

## Water & Waste Solutions



# BioCask

High Efficiency & Compact  
Domestic Waste Water Treatment

BioCask is the most efficient state-of-the-art technology\* for domestic wastewater treatment. The innovative design of the BioCask has overcome all the limitations of conventional wastewater treatment systems. The BioCask uses a first-of-its-kind unidirectional fluidization pattern, that makes efficient use of oxygen that is required for biological degradation of organic impurities. The novel design of the aeration system in the BioCask also reduces the operating cost of the treatment.

## Salient Features

- Suitable for basement installation - fits in clear height of 3.0 meters
- Improved quality of treated water - suitable for recycling
- Single stage biological treatment
- Reduced operating cost due to high oxygen transfer efficiency
- Higher biomass concentration due to unique fluidization pattern
- Better outlet parameters due to higher biomass concentration
- Modular arrangements of bioreactor for higher flows
- Minimum civil work
- Meets prevailing stringent norms

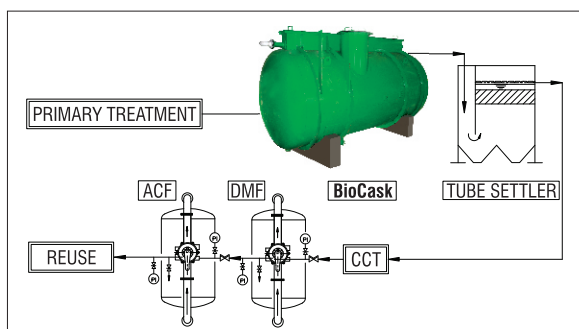
## Standard Capacities (in KLD)

50, 100, 150, 200, 250 and 300 (modular unit for higher capacities)

## Market Segments

- Housing
- Hospitality
- Industries
- IT parks
- Shopping Malls/ Commercial Complexes
- Educational Institutes

## Schematic Diagram



Achieve BOD < 5 ppm without ultrafiltration

## Inlet Design Parameter & Outlet Guarantees

Parameter	Units	Raw Sewage	Treated Sewage
SEGMENTS - HOTELS, MALLS, HOSPITALS & COMMERCIAL BUILDINGS			
Flow	KLD	50-300	50-300
pH	--	6.5-7.5	6.5-7.5
BOD	ppm	< 500	≤ 5
COD	ppm	< 1000	≤ 30
O&G	ppm	< 100	≤ 10
TSS	ppm	< 400	≤ 5

Parameter	Units	Raw Sewage	Treated Sewage
SEGMENTS - HOUSING COLONIES, EDUCATIONAL INSTITUTES & INDUSTRIES			
Flow	KLD	50-300	50-300
pH	--	6.5-7.5	6.5-7.5
BOD	ppm	< 300	≤ 5
COD	ppm	< 600	≤ 30
O&G	ppm	< 50	≤ 10
TSS	ppm	< 300	≤ 5

## Options / Add-ons (as per customer need)

- Ultra Violet (UV) System
- Ozonator
- Ultra Filtration Reverse Osmosis (RO)
- N & P removal

\*Patent Applied Vide no:- 1923/MUM/2009A

\*Thermax reserves the right to amend any product details without notice



**THERMAX**

Sustainable Solutions in Energy & Environment

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### Thermax Business Portfolio

- Heating
- Cooling
- Power Generation
- Air Pollution Control
- Chemicals
- Water and Waste Water Solutions
- Solar
- Specialised Services

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