MANURE SEPARATORS

To separate manure from flushed or scraped barns.
**Stainless Steel Sloped Screen Separator**

Screen separator built with variable openings to enable separation of finer fibers in a single pass.

Improves the quality of liquid in lagoons.

Processes the daily manure output up to 3 cows per minute.

Can be used to filter the irrigation liquid before the booster pump in order to prevent sprinkler clogging.

Sloped Screen framework ready to be transformed into a Two Stage Separator.

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**Working Principle of the Sloped Screen**

The Sloped Screen Separator is normally installed on a platform approximately 14 feet above a concrete dry pad.

The flush liquid enters the separator through a center mid-level intake that breaks the flush liquid velocity into an even and smooth flow across the top screen panel.

The flush liquid then gravity flows over hundreds of horizontal openings that are progressively enlarged from top to bottom in order to maintain more fibers above the screen while the liquid flows through it.

The screened liquid is rejected through the 8" gravity discharge while fibers slide off to be stacked on the concrete dry pad underneath.

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**Platform for Manure Separator**

Available to pile fibers underneath the Two Stage, the Sloped Screen, or the Roller Separator.

Reinforced platform also available to support an insulated shelter that protects the separator from freezing.

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**Two Stage Separator**

Sloped Screen combined with Rollers to process dirtier flush liquid and pile drier fibers.

Moisture content in fibers is decreased to approximately 62%, which in turn allows to compost fibers more rapidly.

Processes the daily manure output up to 3 cows per minute.

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**Working Principle of the Second Stage**

The wet fibers, sliding off the Sloped Screen above, get compressed between a rubber roller and a stainless steel screen roller before they fall on the concrete dry pad underneath.

This process brings the level of moisture in fibers down to approximately 62% all year round.

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Canadian Engineered Design.
Roller Separator

Stainless steel screen and rubber rollers that separate fibers from scraped manure in order to reduce the volume of slurry by approximately 20%.*

Reduces the moisture content in fibers to approximately 78%.

Processes the daily manure output up to 2 ½ cows per minute.

Working Principle

Slurry contained in hopper is compressed by two stainless steel screen rollers against a rubber roller, allowing to separate thick liquid, rich in nutrients, from fibers that can be stacked and composted.

Stone-Wood Collector

Mandatory to collect coarse solids before they reach the Roller Separator.

* With mandatory Stone-Wood Collector on intake line of separator.

200 US gallons hopper with 8” overflow line to keep a constant head pressure of slurry on top rollers.

3 HP motor with heavy duty belt driven cycloidal reducer.

8” gravity discharge for dirty liquid.

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