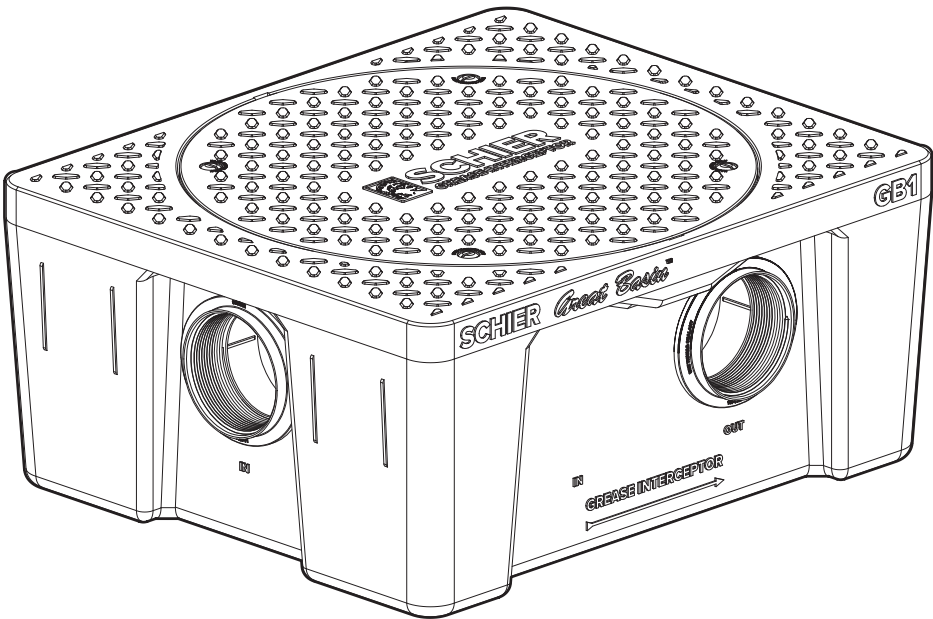


INSTALLATION GUIDE



Failure to follow this guidance
voids your warranty

GB1 20/25 GPM Great Basin® Indoor Grease Interceptor



Contents

Special Precautions	2-3
Getting to Know the GB1	4
On the Floor Installation	5-7
Buried Installation	8-10

Read all instructions prior to installation. This interceptor is intended to be installed by a licensed plumber in conformance with all local codes.



SCHIER

LIFETIME GUARANTEED **GREASE INTERCEPTORS**

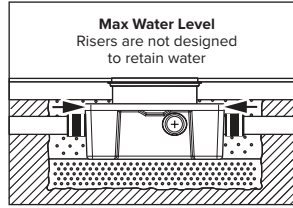
SPECIAL PRECAUTIONS



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Pressure Testing Indoor

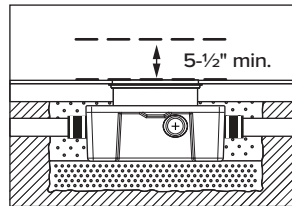
Do not air test the interceptor or riser system. Doing so may result in property damage, personal injury or death. The interceptor is intended for open system (vented) gravity drainage use only and should not be used in closed system pressure applications.



Before installation, the interceptor should be tested for water tightness. See page 5 for details. The risers are not designed to retain water and should not be water tested.

Required Clearance Above Covers

Allow at least 5½" of clearance above the interceptor for routine maintenance.



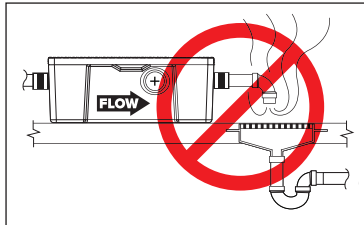
High Temperature Kitchen Water

Wastewater entering the interceptor should not exceed 150° F. If wastewater temperatures will exceed 150° F, a drain water tempering valve (DTV) should be installed to cool the water.

ODOR ALERT!

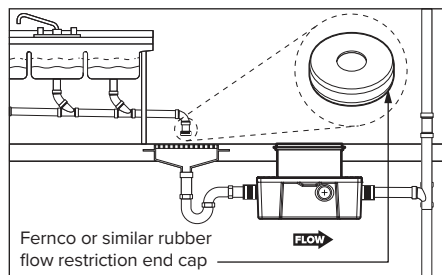
The interceptor is not a sewer gas trap. All upstream fixtures must be trapped.

Do not install an air gap on the outlet side of the interceptor.



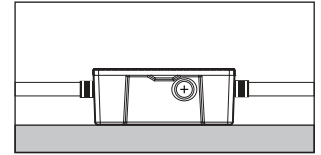
Indirect Connections

If your dishwashing sink(s) discharges into a floor drain/sink (drain), you may regulate the flow into the drain to avoid an overflow of water onto the kitchen floor. This can be done by installing a valve or flow restriction cap on the sink piping that discharges into the drain.



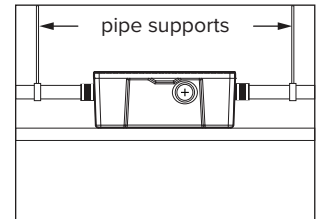
Fully Support Base of Unit

The interceptor should be installed on a solid, level surface in contact with the entire bottom footprint.



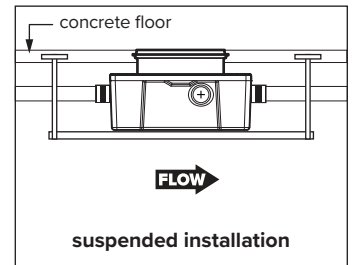
Support Piping

Inlet and outlet piping must be properly supported.



Suspended Installations

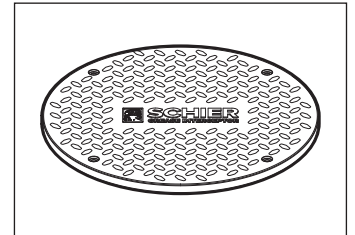
Design the trapeze to support the wet weight of the interceptor. Fully support the base of the interceptor by installing on a solid, level surface in contact with the entire bottom footprint. Do not partially support with metal u-channel.



Indoor Cover - Polypropylene

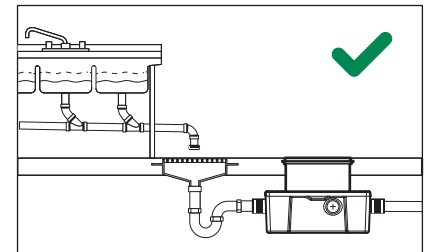
C21M bolted polypropylene covers should be used for above grade and pedestrian rated applications. Not recommended for outdoor use.

Polypropylene cover, bolted 21", pedestrian rated to 450 lbs



Indoor Installation Only

The GB1 is recommended for indoor installation only and should not be installed outdoors.



SPECIAL PRECAUTIONS



Failure to follow this guidance voids your warranty

High Groundwater Levels

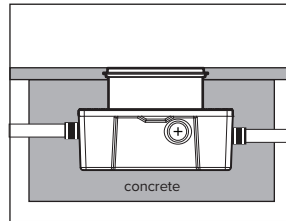
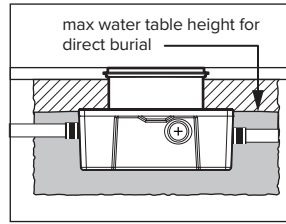


High Groundwater Level Warning:

The GB1 should not be exposed to groundwater. If there is risk of exposure to groundwater, please consider a larger interceptor model (minimum GB-50).

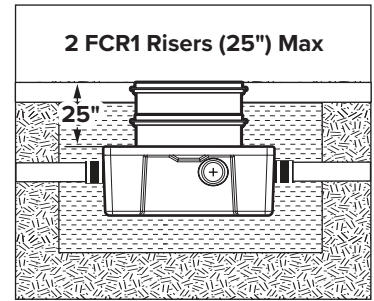
Additional Protection Required: If the GB1 is at risk of being exposed to groundwater, it must either be encased in concrete or installed inside a watertight concrete vault. Please contact Schier for concrete encasement guidance. The watertight concrete vault design by others.

Note: High risk areas include coastal regions, floodplains and other areas susceptible to excessive stormwater accumulation. When available, consult the geotechnical report to determine the elevation of the seasonal high groundwater level.



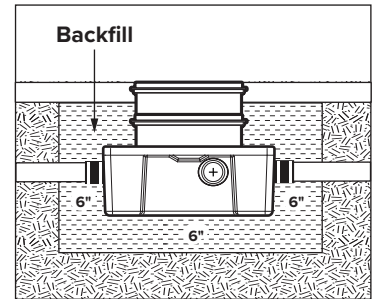
Maximum Burial Depth

The interceptor should not be buried deeper than 25" from the top of the unit to grade.



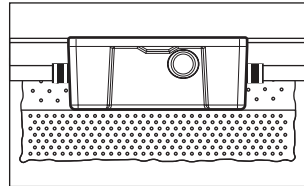
Approved Backfill

Backfill must be clean, crushed stone approximately 1" in size (AASHTO M43 Size #57 or similar) free of debris and fines. **Native soil and sand are not approved backfill materials.**



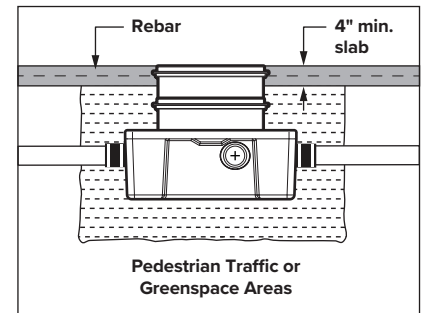
Flush-to-Grade Burials

Flush-to-Grade buried installations (without a riser) are not recommended for heavy foot traffic areas without the use of an internal gusset support kit **SGK2** (for GB2) or **SGK3** (for GB3). *Flush-to-grade burials should be located away from heavy foot traffic areas when possible.*



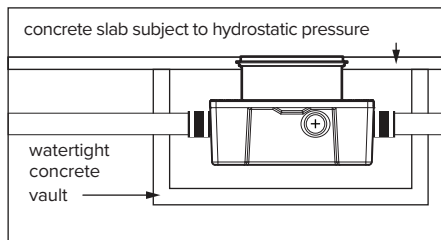
Concrete Slab Required at Grade

A concrete slab at grade is required for all buried applications. See page 10 of 10 for details.



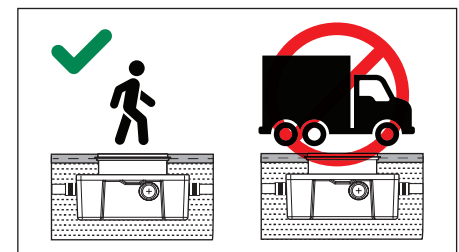
Hydrostatic/Pressure Slabs

Hydrostatic Slabs are designed to withstand upward groundwater pressure and water infiltration when the slab is located at an elevation lower than the water table or high groundwater level. Schier interceptors and risers should not be directly buried underneath a hydrostatic slab. If the interceptor and risers will be located underneath a hydrostatic slab, they must be installed inside a watertight concrete vault.



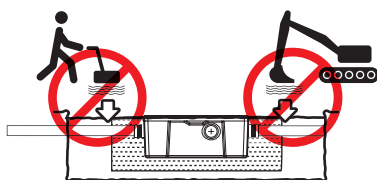
Pedestrian Traffic Only

The GB1 should not be installed to receive vehicle traffic.

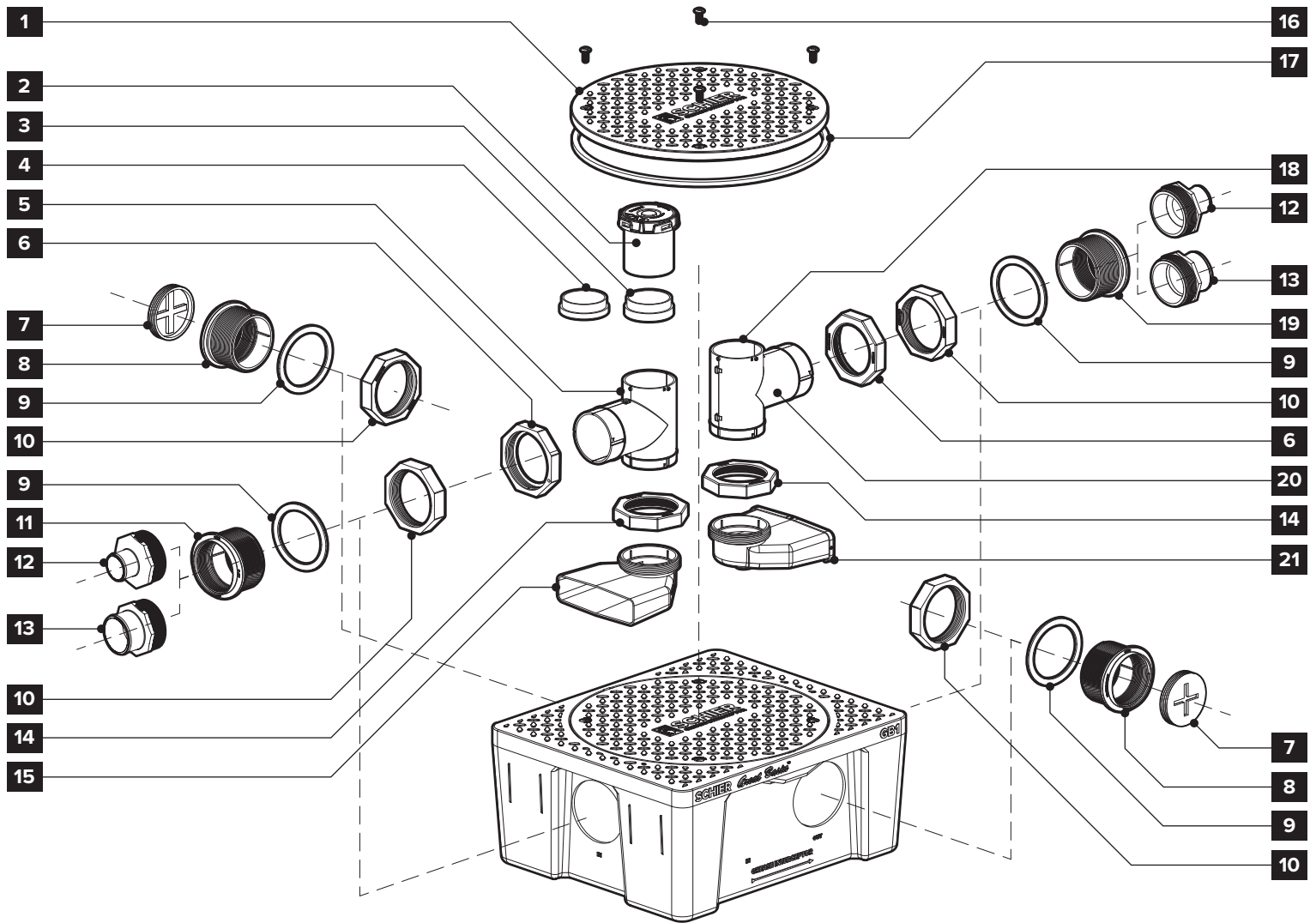


DO NOT COMPACT BACKFILL

Compact by hand only



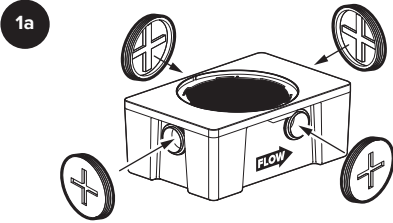
GETTING TO KNOW THE GB1



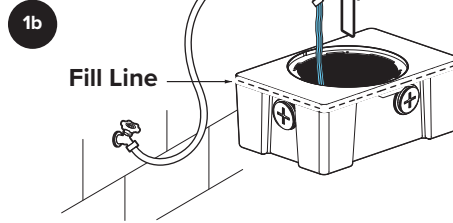
- | | | |
|---|---|---------------------------------------|
| 1. Cover | 7. 4" Cleanout Plugs (x2) | 14. Diffuser Foot Retaining Nuts (x2) |
| 2. Standard Installation Flow Control Cartridge | 8. Optional Side Outlets 4" FPT (x2) | 15. Inlet Diffuser (Foot) |
| 3. 20 GPM Flow Control Extension (>5' below kitchen only) | 9. Connection Fitting Gaskets (x4) | 16. Cover Bolts (x4) |
| 4. 25 GPM Flow Control Extension (>5' below kitchen only) | 10. Bulkhead Connection Retaining Nuts (x4) | 17. Cover Gasket |
| 5. Inlet Diffuser (Top) | 11. Inlet 4" FPT Connection | 18. Air Relief/Visual Access |
| 6. Diffuser Retaining Nuts (x2) | 12. 2" Plain End Fittings (x2) | 19. Outlet 4" FPT Connection |
| | 13. 3" Plain End Fittings (x2) | 20. Outlet Diffuser (Top) |
| | | 21. Outlet Diffuser (Foot) |

ON THE FLOOR INSTALLATION

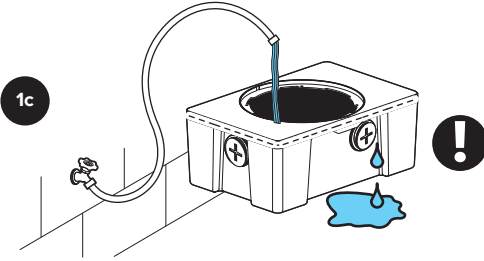
1 Test Tank for Water Tightness



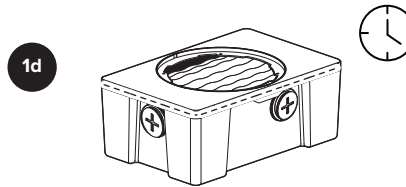
Cap all interceptor connections with the 4" cleanout plugs provided. Use pipe thread sealant or tape approved for use with plastic.



Remove cover and fill the interceptor with water to above the highest connection.



Inspect the interceptor body, connections and gaskets for leaks.



Check the water level inside the interceptor at specific intervals per code.

Have a Leak?
Call customer support at
913-951-3300

2 Configure Outlet Diffuser

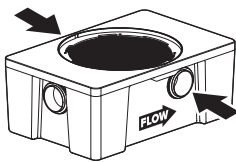
The GB1 is manufactured with three outlets. Only one outlet will be connected to the drainline and the other two must be capped with the 4" cleanout plugs provided. The outlet diffuser comes pre-installed on the straight through end wall outlet connection.

If the straight through outlet connection will be used, **go to Step 2c.**

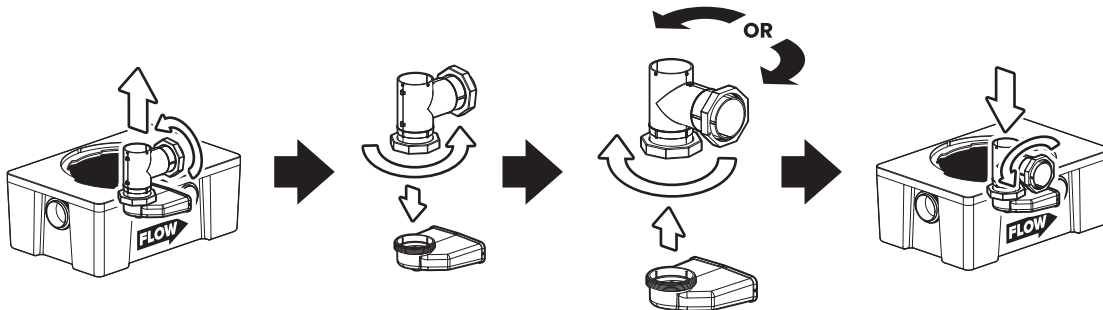
2a Choose the appropriate side outlet location

Side Outlet:

Go to Step 2b.



2b Reposition outlet diffuser from the straight through outlet to the chosen side outlet



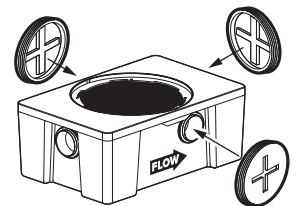
Untighten the green diffuser retaining nut and remove outlet diffuser.

Untighten the green diffuser foot retaining nut and remove outlet diffuser foot.

Rotate diffuser toward chosen outlet, replace foot ensuring it will point to the back wall of the unit and hand tighten the green foot retaining nut.

Insert diffuser into chosen outlet and hand tighten the green diffuser retaining nut.

2c Cap unused connections (all configurations)

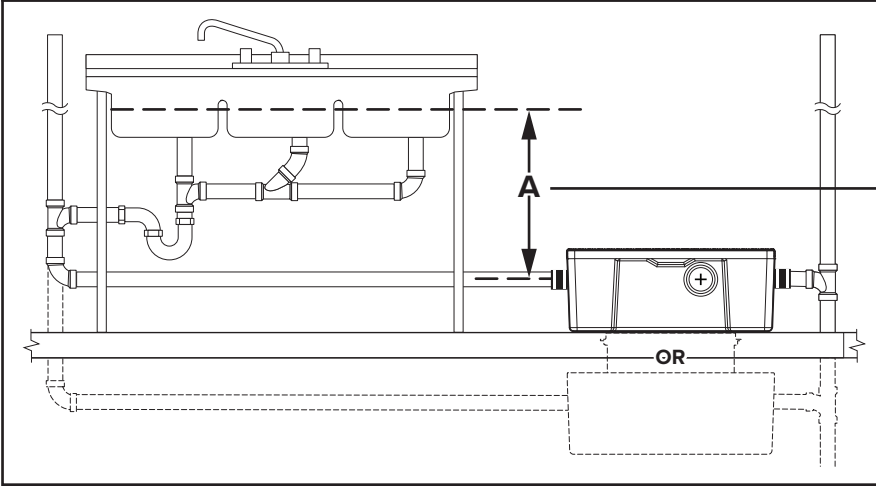


Cap the remaining two unused outlet connections with the 4" cleanout plugs provided using thread sealant or tape approved for use with plastics. **Do not cap the inlet or outlet connections with diffusers.**

ON THE FLOOR INSTALLATION

3 Calibrate Flow Control

Figure 1

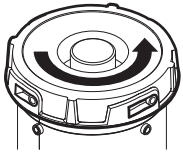


Note to Plumbing Inspector This interceptor includes certified internal flow control and does not require a dedicated “Flow Control Vent” (air intake).

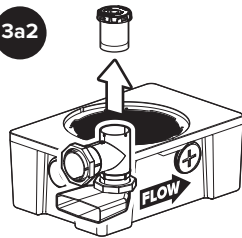
The flow control for the GB1 comes pre-installed

- If dimension **A** is 5 feet or less discard red extension parts, then **go to Step 4.**
- If dimension **A** is greater than 5 feet **follow Steps below.**

3a1

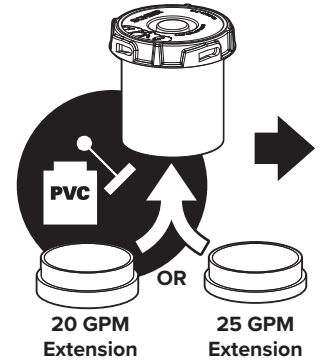


3a2



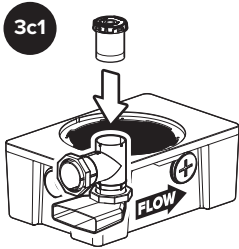
3b

Depending on which flow rate is desired, attach either the 20 or 25 GPM Flow Control Cartridge Extension using PVC primer/cement. **Make sure extension is fully inserted into the cartridge and hold both components firmly together (until cement grabs) to prevent push-out.**

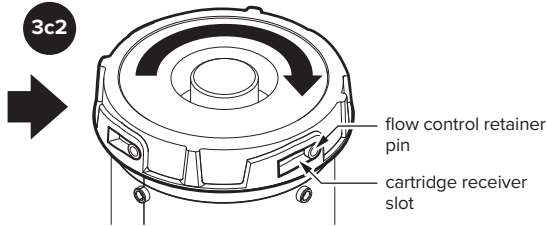


Rotate flow control cartridge counter-clockwise to release and remove from inlet diffuser

3c1



3c2



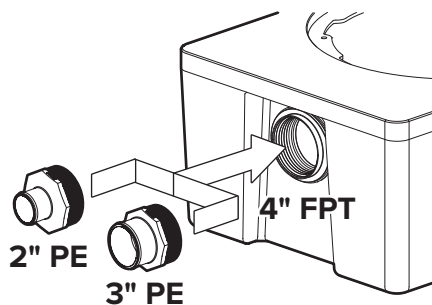
Slide flow control cartridge into top of inlet diffuser and rotate clockwise until cartridge drops onto flow control retainer pins. Continue rotating clockwise until pins are fully seated.

ON THE FLOOR INSTALLATION

4 Connect Piping to Interceptor

4a

Choose inlet and outlet fittings (included) based on pipe size and screw into the inlet and outlet bulkhead fittings on the interceptor using pipe thread sealant or tape approved for use with plastics.

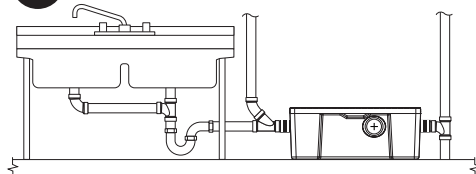


4b

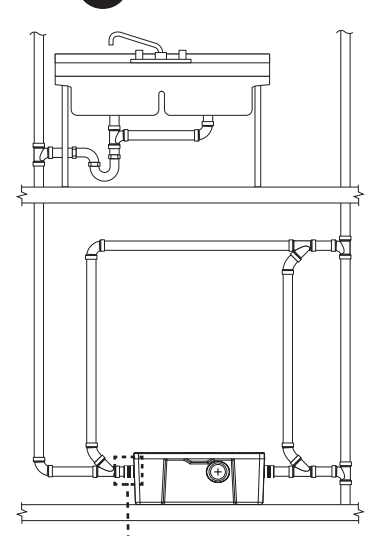
Place the interceptor on a solid, level surface in contact with the entire bottom footprint. Mechanically couple the inlet and outlet fittings to the drainline using a flexible coupler. **Do not glue or solvent weld.**

Notes: Ensure all upstream fixtures are trapped. Vent the drainline per local code. The installation of 2-way cleanout tees to grade is recommended for buried installations.

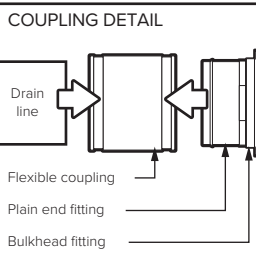
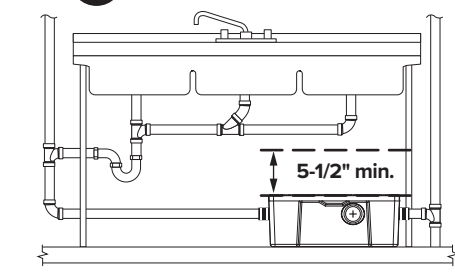
4b1 Next to Sink



OR 4b3 Floor Below



OR 4b2 Under Sink



5 Wet or Air Test Piping Per Local Code

⚠ WARNING! DO NOT AIR TEST UNIT OR RISER SYSTEM!
Doing so may result in property damage, personal injury or death.

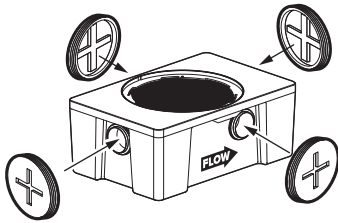


Leak? Call customer care at 913-951-3300

BURIED INSTALLATION

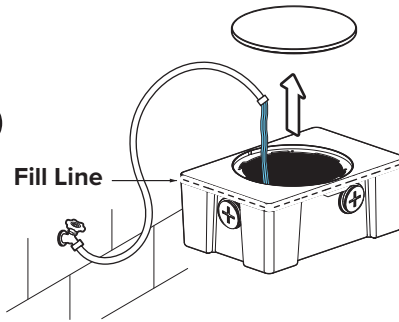
1 Test Tank for Water Tightness

1a



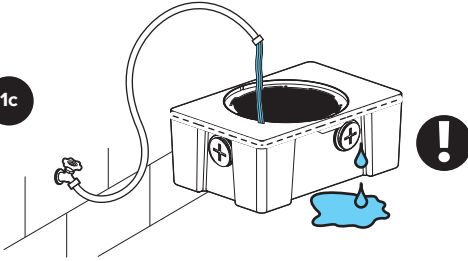
Cap all interceptor connections with the 4" cleanout plugs provided. Use pipe thread sealant or tape approved for use with plastic.

1b



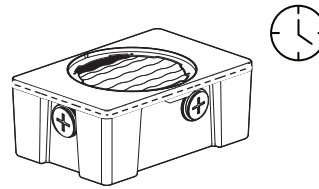
Remove cover and fill the interceptor with water to above the highest connection.

1c



Inspect the interceptor body, connections and gaskets for leaks.

1d



Check the water level inside the interceptor at specific intervals per code.

Have a Leak?
Call customer support at
913-951-3300

2 Configure Outlet Diffuser

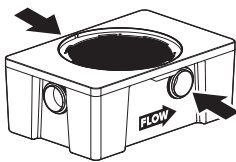
The GB1 is manufactured with three outlets. Only one outlet will be connected to the drainline and the other two must be capped with the 4" cleanout plugs provided. The outlet diffuser comes pre-installed on the straight through end wall outlet connection.

If the straight through outlet connection will be used, **go to Step 2c.**

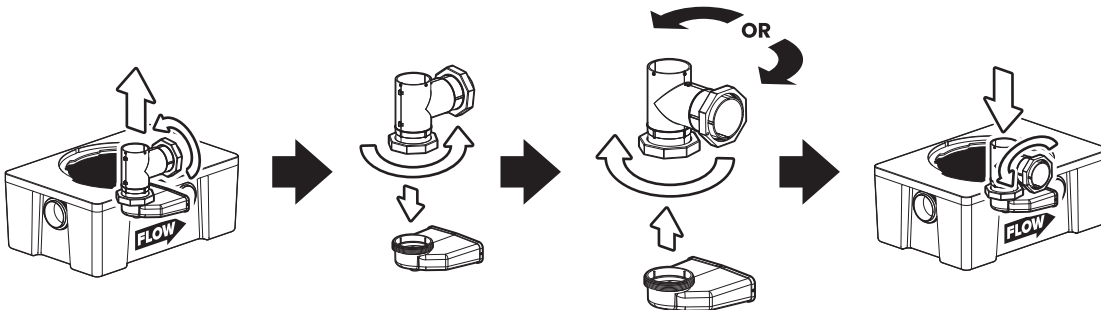
2a Choose the appropriate side outlet location

Side Outlet:

Go to Step 2b.



2b Reposition outlet diffuser from the straight through outlet to the chosen side outlet



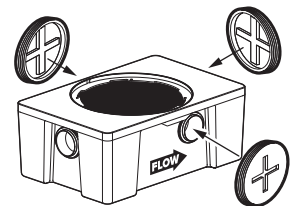
Untighten the green diffuser retaining nut and remove outlet diffuser.

Untighten the green diffuser foot retaining nut and remove outlet diffuser foot.

Rotate diffuser toward chosen outlet, replace foot ensuring it will point to the back wall of the unit and hand tighten the green foot retaining nut.

Insert diffuser into chosen outlet and hand tighten the green diffuser retaining nut.

2c Cap unused connections (all configurations)

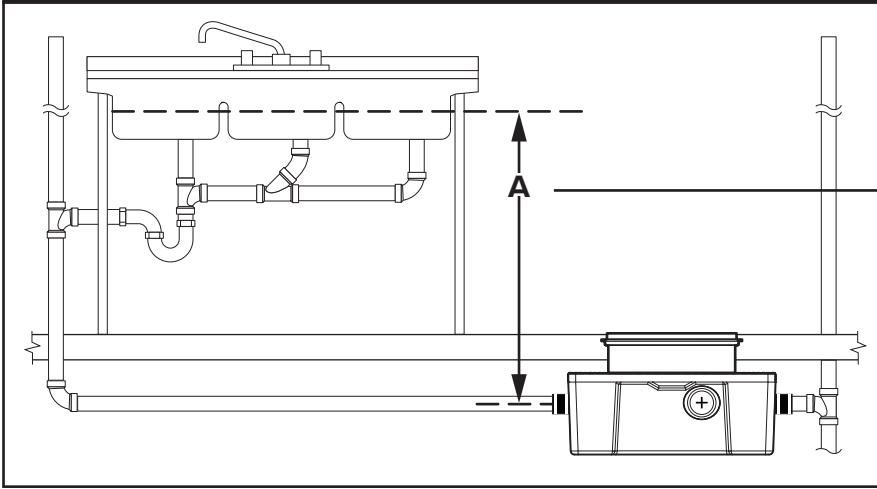


Cap the remaining two unused outlet connections with the 4" cleanout plugs provided using thread sealant or tape approved for use with plastics. **Do not cap the inlet or outlet connections with diffusers.**

BURIED INSTALLATION

3 Calibrate Flow Control

Figure 1

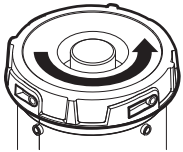


Note to Plumbing Inspector This interceptor includes certified internal flow control and does not require a dedicated “Flow Control Vent” (air intake).

The flow control for the GB1 comes pre-installed

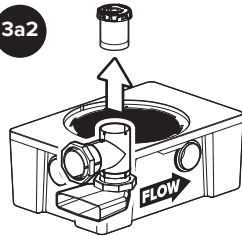
- If dimension **A** is 5 feet or less, discard red extension parts, then **go to Step 4.**
- If dimension **A** is greater than 5 feet **follow Steps below.**

3a1



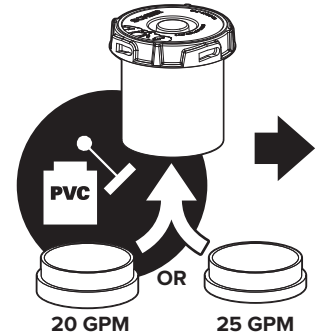
Rotate flow control cartridge counter-clockwise to release and remove from inlet diffuser

3a2

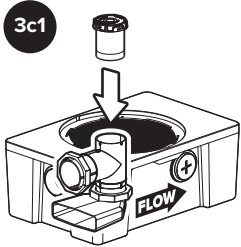


3b

Depending on which flow rate is desired, attach either the 20 or 25 GPM Flow Control Cartridge Extension using PVC primer/cement. **Make sure extension is fully inserted into the cartridge and hold both components firmly together (until cement grabs) to prevent push-out.**

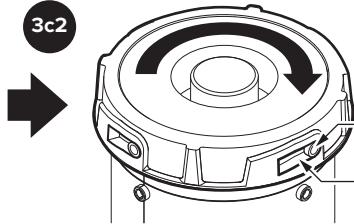


3c1



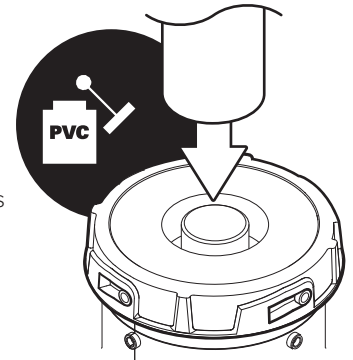
Slide flow control cartridge into top of inlet diffuser and rotate clockwise until cartridge drops onto flow control retainer pins. Continue rotating clockwise until pins are fully seated.

3c2



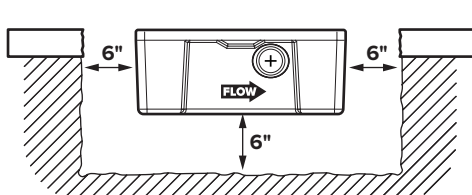
3d

OPTIONAL: For easy flow control removal in deep burial installations, 1-1/2" PVC SCH. 40 pipe may be used as an extension handle. Before risers have been installed, cut pipe to length and attach to top of flow control cartridge using PVC primer/cement.



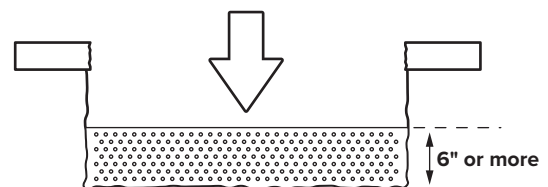
4 Excavation

4a



Excavate hole 6" larger than interceptor on all sides.

4b



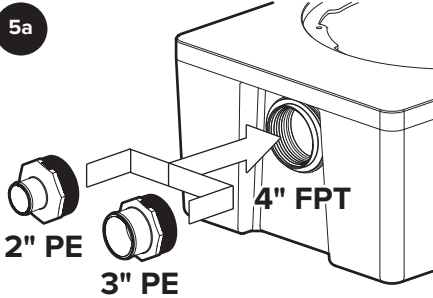
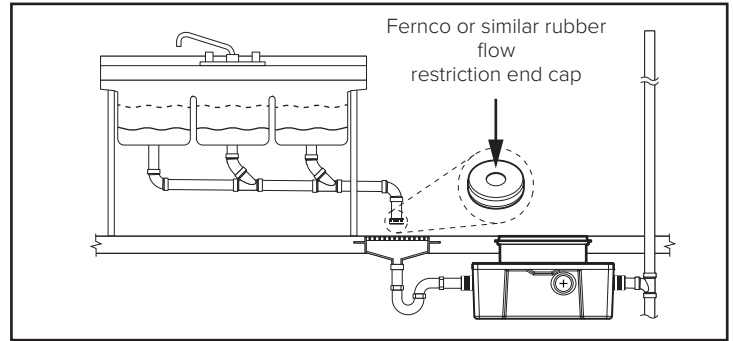
Add crushed stone approximately 1" in size (AASHTO M43 Size #57 or similar) free of debris and fines. **Native soil and sand are not approved backfill materials.**

BURIED INSTALLATION

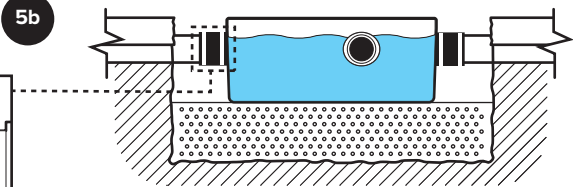
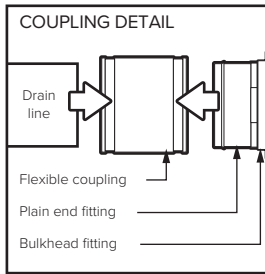
5 Connect Piping to Interceptor

⚠ Floor Sink Installation

If your dishwashing sink(s) discharges into a floor drain/sink (drain), you must regulate the flow into the drain to avoid an overflow of water onto the kitchen floor. This can be done by installing a valve or flow restriction cap on the sink piping that discharges into the drain.



Choose inlet and outlet fittings (included) based on pipe size. See page 7 of 10.



Place the interceptor into its final position and set level. Mechanically couple the inlet and outlet fittings to the drainline using a flexible coupler. **Do not glue or solvent weld.**

Notes: Ensure all upstream fixtures are trapped. Vent the drainline per local code. The installation of 2-way cleanout tees to grade is recommended for buried installations.

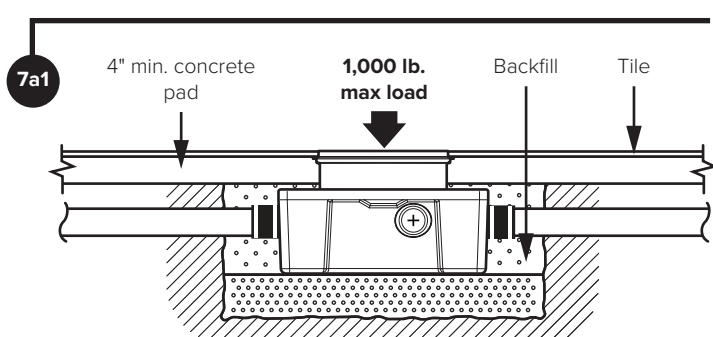
6 Wet or Air Test Piping Per Local Code

⚠ WARNING! DO NOT AIR TEST UNIT OR RISER SYSTEM!
Doing so may result in property damage, personal injury or death.



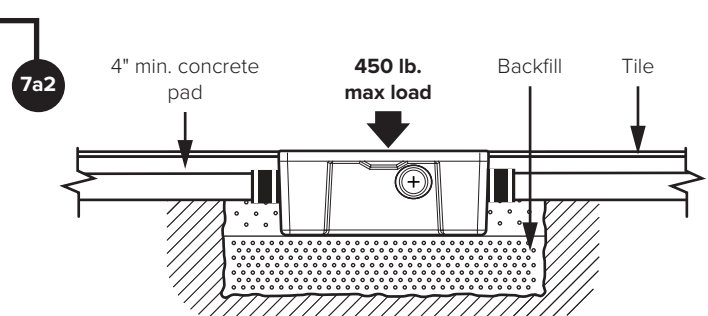
Leak? Call customer care at 913-951-3300

7 Backfill and Finished Grade



Below Grade with Riser (preferred): See instructions included with FCR1 riser. Backfill evenly around the interceptor and risers with clean, crushed stone approximately 1" in size (AASHTO M43 Size #57 or similar) free of debris and fines. **Native soil and sand are not approved backfill materials.** Finish with a minimum 4" thick concrete pad.

OR



Flush-to-Grade Burials: Not recommended for heavy foot traffic areas. Backfill evenly around the interceptor and risers with clean, crushed stone approximately 1" in size (AASHTO M43 Size #57 or similar) free of debris and fines. **Native soil and sand are not approved backfill materials.** Finish with a minimum 4" thick concrete pad.