



GRZE™ INTERCEPTOR INSTALLATION INSTRUCTIONS

WARRANTY NOTICE: Failure to adhere to these installation instructions, installation by unqualified personnel, or selecting an unsuitable product for the application may void any warranty associated with the product. *For Indoor use only.*

IMPORTANT SAFETY INFORMATION: Appropriate personal protection equipment (PPE) is required during installation of this product to minimize the risk of injury (e.g. safety glasses, hand protection, etc).

This document is intended for the installation the GRZE™ interceptor, pump out port kit, and 6 inch static extension.

**Parts may vary depending on purchased product model number.

LID ASSEMBLY



ACCESSORY BAG



PUMP OUT PORT KIT PIPE ASSEMBLY



BULKHEAD ASSEMBLY



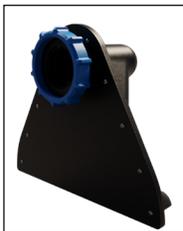
HARDWARE BAG



EXTENSION ASSEMBLY



INLET ASSEMBLY



PLUG



EXTENSION HARDWARE BAG



OUTLET ASSEMBLY



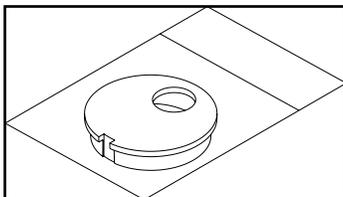
ADAPTERS



CAM AND GROOVE COUPLINGS



REDUCED OPENING FLOW CONTROL



⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

⚠ ADVERTENCIA: Cáncer y daño reproductivo - www.P65Warnings.ca.gov

⚠ AVERTISSEMENT: Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov



GRZE™ INTERCEPTOR INSTALLATION INSTRUCTIONS

STEP 1 - Unboxing the Interceptor

- Remove the interceptor from the box. **Figure 1a.**
- Remove the interceptor lid and set aside with the gasket side facing upwards in a clean location to prevent debris from adhering to the gasket.
- Remove the hardware bag and accessory bag from the unit. **Figure 1b.**

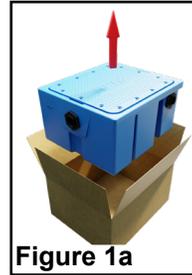


Figure 1a

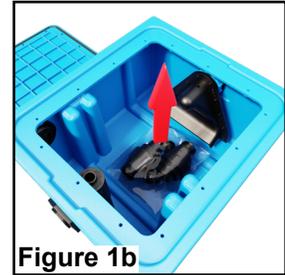


Figure 1b

STEP 2 - Install Outlet Plugs

- Take the outlet plugs out of the accessory bag.
- Seal the threads of the plugs with an approved plumbing thread sealant.
- Install the outlet plugs into the outlets that will **NOT** be used until a watertight seal is created. **Figure 2.**

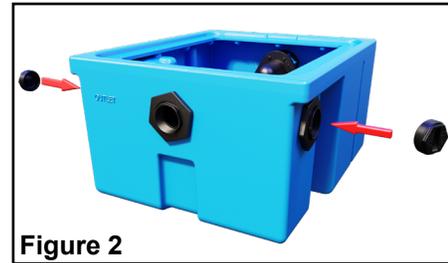


Figure 2

Note: If a pump out port kit is being installed, make sure not to install a plug in the outlet that will include the pump out port kit.

Disclaimer: Side ports can only be used as a side outlet on the GRZE-25. Side ports for GRZE-50 and GRZE-75 are for pump out port kit only.

Caution: If using side port as a side outlet on the GRZE-25, ensure outlet pickup pipe is installed on corresponding port.

STEP 3 - Install Inlet and Outlet Pipe Adapters

- Choose inlet and outlet adapters (includes 2", 3", or 4") based on building plumbing pipe size.
- Seal the threads of the inlet and outlet pipe adapters with an approved plumbing thread sealant.
- Install pipe adapters into inlet and outlet bulkheads until a watertight seal is created. **Figure 3.**
- Ensure the bulkhead nut is still hand tight plus a quarter to half turn.

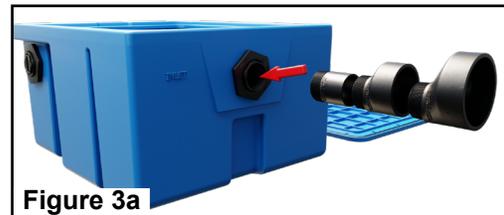


Figure 3a



Figure 3b

CAUTION: Ensure the arrow is facing upwards on eccentric adapters to prevent grease from ponding.

STEP 4 - Complete Steps 1 and 2 of "Pumpout Port Kit Installation" (If Applicable) on page 4.

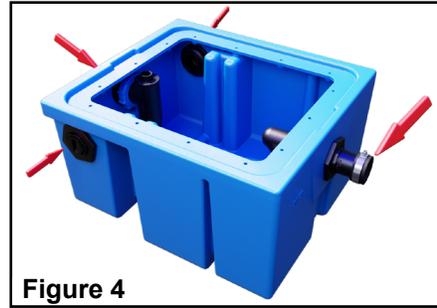
STEP 5 - Complete "Extension Installation" (If Applicable) on page 5.



GRZE™ INTERCEPTOR INSTALLATION INSTRUCTIONS

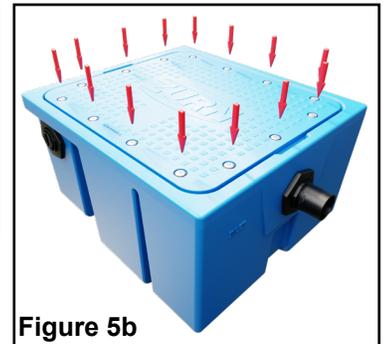
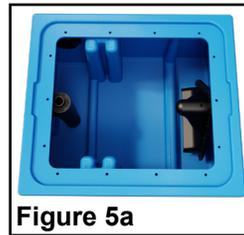
STEP 6 - Test Interceptor for Water Tightness

- Cap or plug all pipe adapters. **Figure 4.**
- Fully fill interceptor with water. Inspect unit, connections and gaskets for leaks. Ensure leak test conforms to local code requirements.
- After water tightness testing is complete, drain water from unit and remove caps or plugs from all adapters.



STEP 7 - Attach lid

- Visually inspect the gasket on the lid to ensure there is not damage.
- Confirm the lid sealing surface on the interceptor body (or extension flange if applicable) and the lid gasket are clear of debris.
- Place the lid on the interceptor and install the bolts with sealing washers (rubber surface facing down). Torque the bolts to 40-50 in-lbs. **Figure 5a and 5b.**

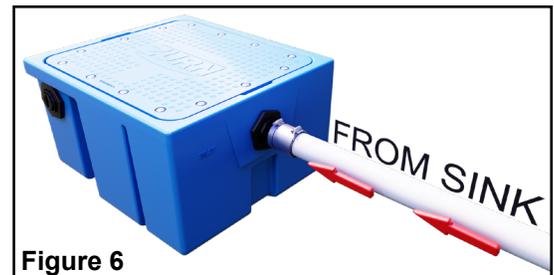


STEP 8 - Test plumbing per local codes.

Warning: Do not pressurize the interceptor.

STEP 9 - Attach Interceptor to Building Plumbing

- Connect piping to interceptor adapters using a no-hub band. **Figure 6.**
- Ensure all upstream fixtures are trapped. Vent per local code.



STEP 10 - Complete Steps 4 and 5 of "Pumpout Port Kit Installation" on Page 4 (If Required)

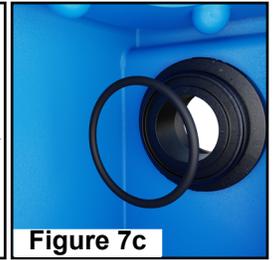
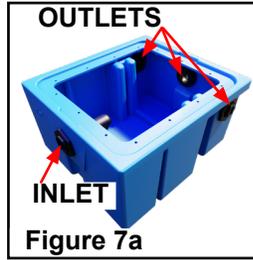


GRZE™ INTERCEPTOR INSTALLATION INSTRUCTIONS

PUMP OUT PORT KIT INSTALLATION

STEP 1 - Prepare Outlet for Pumpout Port Kit

- a. Pick an outlet for the pumpout port kit, **Figure 7a**, and ensure there is no plug installed in the bulkhead. **Figure 7b**.
- b. Remove the O-ring from the pump out port kit box and install into the O-ring groove of the outlet. **Figure 7c**.

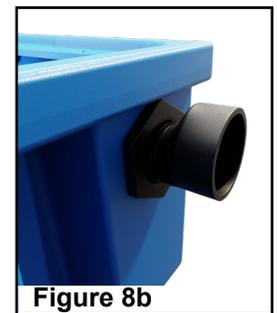


STEP 2 - Install Pipe Assembly and Adapter

- a. Remove the pipe assembly from the pump out port kit box. Install onto the outlet by threading the union nut onto the bulkhead until finger tight plus a quarter to half turn. **Figure 8a**.

Note: Ensure pumpout port kit pickup pipe is vertical for best grease removal.

- b. Remove adapter from pumpout port kit box. Seal the threads of the adapter with an approved plumbing thread sealant. Thread adapter onto the bulkhead outlet that has the pipe assembly installed until watertight seal is created. **Figure 8b**.



STEP 3 - Continue to Step 5 of “On the Floor Installation” on page 2.

STEP 4 - Pipe Installation

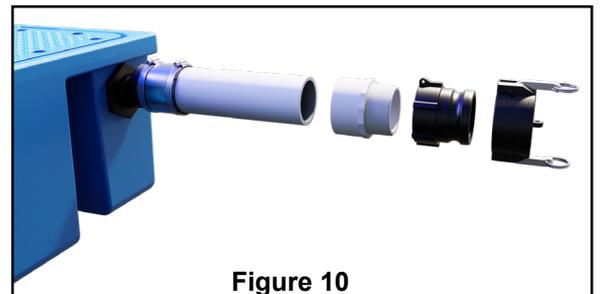
- a. Attach 3” Sch. 40 pipe to the adapter with the pumpout port kit pipe assembly. Extend this pipe to the desired location for the pump attachment. (this pipe can be sloped +/- 1/8”) **Figure 9**.

Caution: For best performance, horizontal distance should not exceed 100’ and vertical distance should not exceed 20’.



STEP 5 - Cam and Groove Coupling Installation

- a. Install a 3” threaded adapter (not provided) on the end of the piping. Ensure the threaded adapter threads are sealed with an approved plumbing thread sealant.
- b. Attach the cam and groove coupling to the end of the threaded adapter.
- c. Install the coupling cap over the cam and groove coupling and lock in place using the locking mechanism on the cap. Ensure this locking mechanism is fully locked. See **Figure 10**.



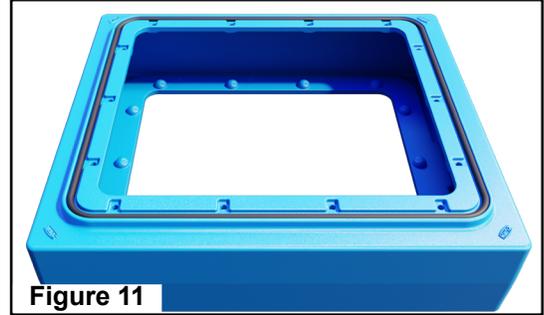


GRZE™ INTERCEPTOR INSTALLATION INSTRUCTIONS

EXTENSION INSTALLATION

STEP 1 - Unboxing the Extension.

- a. Remove the extension assembly from the box and place in a clean location with the gasket side facing upwards to prevent debris from adhering to the gasket. **Figure 11.**
- b. Place extension hardware bag (66955-468) aside.



STEP 2 - Attaching the Extension to the Interceptor

- a. Place the interceptor lid assembly in a clean location with the gasket side facing up to prevent debris from adhering to the gasket.
- b. Place the extension on the interceptor lid flange with the gasket facing down as shown. **Figure 12a.**
- c. Using the hardware from the extension hardware bag (66955-468), thread all bolts through the extension to the GRZE interceptor body as shown. Torque the bolts to 40-50 in-lbs. **Figure 12b.**

Caution: Adding multiple extensions may increase difficulty to access the internal components for maintenance.



STEP 3 - Continue to Step 6 of “On the Floor Installation” on page 3.



GRZE™ INTERCEPTOR INSTALLATION INSTRUCTIONS

Installation Considerations

Install the interceptor as close as practical to the fixture(s) being served. The interceptor may be placed on the floor, partially recessed in the floor, recessed with top flush with the floor, or fully recessed below the floor (but not buried), in order to accommodate piping and structural conditions.

Clearances above the interceptor must be greater than the height of the removable inlet and outlet assemblies of the unit to accommodate removing the cover in junction with the inlet and outlet assemblies for cleaning. Measure overall height of inlet and outlet assemblies to determine reference dimension of minimum access clearance required above the unit. Also, take into consideration the possibility of pipelines becoming clogged with congealed grease that may collect before reaching the grease interceptor.

Do not install the grease interceptor in a waste line from a garbage grinder. Garbage grinder waste must bypass the interceptor because rapid accumulation of solid matter will greatly reduce the grease interceptor efficiency, preventing operation in compliance with its rated capacity. Solid material should not be permitted to enter the grease interceptor. In an application where solids are present, a solids interceptor should be used.

A separate grease interceptor is recommended for each commercial dishwasher. The size of the interceptor is determined by the discharge rate of the dishwasher as specified by the manufacturer.

Placement of the interceptor in a high traffic area is an important concern. If the interceptor is to be installed flush with the floor, it is necessary to determine whether or not the interceptor will experience heavy-duty load traffic. The standard GRZE grease interceptor is designed for foot and light traffic only. If a greater load rating is required, an alternative interceptor must be utilized that accepts the higher load.

Flow Control

The use of a flow control device is an important factor in the operation of the interceptor. An external flow control device (Z1108) should be installed in the waste line upstream of the grease interceptor and after the last connection from the fixture(s) while remaining as close as possible to the underside of the lowest fixture. An internal flow control device should be installed in the inlet assembly of the grease interceptor. When two or more sinks or fixtures are combined and served by one interceptor, a single flow control fitting can be used. Install the supplied reduced diameter flow control for applications where distance from sink to interceptor inlet is 5 feet or greater.

The external flow control device must be properly vented to permit air to mix with the fluid entering the interceptor. Air facilitates separation and, more importantly, is necessary to maintain the proper pressure, thus, the proper operating level within the separation chamber.

Air intake for the external flow control device may terminate under the sink drain board, as high as possible, to prevent overflow or terminate in a return bend at the same height outside of the building. When a fixture is individually trapped and back vented, air intake may intersect the vent stack. All installation recommendations are subject to approval of code authority.

Venting

Grease interceptors must have a vented waste, sized in accordance with code requirements for venting traps, to retain a water seal and to prevent siphoning.

Multiple Fixture Installation

One interceptor to serve multiple fixtures is recommended only where fixtures are located close together. In such installations, each fixture should be individually trapped and back-vented.

Health and Safety

When installing interceptors use safety glasses, steel toed shoes, and gloves to prevent injuries. Interceptors must be installed per these instructions to function properly. Any installations that do not comply with these instructions could cause the unit to malfunction and not work per its intended purpose.

Caution: Grease Interceptors are tested and rated using a vented flow control with a properly sized orifice. Failure to use the vented flow control with properly sized orifice that is provided with the unit will result in improper function and performance. This could cause grease to bypass the unit.



GRZE™ INTERCEPTOR INSTALLATION INSTRUCTIONS

MAINTENANCE

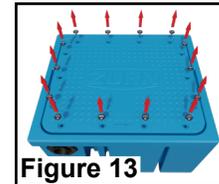
General Considerations

Design and installation are key factors to the operation of a grease interceptor. However, without disciplined maintenance, most performances are lost. For a manual interceptor to perform as designed, a strict maintenance schedule must be adhered to. If adequate maintenance is not performed, excessive grease buildup will occur until water laden with grease passes directly through the unit. Therefore, no matter how efficient the design or how proper the installation, grease interceptors perform only as well as the maintenance routine allows.

Cleaning

All grease interceptors must be cleaned regularly. The frequency of grease removal is dependent upon the capacity of the interceptor and the quantity of grease in the wastewater. Grease removal intervals may therefore vary from once a week to once in several weeks. When the grease removal interval has been determined for a specific installation, regular cleaning at that interval is necessary to maintain the rated efficiency of the interceptor. After the accumulated grease and waste material has been removed, the interceptor should be thoroughly checked to make certain the inlet, outlet, and air relief ports are clear of obstructions. Cleaning can easily be performed by following the steps listed below:

1. Loosen and remove the fasteners securing the lid to the interceptor body. **Figure 13.**



2. Remove the lid.
3. Clean out any liquid grease by skimming it from the top surface.
Remove any remaining solid material with a nonmetallic spade or shovel.
4. Run hot water through inlet and outlet to clear out any remaining grease.



5. If there is a potential clog in inlet or outlet, remove the inlet or outlet assembly from the bulkhead by unthreading the blue union nut as shown in **Figure 14**. Once clog is cleared out of piping, ensure the O-ring is installed in the bulkhead O-ring groove (See **Figure 15**) and install inlet/outlet assembly onto bulkhead by threading the blue union nut until hand tight plus a quarter to half turn.



6. Wipe down the inlet and outlet assemblies, disposing of grease in a proper waste container. Ensure the inside surfaces of the inlet and outlet assemblies are clear of grease and debris.
7. Using a clean water supply, hose down and wipe the inside of the body.
8. Insert the O-rings into the inlet and outlet bulkhead O-ring grooves.
9. Attach the cleaned inlet and outlet assemblies back onto the bulkheads they were attached to. **Figure 16a** and **Figure 16b.**



10. Ensure that the cover gasket material is intact and in good working condition. Replace gasket material if it is damaged (Refer to Gasket Installation Instructions Form IT116).
11. Securely refasten the cover. **Figure 17.**



12. Fill the interceptor up with water prior to normal use.

Health and Safety

When cleaning grease interceptors of grease be careful to wear protective gear and/ or use a professional cleaning service to remove and dispose of the grease.



GRZE™ INTERCEPTOR INSTALLATION INSTRUCTIONS

Troubleshooting Guide			
Problem Area	Cause	Effect	Solution
Inlet/Outlet Pipe	Improper slope of the outlet pipe	Solids settling too early which can cause blockages	Ensure the inlet and/or outlet pipe is level (or in accordance to local code) NOTE: Pipe can be sloped +/- 1/8"
	Improper slope of the inlet pipe	Poor flow/separation leading to poor performance	
Air Release By Pass (ARBP)/Diffuser	Clogged vents	Slow drainage, odors, pressure problems, separation issues, etc.	Ensure ARBP and diffuser are clear of any debris, blockages, or grease buildup
Interceptor Body	Uneven level of the interceptor body	Uneven flow, leading to poor separation and incorrect water level height during performance	During installation, ensure the body is level on all sides after setting the body in its location NOTE: If interceptor is recessed in the floor, recheck the level AFTER concrete backfill or soil compaction
Sealing Gasket	Unsealed gasket	Odors, leaks, potential safety hazard, poor performance	NOTE: Replace gasket if it becomes worn, cracked, or damaged in anyway
	Surface where gasket seals is dirty, greasy, or covered in debris		Clean the sealing surface on the interceptor body where the gasket seals of any dirt or grease and ensure that there is no debris from worksite or burrs from production that will hinder performance
	Gasket does not adhere to the lid		Install the gasket per the gasket instructions and make sure to clear the gasket slot of any dirt, grease, or debris that may have built up from performance or transportation
	Gasket seam is not located at a hole location		Ensure gasket is installed per the gasket instructions. The seam of the gasket should line up with a hole location on the lid
Lid Hardware	Hardware not torqued enough	Air gets inside the unit and causes poor performance	Ensure each bolt (and washer) is torqued to the range specified and tightened in a star pattern
Full Assembly	Unit has not had routine maintenance or cleaning	Slow performance/poor performance, leaks, safety hazard	Interceptors should be routinely maintenance, pumped, and cleaned. Full maintenance, service, and cleaning suggestions are included in the instructions
Any Outlet Location	Threads are not sealed with plumbing thread sealant	Unit leaks, poor performance	Seal all threads with an approved plumbing thread sealant NOTE: Examples are included in the installation instructions
	Bulkhead or plugs are not tightened as should be		Ensure all bulkheads and plugs are hand tight + a quarter to a half extra turn (1/4-1/2) NOTE: Images are included in the installation instructions NOTE: Can use channel locks or a pipe wrench for the extra turn



GRZE™ INTERCEPTOR INSTALLATION INSTRUCTIONS

Troubleshooting Guide

Problem Area	Cause	Effect	Solution
Inlet/Outlet Assembly	Inlet and/or outlet assemblies are rotated/twisted	Poor performance/flow issues	During installation and tightening of bulkheads, ensure the inlet and outlet assemblies on the inside stay stationary
Bulkhead Assembly	Forgotten O-ring in assembly	Bulkhead assembly will not seal properly, which risks leaking and poor performance	Follow the instructions carefully and thoroughly to ensure the O-ring is/was assembled during installation

