

## 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)

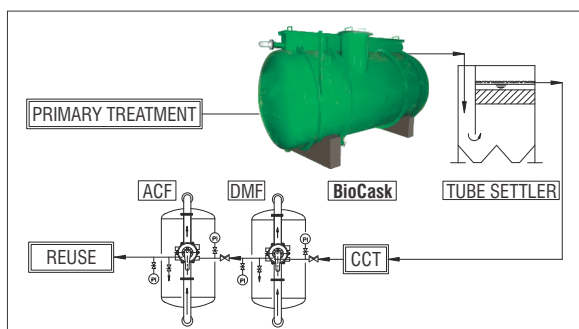
## Market Segments

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

## Schematic Diagram



Thermax is recipient of award winning technology in waste water treatment



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

### Water & Waste Solutions

98-99, General Block, MIDC, Bhosari, Pune - 411 026  
Tel. : 020 25541010  
Fax : 020 25542235  
E-mail : wws@thermaxindia.com

### AHMEDABAD

Tel. : 079 26575408/ 26577073  
Fax : 079 26577270  
E-mail : wws@thermaxindia.com

### BENGALURU

Tel. : 080 22371721 - 35  
Fax : 080 22371726  
E-mail : wws@thermaxindia.com

### CHENNAI

Tel. : 044 24303400  
Fax : 04424353841  
E-mail : wws@thermaxindia.com

### HYDERABAD

Tel. : 040 23253700  
Fax : 040 23253799  
E-mail : wws@thermaxindia.com

### KOLKATA

Tel. : 033 66070800/ 900  
Fax : 033 66070999  
E-mail : wws@thermaxindia.com

### MUMBAI

Tel. : 022 67542222 / 22852058  
Fax : 022 22040859  
E-mail : wws@thermaxindia.com

### NEW DELHI

Tel. : 011 46087200  
Fax : 011 27355211  
E-mail : wws@thermaxindia.com

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

### International offices at

Indonesia, Russia, Kazakstan, Saudi Arabia, Malaysia, Bangladesh, Belgium, Sri Lanka, China, Philippines, Thailand, UAE, Kenya, Nigeria, Brazil, UK, USA

## Thermax Business Portfolio

Water & Waste Solutions

Chemicals

Air Pollution Control

Boilers & Heaters

Absorption Cooling

Captive Power