and noiseless operation
- Durable and non-corrosive components
- Suitable for remote locations
- Consistent and reliable results
- Odourless & colourless treated water
- High efficiency in COD, BOD, pollutant removal
- 100% disinfected treated water (bacteria-free water)
- Very low sludge generation
- Produces reusable water
- Meets environmental regulations

Contact

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Dealers / Agents

