

PureBLUE

PureBLUE ™ Water purification system

DESCRIPTION

PureBLUE[™] is a propriety technology offering chemical free treatment of organic rich process/wastewater, delivering high quality treated water using only electricity

APPLICATIONS

PureBLUE[™] solves treatment challenges of organic rich wastewater eliminating expensive process water handling and disposal cost across multiple industry sectors including:

- √ Pharmaceuticals
- ✓ Electronics manufacturing
- √ Food and Beverage
- ✓ Oil and gas
- √ Municipal water treatment
- ✓ Agriculture and fertilizer manufacturing
- ✓ Landfill



THE CHALLENGE

Removal of organic pollutants in H2O poses a huge challenge for cities, industries and remote locations where infrastructure is limited. Using disposal techniques such as incineration is extremely expensive and environmentally unfriendly while water consumption continues since the wastewater is not reused.

THE SOLUTION

PureBLUE™ chemical free treatment effectively destroys all organic compounds in one simple step. Using proprietary (non-consumptive) electrodes + electricity to do the hard work in either a continuous, or batch process.

BENEFITS

Destroys organic contaminants such as

- √ Naphthenic acids
- ✓ Organic aromatic compounds
- ✓ Dissolved organics
- √ Chemical-free process

Cost

- ✓ Elimination of water treatment chemicals and associated processes
- ✓ Reduction of water consumption as wastewater is recycled/re-used
- ✓ Elimination of disposal related costs
- ✓ Highly cost effective when compared to other methods

Deployment

- ✓ Modular design and re-deployable
- ✓ Standalone deployment
- ✓ Compatible with current treatment systems at different process stages
- ✓ Combined with ClearBLUE™ offers an integrated water treatment solution system

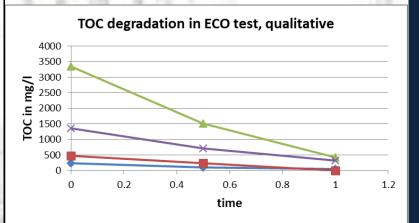


RELIABLE REPEAT PERFORMANCE

PureBLUE™		
Contaminant Description	Suspensions [*] , Emulsions [*] , Colloids [*] % Removal	Solutions % Removal
Biological oxygen demand (BOD)		90 - 99.9
Chemical oxygen demand (COD)		90 - 99.9
Total organic carbon (TOC)		90 - 99.9
Total suspended solids (TSS)	-	
Dissolved organic carbon (DOC)	-	90 - 99.9
Oil in water (OIW)		
Turbidity	0 6	
Bacteria/algae/larvae	V / III	-
BTEX (benzene, toluene, ethyl benzene, xylenes)	1 1 1	90 - 99.9
Calcium		
Cleaning agents and detergents	1 1 1	90 - 99.9
Color		90 - 99.9
Dyes		90 - 99.9
Ammonia		TBD
Antibiotics		90 - 99.9
Bisphenols	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	90 - 99.9
Dioxin		90 - 99.9
E. coli	and the second	90 - 100
Fecal matter	3 40	90 - 99.9
Hormones	3. set-	90 - 99.9
Parasites	3.00	90 - 99.9
Pesticides		90 - 99.9
Pharmaceuticals	3.00	90 - 99.9
Phosphate	MILE.	TBD
Polychlorinated biphenyl (PCBs)	199.00	90 - 99.9
Polycyclic aromatic hydrocarbons (PAHs)	The base of	90 - 99.9
Protozoans	13.3	90 - 100
Viruses		90 - 100
Latex		90 - 99.9
Polymers		90 - 99.9
Naturally occurring radioactive materials (NORM)		
Heavy Metals (As, Cd, Cr, Cu, Pb, Mn, Hg, Ni, Se)		
Thallium	-	
Silicon		







⁺ ClearBLUE™ is deployed for suspensions, emulsions, and colloidal particles removal in turbid water streams



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