

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.

Features

- Installed on black or mixed wastewater lines
- Reduces solids loading to disposal
- Excavation free, affordable installation
- No Odor
- Works with conventional bathroom and kitchen fixtures
- Extends cesspool life and reduces pump outs
- Wifi enabled for remote monitoring
- Permitted with a plumbing permit under UPC §1009.0



Technical Specifications

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

Weight | 125 Lbs (57 kgs).

Power | 120 V

Max Amps | 5 A

Normal Power | 20W

Heater Power | 100W (intermittent)

Flow Assist Pump | 1/4 HP with gravity overflow

Capacity | 6 Adults

Material | LDPE, Fiberglass, PVC

Plumbing Connections

A. Inlet | 16" ϕ - 3" STD Pipe

B. Vent | 16" ϕ - 1.5" ϕ

C. Treated Effluent | 15" ϕ - 1.5" ϕ

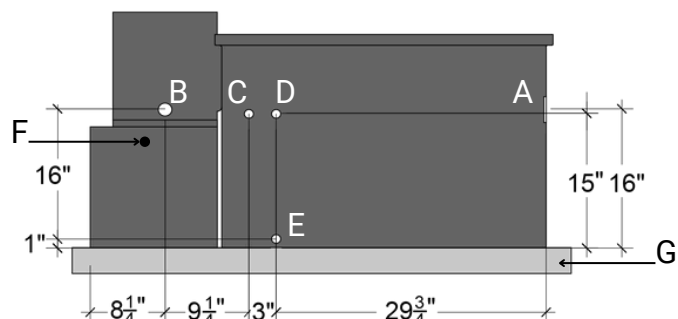
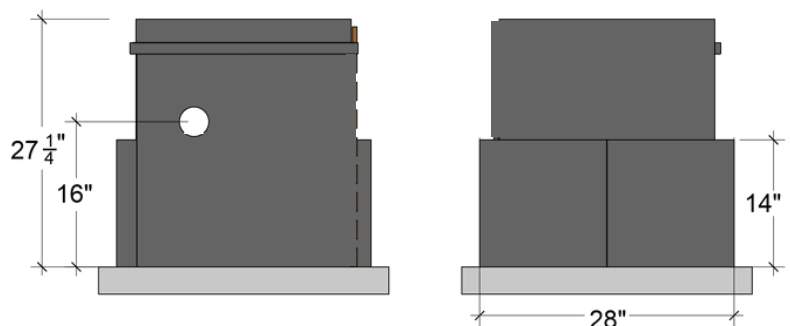
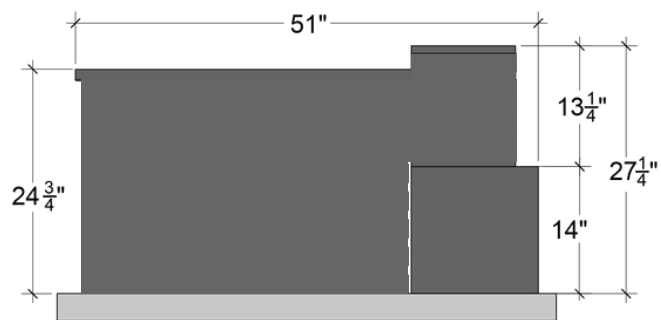
D. Overflow Drain | 15" ϕ - 1.5" ϕ

E. Emergency Drain | 1" ϕ - 1.5" ϕ

G. Foundation | 3" Slab Typical

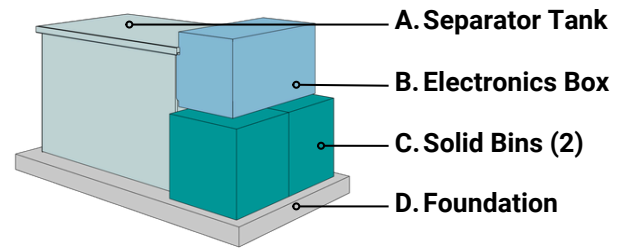
Certifications

Currently undergoing third party testing through the University of Hawai'i.



Product Components

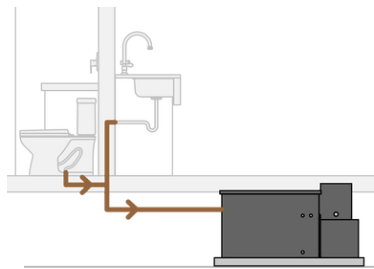
Mata separates solids from raw sewage and then dehydrates them for disposal. Inclusion of two solids bins allows one bin to be filling while the second is drying. The electronics box houses the smart monitoring system; letting you know how the system is operating and when service is needed.



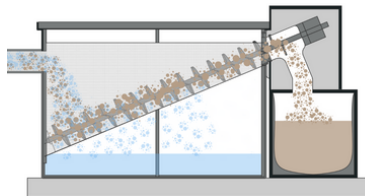
Included: 1x Separator Tank | 2x Solids Bins | 1x Electronics Box | Foundation Not Included

How Mata Works

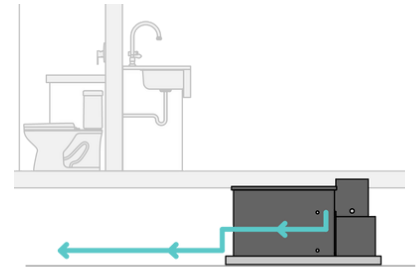
Wastewater flows into the Mata via the 3" inlet.



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



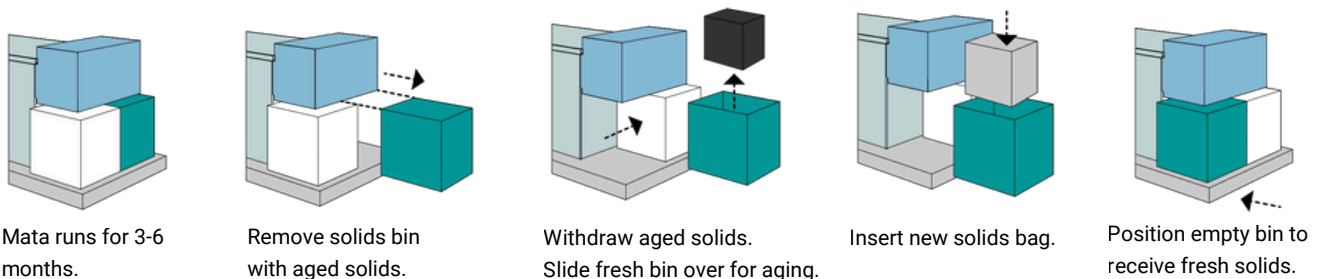
Separated liquids are pumped out via the effluent pipe to disposal.



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)

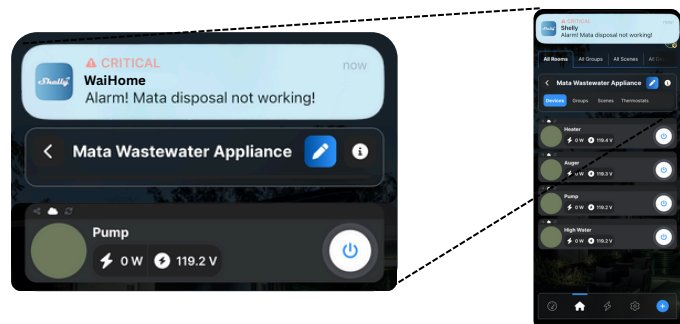


Mata Smart Features

Mata sends preventative maintenance notifications straight to your phone for:

- Pump and auger maintenance
- Intermittent solids emptying

Alternatively, subscribe to our maintenance program to have your system serviced and solids emptied by trained personnel.



2- Day Installation Process

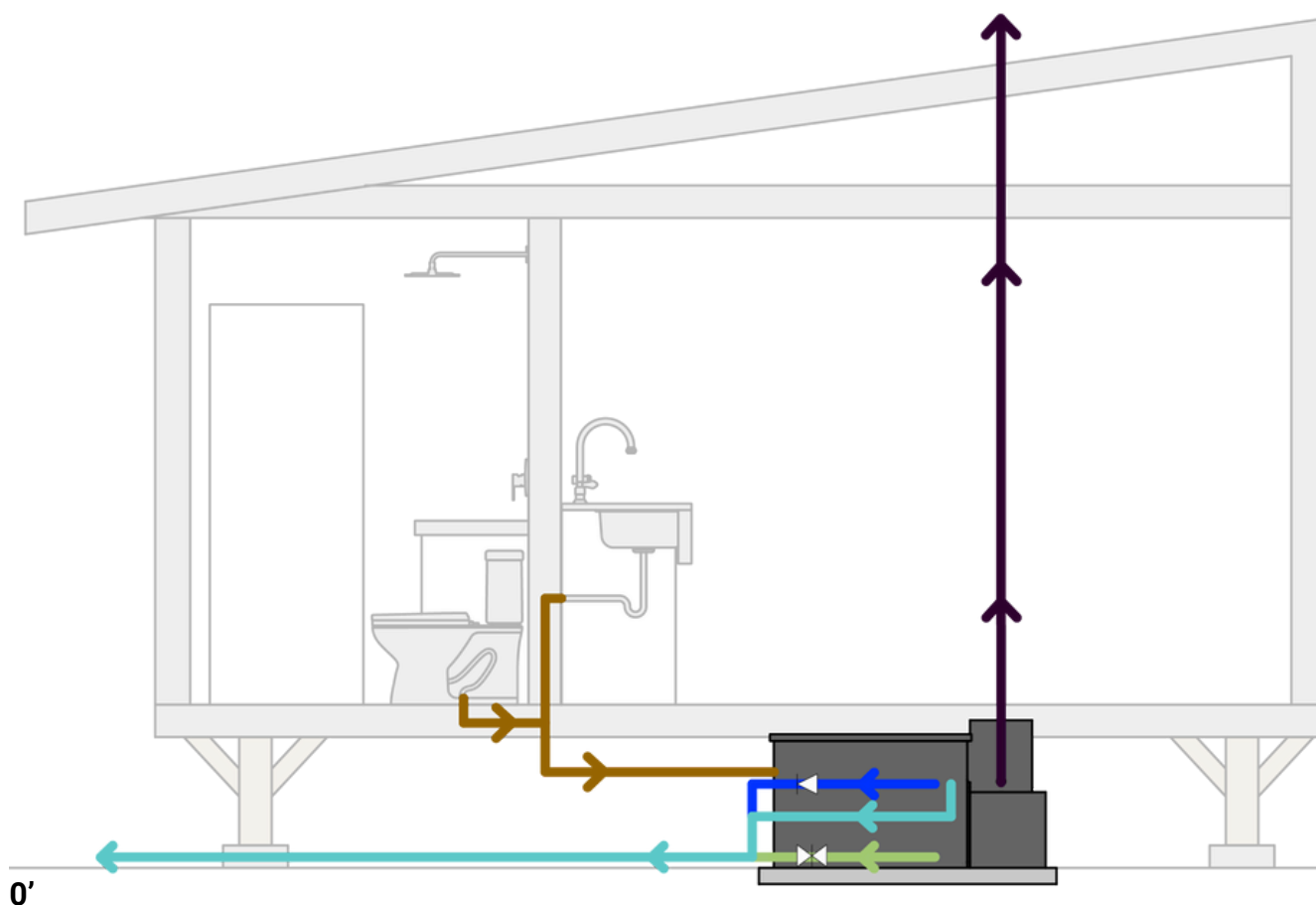
- Pour concrete slab.
- Cut 3" building drain and tie-in with approved fittings
- Connect effluent, emergency drain, overflow ports to disposal area or further treatment.
- Install vent to roof line

Design Considerations

Position: Mata can be orientated perpendicular or parallel to house.

Clearance: 3' clearance required in front of solid bins for maintenance.

Other: All installations should conform to local regulation. Not for use in regions prone to freezing temperatures.



Blackwater Solids Removal Efficiency

Total Suspended Solids: 90% Removal

BOD5: 80% Removal (Solid Fraction)

Total Nitrogen: 40% Removal (Solid Fraction)

Loading

Capacity: 6 Adults

Max Flow: 90 gpd

Max Instantaneous Flow: 5 gpm

Plumbing Diagram

■ Vent | 1.5" Ø

■ Inlet | 3" STD Pipe, Gravity fed.

■ Overflow Drain | 1.5" Ø. Route to disposal

■ Pumped Effluent | 1.5" Ø. Route to disposal.

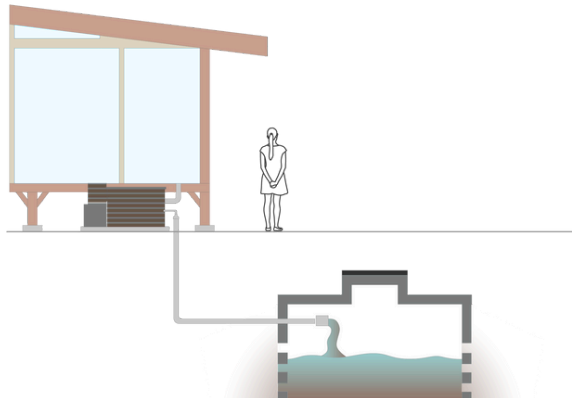
■ Emergency Drain | Gate valve.

Warranty

5 years for tanks. 3 years for all other components.

Use Cases

Mata is designed to fit the immediate needs of many homes. The following are examples of how the Mata can complement your home wastewater management.



Solids Separation for Cesspool Owners

Does your cesspool require frequent pump-outs? Are you concerned about the impacts of your cesspool on the environment?

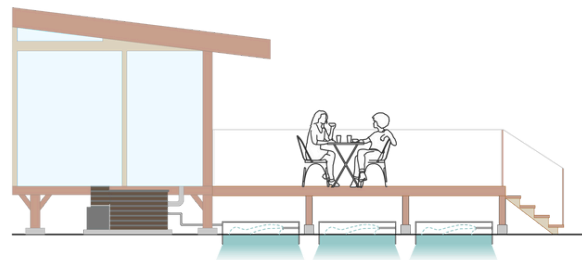
Install a Mata Solids Interceptor to protect your cesspool and the environment.

Complete Systems for New Development and Cesspool Upgrades

Are required you to upgrade your cesspool?
Are you building a new home?

We're working with regulators to allow you to install Mata with our complete aboveground solution:

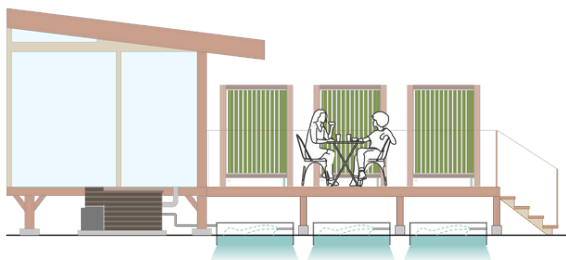
Install a Mata Solids Interceptor with Sawa liquid disposal.



Homes in Nitrogen Sensitive Watersheds

Are you looking for advanced treatment with additional dissolved nitrogen and organic removal?

Add the Passive Aerobic Treatment Unit (PATU) to your system.



Pumped Sewer Discharge

Is your community considering a liquid-only sewer collection network?

Install the Mata Solids Interceptor for reliable pumped liquid discharge to sewer.

