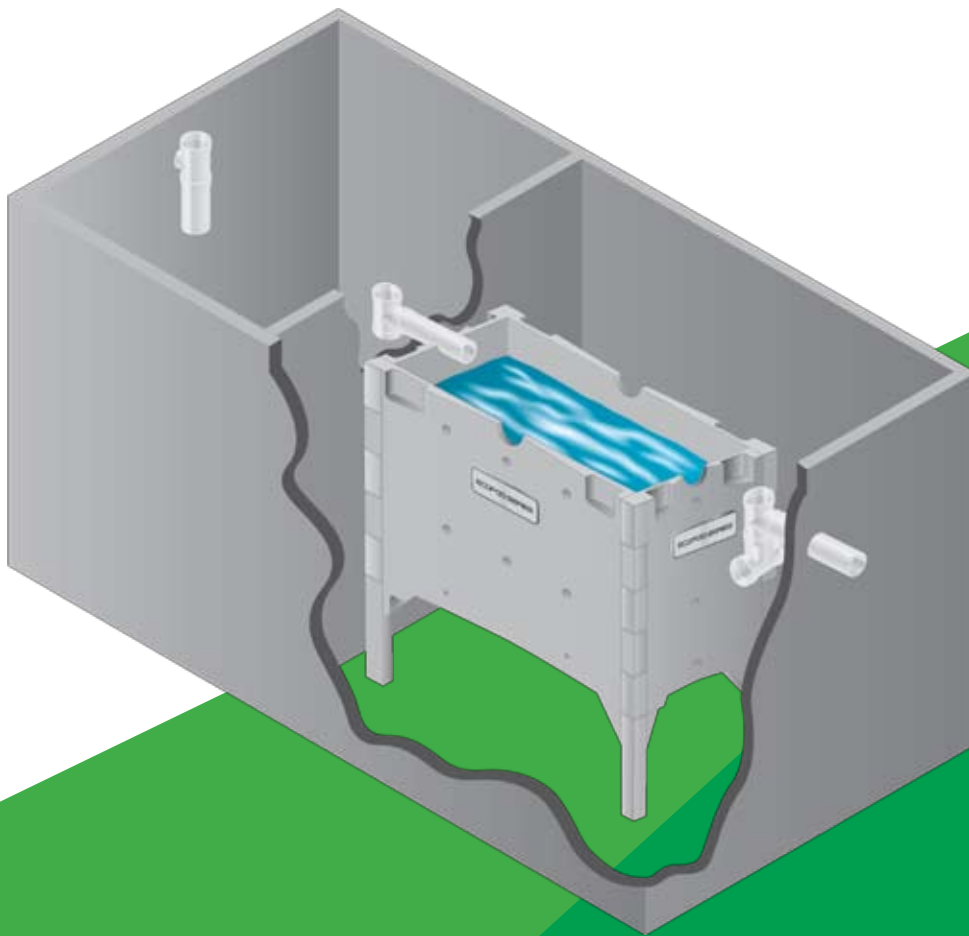




**Pentair
Water**

ECOPOD®

Commercial Waste Water Treatment System



Sludge Problem, No Problem !

Produces almost no waste sludge, hence eliminating the need for its treatment

It's Simple !

Simple to install, Simpler to operate, Simplest to maintain

Bye Bye Nutrients !

The only technology that reduces nutrients in the same reactor with BOD

ECOPOD®

The ECOPOD® Advanced Wastewater Treatment System, simple in design, requires minimal maintenance, is easy to install and highly effective in reducing the levels of Nitrogen, BOD and TSS. With over five years in development and testing, the ECOPOD® efficiently treats all three contaminants: TN/BOD/TSS.

ECOPOD® – The Future of On-site Wastewater – Available Today

What

What Is ECOPOD®

Advanced Wastewater Treatment ?

The ECOPOD® is a continuation of Pentairs' tradition of combining simplicity and technological excellence to create innovation!

ECOPOD® is an Advanced, Fixed-Film Wastewater Treatment Device from 5KLD to 500 KLD. It is tested to exceed CPCB's requirements for effluent quality.

ECOPOD® significantly reduces nutrients in the wastewater as well as BOD & TSS Nitrification and de-nitrification in a single tank.

ECOPOD® is an Intra-Tank Bioreactor that can be inserted into average-sized on-site wastewater treatment tank or vault.

ECOPOD® utilizes a Fixed Film process which is characteristically stable, reliable and sturdy. Fixed Film is a preferred treatment process in many areas for on-site wastewater treatment systems.

Ideally suited for small to medium commercial and hospitality applications.

Why

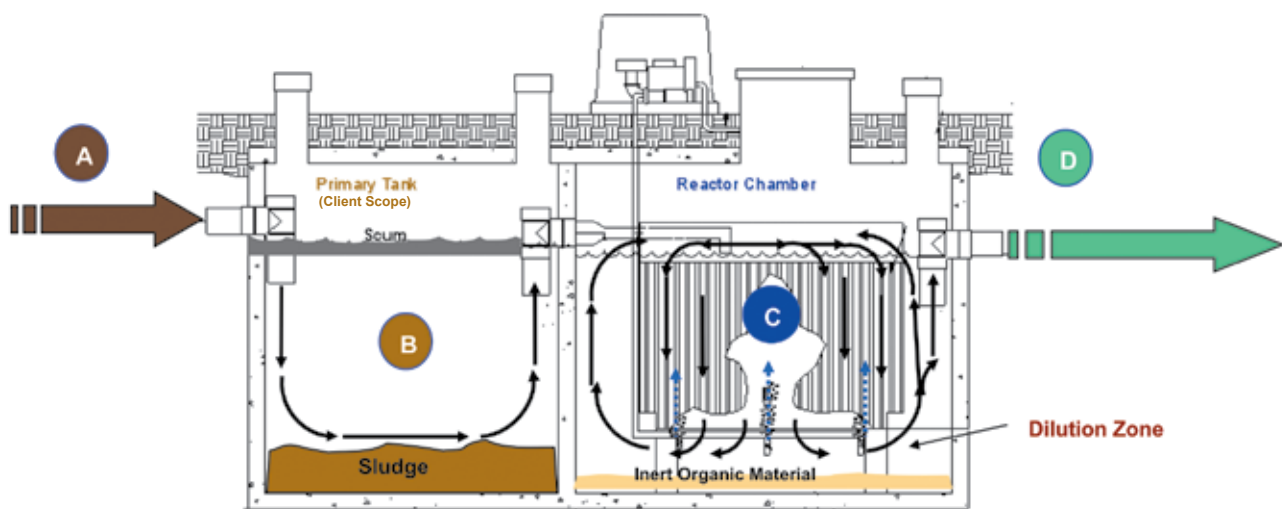
Why Use ECOPOD®

Advanced Wastewater Treatment ?

- Extremely efficient removal
- Quiet, efficient and effective
- Simply designed and self-contained
- Simple to operate
- Simple to maintain
- Minimum sludge production reduces pump out costs, hence no separate sludge treatment required
- No mixed liquor suspended solids eliminate washouts
- Longer intervals between pump outs
- Quiet operation – external aerator
- Suitable for intermittent usage
- Odorless
- Out-of-sight installation

How

How does **ECOPOD**[®] Advanced Wastewater Treatment work ?



- A. Wastewater enters system from facility
- B. Sludge settles to the bottom of the Primary Tank, scum floats to the top, and anaerobic treatment begins
- C. Wastewater enters the Reactor Chamber where it flows over the EcoPod attached growth media. Aerobically charged bacteria on the media grab the solids to begin the waste digestion process. Air from the diffuser bar energizes the bacteria and creates a circulating motion for the wastewater, causing the wastewater to continually flow over the media, which enhances the level of treatment.
- D. Cleaned effluent exits the tank to move to the disposal system

PENTAIR ECOPOD® Efficiency Data

Parameter	Unit	PENTAIR ECOPOD Inlet	PENTAIR ECOPOD Outlet	Permissible limit (CPCB)
Appearance	—	Typical	Clear	Acceptable
Color	—	Typical	Colorless	Acceptable
pH	—	6.0-7.0	6.0-8.0	5.5 -9.0
TSS	PPM	200 - 300	< 50	100
BOD	PPM	250 - 300	< 30	100
COD	PPM	500	< 100	250
TKN	PPM	50	< 25	100
Oil & Grease	PPM	50	< 10	10
Fecal Coli form	MPN/100mL	10 ⁵ -10 ⁸	<1000	1000

Comparison of PENTAIR ECOPOD® with other technologies

Parameter	PENTAIR ECOPOD	Extended Aeration	SBR	MBR	Oxidation Pond	SAFF/MBBR
Foot prints	Low	High	Medium	Low	High	Medium
Energy Consumption	Low	High	Medium	Medium	Low	Medium
Operational issues	Low	High	High	Medium	High	High
Capital cost	Low	High	Low	High	Medium	Medium
Operation cost	Low	High	Low	Medium	Low	Medium
Manual attention	Low	High	Medium	Low	High	Medium
Installation time	Low	High	Low	Medium	High	Medium
Sludge generation	Almost Nil	High	Medium	Low	Low	High
Sludge treatment	Not Required	Required	Required	Required	Required	Required
Nutrient reduction	Yes	No	No	Yes	No	No



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