

Water & Waste Solutions



KLARIMAX

Compact & Modular
Pre-treatment System

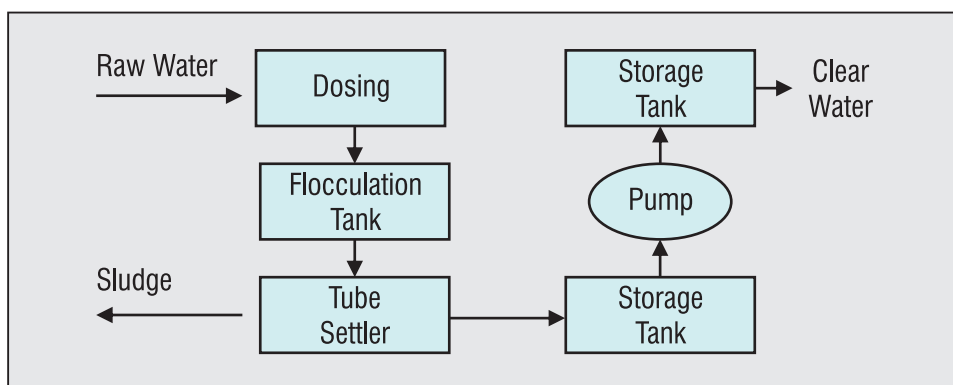
Klarimax is specially developed to cater to the reduction of suspended solids in surface water. Klarimax is designed by studying the settling & rise rates of suspended impurities under various fluctuating conditions.

Operating Principle

Flocculation & Settling: In this stage suspended matter in colloidal form is removed. Small suspended particles in the raw water are coagulated by using poly-electrolyte and coagulant at higher pH. This is then passed through a tube settler where coagulated suspended matter settles down and clearer water flows up. Coagulated suspended matter is taken out from the hopper bottom of tube settler in the form of a thick sludge. Clear water is further treated in the second stage.

Filtration: Dual Media Filter is provided after the settling units for further reduction of suspended matter to a level of <5 ppm. This filter works in pressurised condition. A clear water pump is provided at the inlet of the filter to feed clarified water.

Flow Diagram



KLARIMAX	CONVENTIONAL SYSTEM
Requires less space	Needs more space
Low power requirement	Higher power requirement
Effective feature of sludge recirculation	Ineffective at low turbidity levels
Low capital investment	Higher capital investment
Standardized, hence quicker delivery	Not pre-engineered, hence longer delivery period
Nominal civil works (only foundation)	Major civil works

Technical Specifications

Model	Flow Range (m ³ /hr)	Power of unit (kw)	Operating cycle (hrs)
KL - 04	0 - 4	6.66	20
KL - 08	4 - 8	6.66	20
KL - 16	8 - 16	6.76	20
KL - 24	16- 24	6.79	20
KL - 32	24 - 32	8.64	20
KL - 40	32 - 40	8.64	20
KL - 48	40 - 48	8.90	20
KL - 64	48 - 64	9.50	20



THERMAX

Sustainable Solutions in Energy & Environment

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