

Mata™ Solid Waste Interceptor Installation Checklist

Based on INS-MAN-001 Installation Manual, Rev.3 (09/26)

Project / Homeowner: _____
Installer: _____
Mata Serial No.: _____
Installation Manual Revision: _____

Installation Address: _____
Installation Date: _____
Control Panel Serial No.: _____
Engineering / Site Plan Revision: _____

IMPORTANT: This checklist is a field aid and does not replace the Mata Installation Manual, installer training, engineering plans, or applicable codes and regulations. Use the current WaiHome installation documentation and follow the system designer's specifications.

1. Pre-Installation / Site Plan

- ☐ Confirm current Mata Installation Manual is being used.
- ☐ Review engineering/site plan and confirm conditions match.
- ☐ If conditions differ, contact system designer before installation.
- ☐ If no detailed plan exists, prepare site sketch consistent with designer specifications.
- ☐ Mark locations of Mata, sewer, discharge, vent, control panel, electrical conduit, and other components.
- ☐ Confirm all materials on site plan are accounted for.
- ☐ Confirm Mata has data plate and warning labels.

Notes: _____

2. Concrete Foundation

- ☐ Mata inlet invert is accounted for at 14 in. above the top of concrete foundation.
- ☐ Mata outlet invert is accounted for at 12.375 in. above the top of concrete foundation
- ☐ Standard unit height of 27 in. is accounted for.
- ☐ Sewer stub-out invert to top of concrete pad elevation has 14 in. + 1/4 in. per ft of sewer (2% grade) minimum fall.
- ☐ Top of concrete pad elevation plus 12.375 in. to disposal system invert has a minimum fall of 1/8 in. per ft (1%).
- ☐ At least 6 in. of space is provided between the Mata and building for maintenance (2 in. between a 40-in.-wide pad and building).
- ☐ At least 10 in. of space is provided between the sewer stub-out and back of the unit.
- ☐ Standard pad dimensions, where applicable, are 40 in. W x 90 in. L x 4 in. thick.
- ☐ Foundation is laid flat (0% grade).

Measured inlet slope: _____

Measured outlet slope: _____

Pad dimensions: _____

3. Set the Mata Unit

- ☐ Place the 33.5 in. x 54 in. base plate centered at the end of the concrete pad closest to the sewer stub-out.
- ☐ Place the Mata separation tank within the base-plate guides.
- ☐ Place the solids chambers within the base-plate guides.

4. Anti-Buoyancy Kit

- ☐ Determine whether anti-buoyancy measures are required.
- ☐ Install anti-buoyancy protection if surface water could be present around the Mata at any time.
- ☐ If uncertain, consult the system designer or an engineer.

Anti-buoyancy required? Yes / No . If required:

- ☐ Situate 8x D-Ring anchors according to the installation manual.
- ☐ Using a 3/16" mm masonry bit, pre-drill 16 holes for the D-Ring anchors to a depth of 2.25 in.
- ☐ Screw down 8x D-Ring anchors with 2x 1/4" x 2-1/4" tapcons each
- ☐ Connect and tighten two 1-in. straps over both the separation tank and solids chambers.

5. Connect Transport Lines

- ☐ Dry fit the 3-in. transport line and fittings between the house sewer and the Mata unit.
- ☐ Dry fit the transport line and fittings between the Mata outlet and final discharge transport line.
- ☐ Confirm minimum fall of 1/4 in. per ft (2%) from the house sewer invert to the Mata inlet invert.
- ☐ Confirm minimum fall of 1/8 in. per ft (1%) from the Mata outlet invert to the disposal system.
- ☐ Glue all transport-line pieces in place.

6. Connect the Air Vent

- ☐ Connect 1-in. PVC vent pipe to the 1-in. vent fitting on the outlet side of the Mata.
- ☐ Slope the vent line back toward the Mata at a minimum of 1/4 in. per ft so condensation drains into the unit.
- ☐ Confirm there are no bellies in the vent line that can collect water.
- ☐ Locate the top of the vent away from windows and commonly used spaces.

7. Mount Control Panel

- ☐ Mount the panel according to the instructions supplied with it.
- ☐ Mount the panel on an exterior wall or on a 4 x 4 in. post secured to the concrete pad with a post base.
- ☐ Do not mount the panel on an exterior wall other than a garage or shop wall.

Panel Mount Location: _____

8. Connect Component and Power Cables

Electrical work should be performed by a licensed or qualified electrician.

- ☐ Connect the black component plug from the control panel to the black plug from the Mata.
- ☐ Connect the grey component plug from the control panel to the grey plug from the Mata.
- ☐ Plug the control-box power cable into a dedicated 20A, 120V outlet.
- ☐ Follow all applicable regulations and electrical codes.

9. Perform Mata Operational Test

- ☐ Remove the separation-chamber lid with a Phillips screwdriver.
- ☐ Run water into the unit it reaches the bottom of the screen.
- ☐ Turn on the 4 circuit breakers in the lower right corner.
- ☐ Verify the LOGO! PLC turns on.
- ☐ Verify the fan in the dehydrator and air filter turn on.

Heater Test

- ☐ Set the heater AUTO/OFF/MAN switch to MAN.
- ☐ Verify hot air leaves the dehydrator.
- ☐ Return the heater switch to AUTO.

Gravity Flow / High Level Alarm Test

- ☐ Set the pump AUTO/OFF/MAN switch to OFF.
- ☐ Verify the alarm turns on when water reaches the height of the emergency float.
- ☐ Verify the water leaves the unit by gravity to the disposal system
- ☐ Verify the water does not rise above the level of the disposal line

Pump / Auger / Disposal Float / Disposal System Test

- ☐ Set the pump AUTO/OFF/MAN switch to AUTO.
- ☐ Verify the auger runs.
- ☐ Verify the pump runs until the float reaches its low-level condition and shuts off.
- ☐ Verify no leaks are observed in the disposal system.

High-Level Alarm / Gravity Flow Test

- ☐ Set the pump AUTO/OFF/MAN switch to OFF.
- ☐ Run water to the tank until the emergency float switch engages and the alarm turns on.

- ☐ Press the red lit button on the front of the control panel to silence the alarm.
- ☐ Continue to run water to the tank until it flows by gravity through the unit to the disposal system.
- ☐ Verify the water level does not rise above the level of the disposal line.
- ☐ Turn off water to the tank and return the pump switch to AUTO.
- ☐ Close and secure the control panel.
- ☐ Close and screw down the Mata lid.

Operational test result: PASS / FAIL _____

Comments / corrective action: _____

10. Set Wi-Fi Connection

- ☐ Hold the Level Alarm / Wi-Fi Setup button for at least 5 seconds.
- ☐ On a cell phone, connect to the Wi-Fi network WaiHome-Setup-sm-...
- ☐ Use password: waihome-setup
- ☐ In a browser, go to <http://192.168.4.1:1880/setup>
- ☐ Enter the household Wi-Fi username and password and submit.
- ☐ Confirm with WaiHome that the unit is connected to the server.
- ☐ If needed, install a Wi-Fi extender to bring adequate signal within reach of the Mata.

11. Set Solids Change Frequency and Other Parameters

See Maintenance Manual for the procedure for changing PLC parameters.

- ☐ TimeBased: Initially ON.
- ☐ DayCounter: Initially set to 7 days when TimeBased is ON.
- ☐ MaxSolidsCnt: Set as needed if TimeBased is OFF.
- ☐ TimeBaseHeat: Initially ON. If ON, heat cycles based on schedule, if OFF, based on use.
- ☐ HeatSched: If TimeBaseHeat is ON, sets dehydration schedule. Set as needed.
- ☐ HeatCount: If TimeBaseHeat is OFF, confirm setting; reducing it increases heat-event frequency.
- ☐ HeatTime: If TimeBaseHeat is OFF, confirm setting; increasing it lengthens the heat cycle.
- ☐ Location: Set to establish sunrise / sunset times and prevent alarms during the night.
- ☐ Use conservative solids-collection settings to help prevent backups and unwanted maintenance.

Estimated Fill Cycle Time from Installation Manual

Users	Estimated Fill Cycle Time (Days)
1	60
2	30
3	20
4	14
5	10
6	7

Number of household users: _____

Initial solids-change setting: _____

12. New Bags and Mock Solids Change

- ☐ Press and hold the Solids Change button until it beeps to start the change.
- ☐ Lift the heating loop off the solids bin in the aging position (Bin 1) and place it on top of the Mata out of the way.
- ☐ Unlatch and remove the lid of Bin 1.
- ☐ Check solids bag is in Bin 1 with the top of the bag over the basket lip.
- ☐ Replace the lid and move Bin 1 to the side.
- ☐ Unlatch the collar from the neck of the bin in the filling position (Bin 2).
- ☐ Remove the vent and slide Bin 2 into the aging position.
- ☐ Unlatch and remove the lid of Bin 2.
- ☐ Check solids bag is in Bin 2 with the top of the bag over the basket lip.
- ☐ Replace the lid on Bin 2.

- ☐ Remove the bin cap from Bin 1 and place it on Bin 2.
- ☐ Move Bin 1 into the filling position and reattach the collar, vents, and heating loop.
- ☐ Press and hold the Solids Change button until it beeps to end the change.
- ☐ Verify supply of new solids bags has been ordered.

13. Activated Carbon Check and Mock Change

- ☐ Verify that the activated carbon cartridge is full.
- ☐ Verify supply of new activated carbon has been ordered.
- ☐ Unlatch and remove the lid of Bin 1.

Final Installation Sign-Off

- ☐ Site / engineering plan reviewed and installation completed in accordance with current WaiHome documentation.
- ☐ Anti-buoyancy measures completed where required.
- ☐ Transport lines and air vent completed.
- ☐ Control panel and electrical connections completed.
- ☐ Operational test completed successfully.
- ☐ Wi-Fi / server connection confirmed.
- ☐ PLC parameters set.
- ☐ Solids bags present in both bins and mock solids change completed.
- ☐ Activated carbon cartridge is full.
- ☐ Reserve supply of solids bags and activated carbon pellets have been ordered.

Installer Name: _____

Date: _____

Installer Signature: _____

Installation Result: PASS / FAIL _____

Owner / Operator Name (optional): _____

Owner / Operator Signature (optional): _____