



w w w . r t e c o . i n



Dairy Industry
WASTEWATER TREATMENT SYSTEM





DAIRY INDUSTRY

Wastewater Treatment System

RT ECO Dairy Industry Wastewater Treatment System is designed to **treat dairy wastewater** containing high concentrations of nutrients – organic & inorganic contents consisting milk solids, detergents, sanitizers, milk wastes and cleaning water with high salinity levels, high microbial load including pathogenic viruses and bacteria.

Milk Processing Models

Model	Treatment Capacity (m ³ /day)	Flow Rate (Liters/hour)
RT ECO MW-5	5.0	500
RT ECO MW-10	10.0	1000
RT ECO MW-20	20.0	2000
RT ECO MW-30	30.0	3000
RT ECO MW-40	40.0	4000
RT ECO MW-50	50.0	5000

Advanced Electrochemical Effluent treatment Plant

RT ECO Advanced Effluent treatment system effectively treats dairy industry effluent which can otherwise pose potential threat to the environment and human health.

RT ECO systems regulates the pH of dairy effluents and reclaims the water for reuse.



Cheese Making Models

Model	Treatment Capacity (m ³ /day)	Flow Rate (Liters/hour)
RT ECO CM-5	5.0	500
RT ECO CM-10	10.0	1000
RT ECO CM-20	20.0	2000
RT ECO CM-30	30.0	3000
RT ECO CM-40	40.0	4000
RT ECO CM-50	50.0	5000



Dairy industry being a major user of freshwater for dairy based food production discharges upto 70% of water consumed, as effluent. The wastewater generation is primarily due to cleaning and washing operations in the milk processing plants.

Dairy Industry equipped with RT ECO Advanced Electrochemical Treatment Systems can save 75 % to 80 % of fresh water through recycling .

Whey Making Models

Model	Treatment Capacity (m ³ /day)	Flow Rate (Liters/hour)
RT ECO WM-5	5.0	500
RT ECO WM-10	10.0	1000
RT ECO WM-20	20.0	2000
RT ECO WM-30	30.0	3000
RT ECO WM-40	40.0	4000
RT ECO WM-50	50.0	5000



pixcell
Electrocoagulation Cell



electro@gen
Electro-Oxidation Cell



Control Panel

Discharge of Untreated Dairy industry wastewater causes significant threat to surface and ground water which would endanger our drinking water resources and imperil the ecosystem.

RT ECO electrochemical effluent treatment system comprises electro-coagulation as primary treatment and electro-oxidation as secondary treatment processes.

With **RT ECO System**, dairy industry wastewater with high organic, microbial load and odour is treated and discharged as reclaimed water suitable for reuse or for discharge complying with environmental regulations.



DAIRY INDUSTRY USES

2-6 m³ FRESH
WATER

PER TON OF MILK



**1 KG MILK FOOD
PRODUCTION
GENERATES**

0.5
LITERS

20
LITERS

to

WASTEWATER

80%
PERCENT

**FRESH
WATER**

CAN BE RECLAIMED FROM
DAIRY PRODUCT WASTEWATER
AND **REUSED AGAIN**





RT ECO, electrochemical effluent treatment systems are fully automatic, skid mounted, designed for continuous operation which converts effluent into reusable water.

Input - Output Parameters for RT ECO Dairy Industry Wastewater Treatment System

Parameter	Wastewater (Raw Effluent)	Treated water
pH	5.5 - 7.0	5.5 - 9.0
COD	upto 7500	≤ 300
SS	upto 3000	≤ 150

Unique Features

- Plug & play system
- Fully automated
- Instant start/stop operation
- Low 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

