

Simplifying Water Sewage Treatment - SeBaR

Fontus Water is a leading turnkey solution provider of water and wastewater treatment systems in India. With its decade old experience and expertise in the Indian industrial, buildings and the government segments, Fontus Water creates a blend of its industry expertise and advanced engineering technologies to deliver the revolutionary ergo Systems.

Why ergo STP?

ergo STP ensures access to the most convenient sewage treatment systems. The ergonomic design with minimum footprint and a portable ergo STP, maximizes convenience and ease of handling. Available in two models, SeBaR and CoSTaR, ergo STP offers options both on Sequential Batch Reactor (SBR) and Moving Bed Bio Reactor (MBBR) based technology.



ergo STP has the capability to treat sewage from:

- Hotels and resorts
- New and existing Condominiums
- Hospitals
- Labor camps
- Commercial complexes and offices
- Small townships and establishments

ergo STP Uniqueness

- **Modular Design:** ergo STP comes in modules – Electro mechanical module, tank module, filtration module and UF module.
- **PLC Controlled:** PLC coded with intelligent and site adaptive process logic.
- **User Friendly:** 5 preset programmable sets to select the operation process and logic.
- **Fail Safe Mechanism:** Auto detection of faults and self corrective mechanism.
- **Hibernation Mode:** Saves energy by optimizing the operation of electro mechanical components in absence of sewage.
- **Remote Monitoring:** Real time remote monitoring and control capability for operation and troubleshooting through fontus PC interface.
- **Installation:** Installation of tank module in a week and the plant is ready to commission by the end of the week.
- **Commissioning:** Self commissioning logic that can commission the STP without manual intervention giving a real plug and play advantage.
- **Operating and Maintenance :** Minimum operating and maintenance cost with optimized process operations.

Technical Specification

Inlet and Outlet Parameters

Parameters	Units	Raw Sewage	Secondary Treated Sewage	Tertiary Treated Sewage
pH	unitless	6.5 – 8.5	6.5 – 8.5	6.5 – 8.5
Biochemical Oxygen Demand (BOD ₅)	mg/L	250 – 400 mg/L	< 30	< 10
Chemical Oxygen Demand(COD)	mg/L	400 - 700	< 250	< 100
Total Suspended Solids (TSS)	mg/L	200- 450	< 50	< 10
Oil and Grease	mg/L	20 – 40	< 10	< 2
Coliforms	Nos / 100 ml	10 ⁶ – 10 ⁷	< 100	< 100



Ergonomic Design



Minimum Footprint



Maximum Convenience



Plug & Play



Easy Maintenance



Fontus Service Advantage

SeBaR (Sequential Batch Reactor)

S.No.	Specifications	Unit	Ergo SeBaR 10	Ergo SeBaR 25	Ergo SeBaR 50	Ergo SeBaR 75	Ergo SeBaR 100
1	Capacity	KLD	10	10-25	25-50	50-75	75-100
2	Electro Mechanical module						
2.01	Dimensions L x w x h	m	1.6x1.6 x1.6	1.6x1.6 x1.6	1.6x1.6 x1.6	1.6x1.6 x1.6	1.6x1.6 x1.6
2.02	Treatment technology		SBR	SBR	SBR	SBR	SBR
2.03	Material and Finish		MS Powder Coated	MS Powder Coated	MS Powder Coated	MS Powder Coated	MS Powder Coated
2.04	Connected Load	HP	6.2	13.7	20.7	31	33
2.05	Peak Load	HP	3.35	7.1	11.1	16.5	17.5
3	Tank Module						
3.01	Components		SBR and Sludge Tank	SBR and Sludge Tank	SBR and Sludge Tank	SBR, Filter feed and Sludge Tank	SBR, Filter feed and Sludge Tank
3.02	SBR Tank Dimensions Dia (m) x H (m)	m	1.84 x 3.0	2.77 x 3.0	3.69 x 3.0	3.69 x 4.0	4.61 x 4.0
3.03	Area Required* Incl of Electro- mechanical unit	m ²	6	12	20	20	30
3.04	Material and Finish		PPGI / Zinc Aluminium with HDPE / PVC Liner	PPGI with HDPE / PVC Liner	PPGI with HDPE / PVC Liner	PPGI with HDPE / PVC Liner	PPGI with HDPE / PVC Liner`
4	Filtration Module						
4.01	Components		DMF & ACF	DMF & ACF	DMF & ACF	DMF & ACF	DMF & ACF
4.02	Material		FRP	FRP	FRP	FRP	FRP
4.03	Interconnecting Pipes		PVC /PP with MPV	PVC /PP with MPV	PVC /PP with MPV	PVC /PP with MPV	PVC /PP with MPV
4.04	Dimension of each vessel (Dia x H)	inches	21 x 54	36 x 72	48 x 72	63 x 67	63 x 67
4.05	Area Required	m ²	0.75	2	3.75	7	7
5.0	Sludge Handling		Filter Cloth	Filter Cloth	Filter Press	Filter press	Filter Press

Quality Assurance

- Stringent quality checks at each stage
- High quality components selection based on customized requirements
- Components conform to international certifications including NSF, FDA, ASME and CE
- ISO 9001-2008 certified manufacturing facility
- CNC manufacturing for consistency
- Serial number control



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