



**CHEMICAL FREE SYSTEMS**



**Hospital Effluent**  
**WASTEWATER TREATMENT SYSTEM**



[www.ecoklien.com](http://www.ecoklien.com)





**ECOKlien**

# 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)
ECOKlien - HW - 05 KLD	5000	210
ECOKlien - HW - 10 KLD	10000	420
ECOKlien - HW - 25 KLD	25000	1050
ECOKlien - HW - 50 KLD	50000	2100
ECOKlien - HW - 100 KLD	100000	4200



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.

**electro**gen  
electro-oxidation cell

**pixe**cell  
electrocoagulation cell

ECOKlien 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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RECYCLE . REUSE  
WATER

\* System design meeting explosion proof classification  
\* Certification as per operation location / country.

Contact

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**pixcell**  
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.





**ECOKlien** 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 ECOKlien 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

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## Contact

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Dealers / Agents

