

Mata Solids Interceptor

Mata is a single-family home solid waste interceptor for protecting downstream disposal environments. Unlike bulky septic tanks that settle out wastewater solids, Mata is an aboveground separation product installed as a part of a home's building drainage system under UPC §1009.0, reducing installation cost and costly permitting delays. After dehydration and sterilization, solids can be used on-site as a soil amendment.

Features

- Reduces solids loading to disposal
- Extends cesspool life and reduces pump outs
- Excavation free, affordable installation
- No Odor
- Works with conventional plumbing fixtures
- Wifi enabled for remote monitoring
- Permitted with a plumbing permit: UPC §1009.0

Water Testing

Preliminary results of third-party water and odor testing were conducted by the University of Hawai'i.

Blackwater Solids Removal Efficiency

Total Suspended Solids: 90% Removal

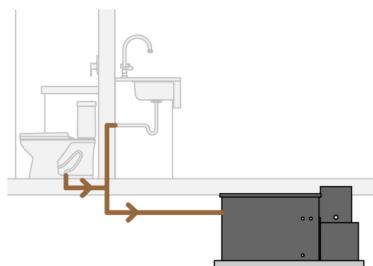
BOD5: 80% Removal (Solid Fraction)

Total Nitrogen: Up to 40% Removal (Solid Fraction)

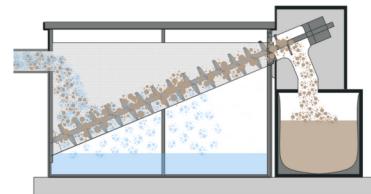


How Mata Works

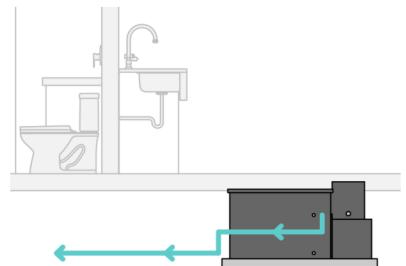
Wastewater flows into the Mata via the 3" inlet.



A screen separates solids while liquids drain to the bottom of the separator tank. An auger diverts solids to the solids bin for drying.



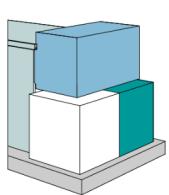
Separated liquids are pumped out via the effluent pipe to disposal.



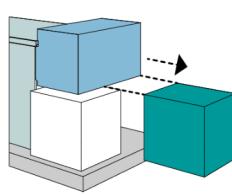
Solids Bin Exchange

Solids bin to be exchanged every 4 - 12 weeks.

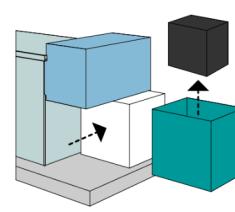
Empty Bin Weight: 10lbs (4.5 KG) || Dehydrated Solids Weight: 20 lbs (9 KG)



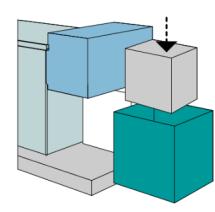
Mata runs for 4-12 weeks.



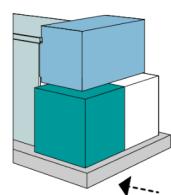
Remove solids bin with aged solids.



Withdraw aged solids.
Slide fresh bin over for aging.



Insert new solids bag.



Position empty bin to receive fresh solids.

Technical Specifications

Dimensions | 28"H, 28"W, 51"L.

Weight | 125 Lbs (57 kgs).

Power | 120 V

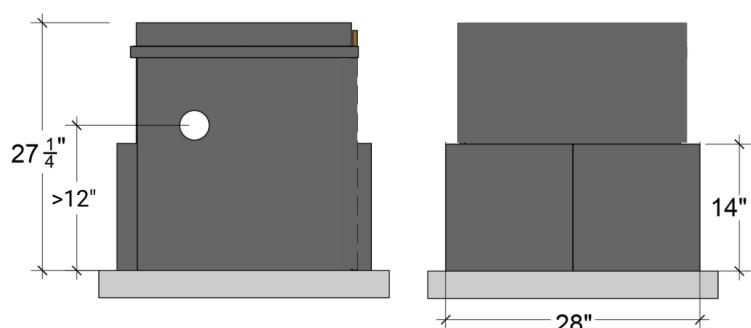
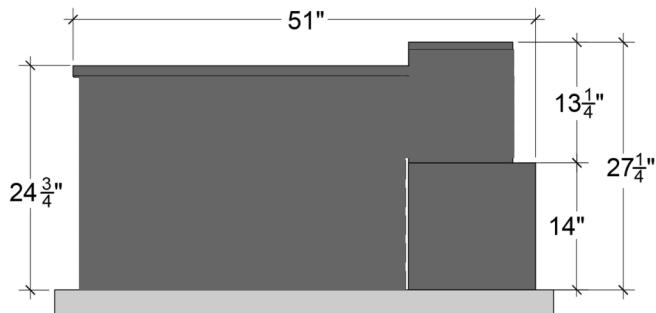
Max Amps | 10 A

Normal Power | 20W

Heater Power | 300W (intermittent)

Flow Assist Pump | 1/4 HP with gravity overflow

Material | LDPE, Fiberglass, PVC



Design Capacity

Max Capacity: 6 Live-in Adults

Max Instantaneous Flow: 5 gpm