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## Hospital Effluent WASTEWATER TREATMENT SYSTEM





**ECO**  
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.

**electroOgen**  
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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RECYCLE . REUSE  
WATER

#### Contact

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

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**pixecell**  
Electrocoagulation Cell



**electroOgen**  
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

