SPEC SHEET

NPE
NATIONAL PUMP & ENERGY

LAMELLA PLATE CLARIFIER

TECHNICAL DATA	
Dimensions (L x W x H)	3000mm x 2400mm x 2700mm
Gross Weight	2500kg
Chemicals	Flocculant and Polymer. pH correction if required
Optimum Flow	5-10 L/s
Containment	Self-contained. Lift with forks or chains
Operating System	Visual checks

The Clarifier is designed to speed up and manage the settlement of solids from dewatering effluent and wastewater. They can be relied upon to remove the bulk of the suspended and precipitated solids load prior to further filtration, or if managed properly, can be used to reduce turbidity enough for discharge into waterways (where pH and turbidity are the key criteria). Clarifier requirements for a given project are dependent on flow rate and analysis of the water quality. Multiple clarifiers can be run in parallel to accommodate higher flow rates and higher waste loading.

PROCESS

- Water is pumped through the inlet pipe and travels upward over the inclined plates
- If required, flocculent and polymer may be added via slow-release flocculent block or by separate dosing equipment. This is subject to influent water quality.
- Particles settle inside the clarifier and slide down into the sludge funnel.
- Accumulated particles are removed from the bottom of the clarifier as required.
- Flocculated particles continue to settle out allowing the clear water to flow upwards over the inclined plates and decant into the outlet chamber

FEATURES

- Highly effective solids separation.
- No moving parts, easy to operate.
- Simple to maintain.
- Easily expanded by adding additional units.
- Produces highly concentrated waste (low volume, less costly disposal).