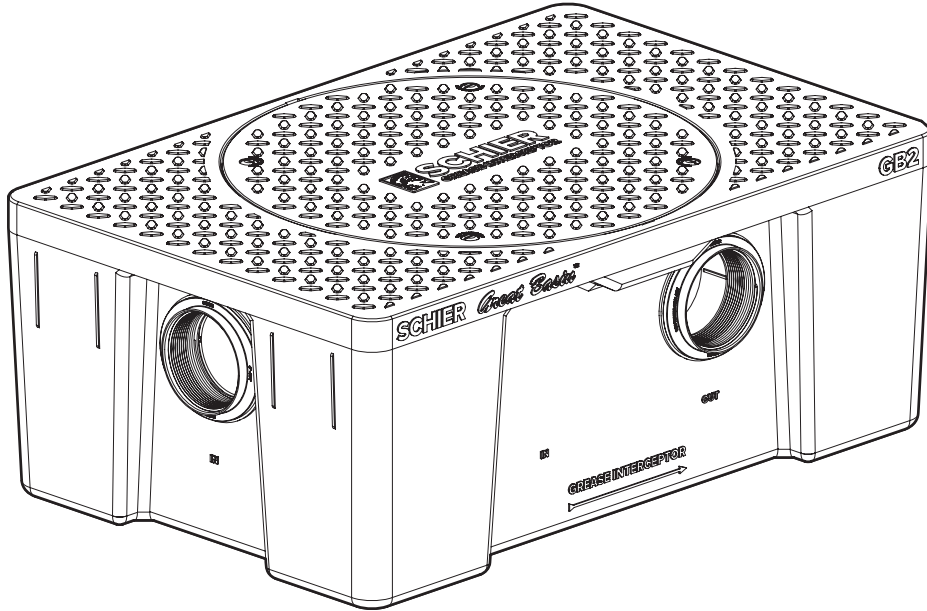

INSTALLATION GUIDE

Model #GB2 35/50 GPM Grease Interceptor
For Indoor Use



Contents

Special Precautions	2
Getting to Know the GB2	3
On the Floor Installation	4-6
Buried Installation	7-9
Installation Options	10



SCHIER
LIFETIME GUARANTEED
GREASE INTERCEPTORS

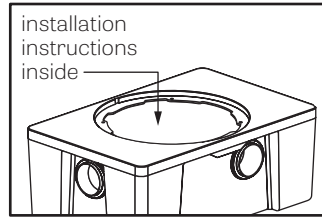


SPECIAL PRECAUTIONS

For All Schier Grease Interceptor Installations - Failure to follow this guidance voids your warranty

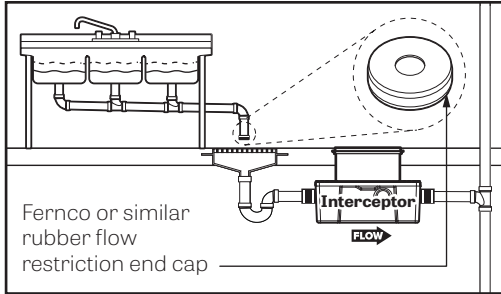
Installation Instructions

Installation instructions and additional components are included with the interceptor. Read all instructions prior to installation. This interceptor is intended to be installed by a licensed plumber in conformance with all local codes.



When Installing Interceptor Inside

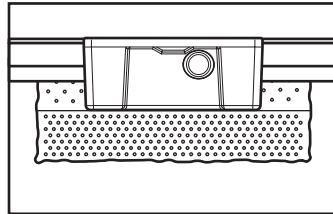
If your dishwashing sink(s) discharges into a floor drain/sink (drain), you must regulate the flow into the drain to avoid an overflow of water onto the kitchen floor. This can be done by installing a valve or flow restriction cap on the sink piping that discharges into the drain. See drawing above for guidance. For detailed guidance on indirect connections, go to:



http://webtools.schierproducts.com/Technical_Data/Indirect_Connections.pdf

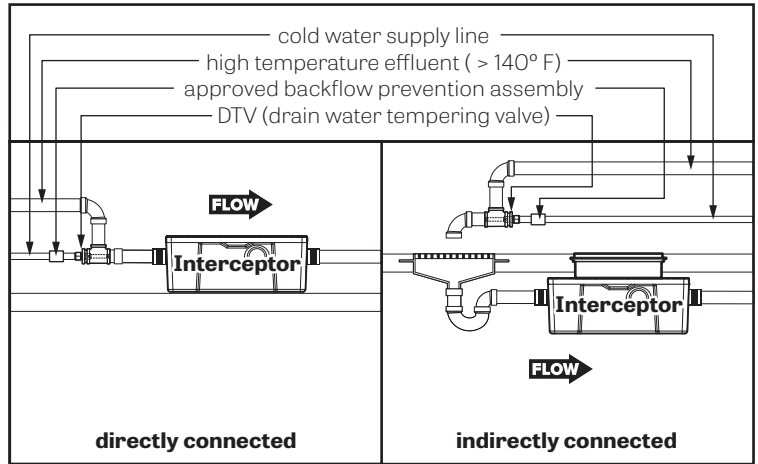
Flush-to-Grade Burials

Flush-to-Grade buried installations (without a riser) are not recommended for heavy foot traffic areas without the use of an internal support system (sold additionally).



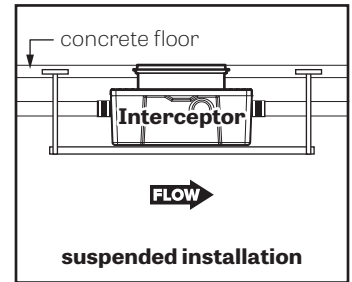
High Temperature Kitchen Water

If water is entering the interceptor at excessive temperature (over 140° F), a drain water tempering valve (DTV) and approved backflow prevention assembly must be installed. Most state and local plumbing codes prohibit water above 140° F being discharged into the sanitary sewer. Water above 140° F will weaken or deform PVC Schedule 40 pipe, poly drainage fixtures like interceptors and erode the coating of cast iron (leading to eventual failure).



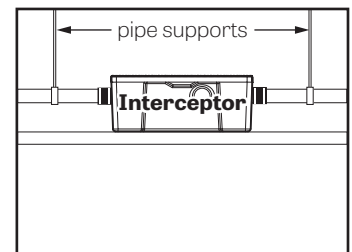
Fully Support Base of Unit

Install unit on solid, level surface in contact with the entire footprint of unit base; for suspended installations design trapeze to support the wet weight of the unit. Do not partially support unit or suspend unit using metal U-channel to create a trapeze

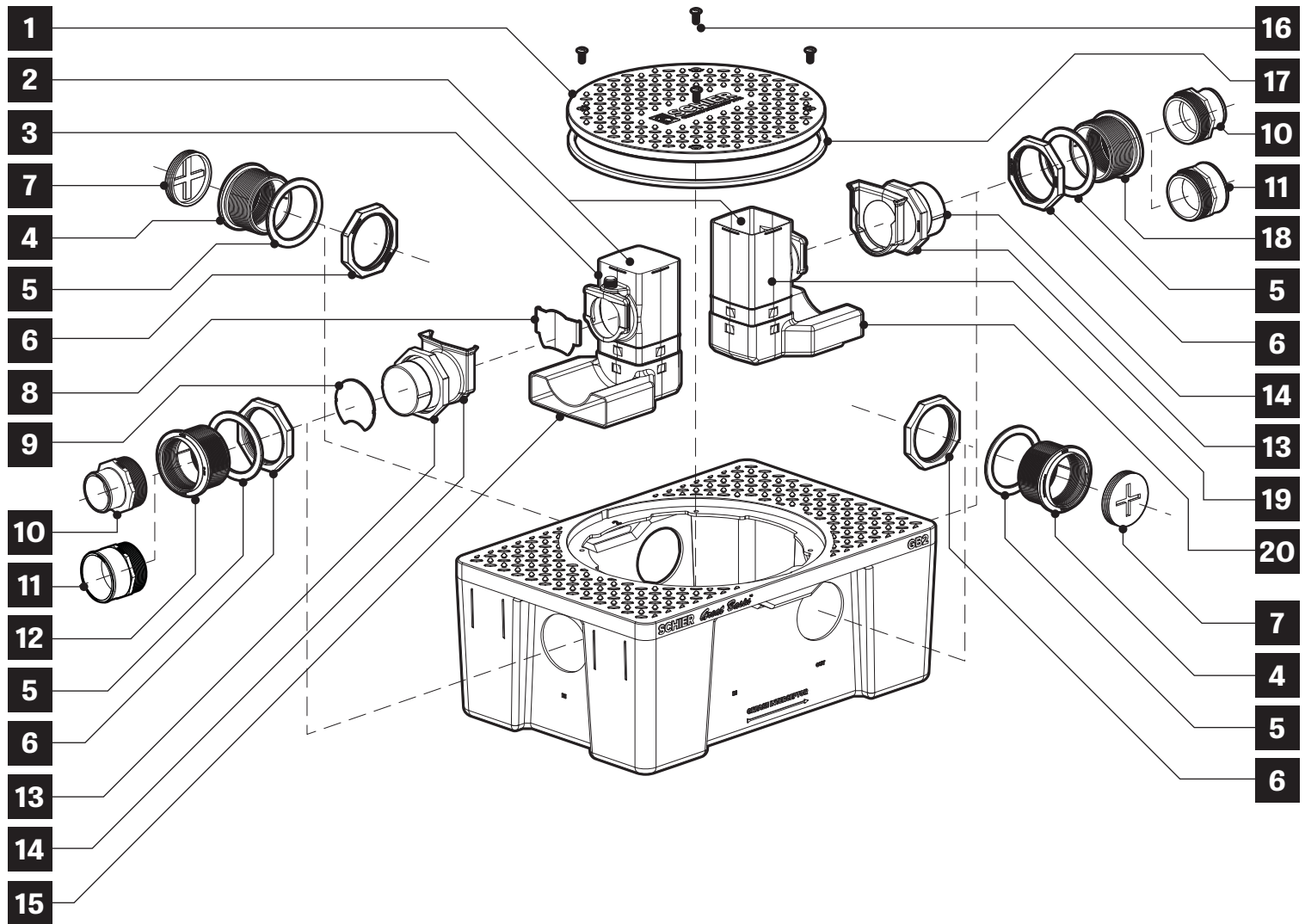


Support Inlet and Outlet Piping

For above grade installations ensure heavy inlet and outlet piping (such as cast iron or long runs) is properly supported or suspended during the entire installation process to prevent connection failure or damage to bulkhead fittings.



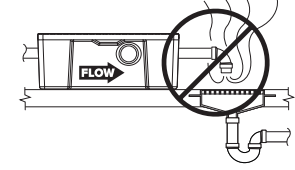
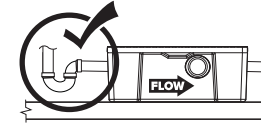
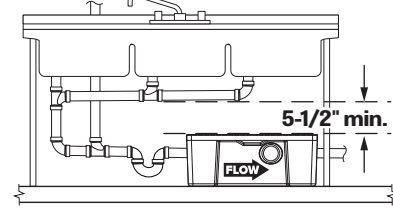
GETTING TO KNOW THE GB2



- | | |
|--|---|
| 1. Cover | 11. 4" Plain End Fitting |
| 2. Air Relief/Visual Access | 12. Inlet 4" FPT Connection |
| 3. Inlet Diffuser (Top) | 13. Saddle Adapter Retaining Nut |
| 4. Optional Side Outlet 4" FPT | 14. Saddle Adapter |
| 5. Connection Fitting Gasket | 15. Inlet Diffuser (Foot) |
| 6. Bulkhead Retaining Nut | 16. Cover Bolts (x4) |
| 7. 4" Cleanout Plug | 17. Cover Gasket |
| 8. Standard Installation Flow Control Plate (Red) | 18. Outlet 4" FPT Connection |
| 9. Flow Control Plate (>5' below kitchen only) | 19. Outlet Diffuser (Top) |
| 10. 3" Plain End Fitting | 20. Outlet Diffuser (Foot) |

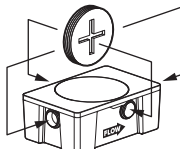
ON THE FLOOR INSTALLATION

Special Precautions

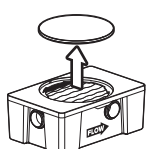
<p>1</p> <p>! WARNING!</p> <p>DO NOT AIR TEST UNIT OR RISER SYSTEM!</p> <p>Doing so may result in property damage, personal injury or death.</p>	<p>2</p> <ul style="list-style-type: none"> <input type="checkbox"/> Read all instructions before installation <input type="checkbox"/> Install in conformance with all local codes 	<p>3 Install interceptor as close as possible to fixtures being served</p>
<p>4</p> <p>ODOR ALERT!</p> <p>Do not install air gap on outlet side of interceptor.</p> 	<p>5</p> <p>ODOR ALERT!</p> <p>Interceptor is not a sewer gas trap. All upstream fixtures must be trapped.</p> 	<p>6 Provide at least 5-1/2" clearance above unit for routine maintenance.</p> 

1 Test tank for water tightness

1a Cap all connection points with 4" cleanout plugs using pipe thread sealant or tape approved for use with plastics.




1b Remove cover and fill with water to just above the highest connection. For riser system testing (if required) fill to finished grade level. **CAUTION:** Support risers before filling to prevent tipping. Inspect unit, connections and gaskets for leaks. Check water level at specific time intervals per local code.



Leak?
Call customer care at 913-951-3300
8a – 5p M – F CST

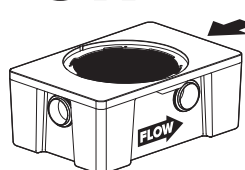
2 Configure outlet diffuser and install cleanout plugs

2a Choose outlet location.



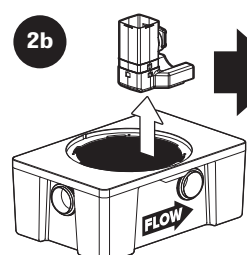
Side outlet

OR

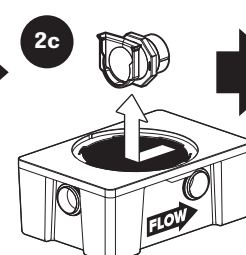


Straight-through

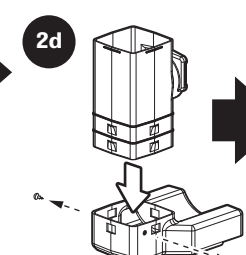
2b Remove diffuser from saddle.



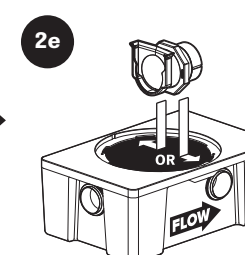
2c Remove saddle adapter.



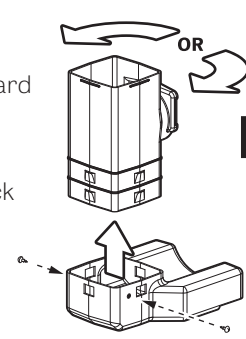
2d Remove set screws from foot, remove foot.



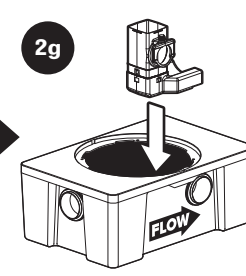
2e Install saddle adapter on desired outlet.



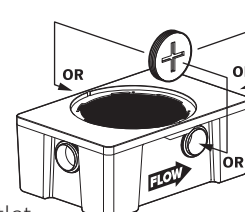
2f Rotate diffuser top toward desired outlet, while ensuring foot is pointed toward the back wall of the unit. Reattach foot and set screws.



2g Seat diffuser firmly into saddle.

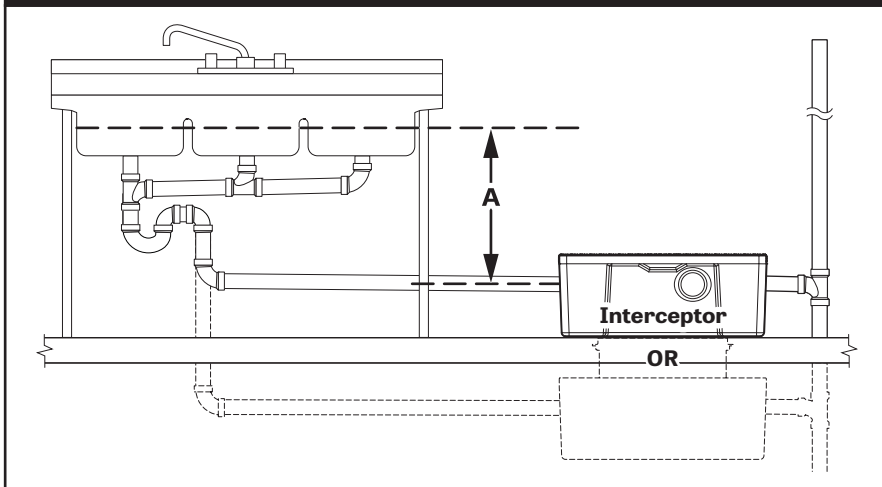


2h Install cleanout plugs into unused outlet connections using pipe thread sealant or tape approved for use with plastics.



3 Calibrate Flow Control

Figure 1

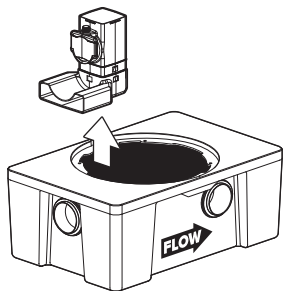


Note to Plumbing Inspector

This interceptor includes certified internal flow control and does not require a dedicated "Flow Control Vent" (air intake).

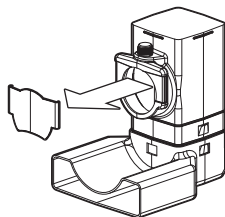
- If dimension "A" above is 5 feet or less **go to Step 4, Connect Piping.**
- If dimension "A" above is greater than 5 feet **follow Steps below.**

3a



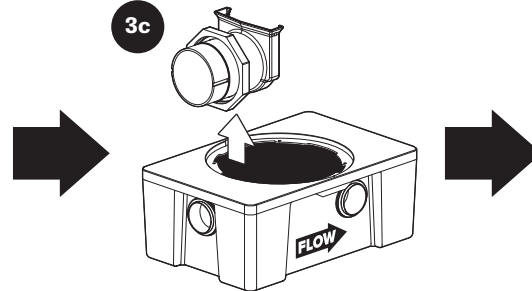
Remove inlet diffuser.

3b



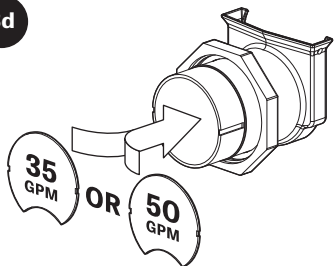
Remove red flow control plate from inlet diffuser and discard.

3c



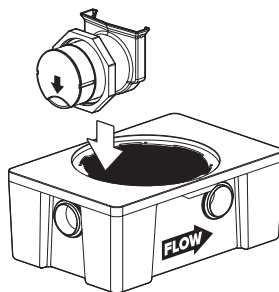
Remove inlet saddle adapter.

3d



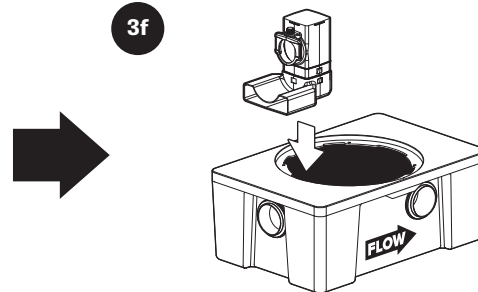
Depending on which flow rate is desired, snap-in the "35 GPM" or "50 GPM" white flow control plate as shown on inlet saddle adapter.

3e



Re-install saddle adapter, ensure flow control plate opening is down as shown.

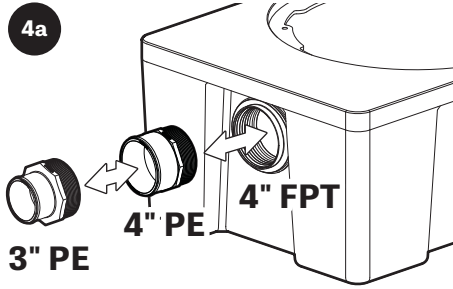
3f



Seat inlet diffuser firmly into saddle adapter.

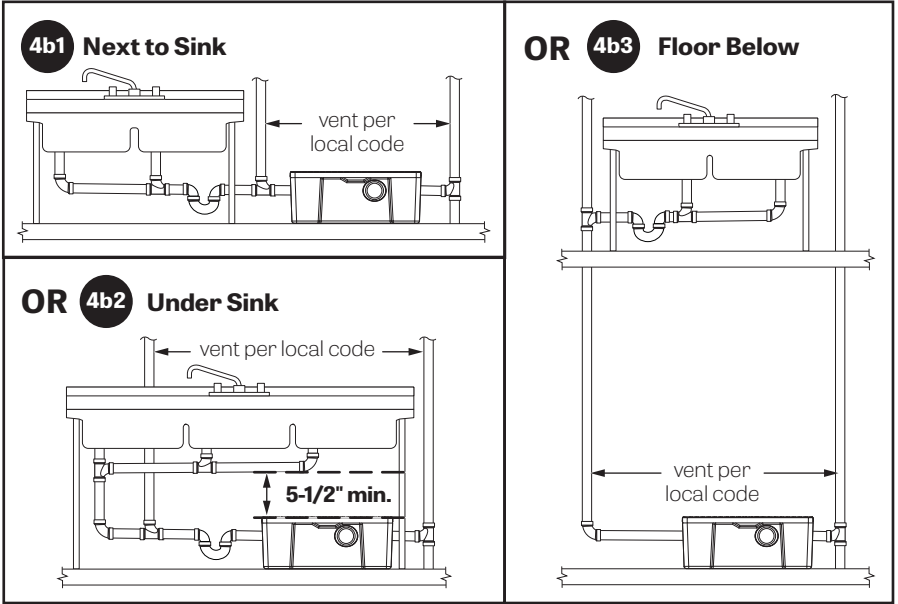
ON THE FLOOR INSTALLATION

4 Connect Piping



Choose inlet and outlet fittings (included) based on pipe size.

4b Connect piping using pipe thread sealant or tape approved for use with plastics. Ensure all upstream fixtures are trapped. Vent per local code.



5 Wet or Air Test Piping Per Local Code

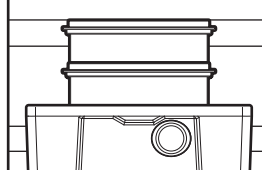
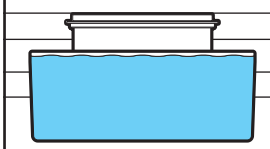
1  **WARNING! DO NOT AIR TEST UNIT OR RISER SYSTEM!**
Doing so may result in property damage, personal injury or death.



Leak? Call customer care at
913-951-3300
8a – 5p M – F CST

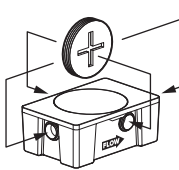
BURIED INSTALLATION

Special Precautions

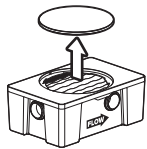
<p>1</p> <p>! WARNING!</p> <p>DO NOT AIR TEST UNIT OR RISER SYSTEM!</p> <p>Doing so may result in property damage, personal injury or death.</p>	<p>2</p> <p>Read all instructions before installation</p> <p>Install in conformance with all local codes</p>	<p>3</p> <p>Install interceptor as close as possible to fixtures being served</p>	<p>4</p> <p>2 Risers (25") Max</p> 	<p>5</p> <p>Max Water Level</p> <p>Risers are not designed to retain water</p> 
---	---	--	--	--

1 Test tank for water tightness

1a Cap all connection points with 4" cleanout plugs using pipe thread sealant or tape approved for use with plastics.



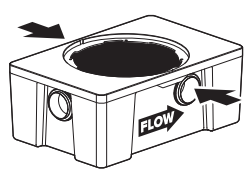
1b Remove cover and fill with water to just above the highest connection. For riser system testing (if required) fill to finished grade level. **CAUTION:** Support risers before filling to prevent tipping. Inspect unit, connections and gaskets for leaks. Check water level at specific time intervals per local code.



Leak?
Call customer care at 913-951-3300
8a – 5p M – F CST

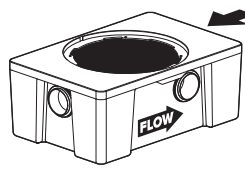
2 Configure outlet diffuser and install cleanout plugs

2a Choose outlet location.



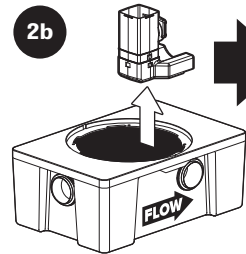
Side outlet

OR

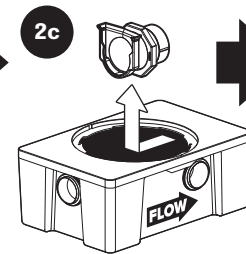


Straight-through

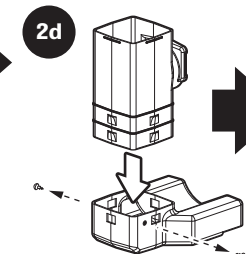
2b Remove diffuser from saddle.



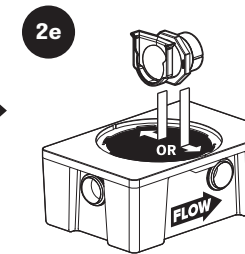
2c Remove saddle adapter.



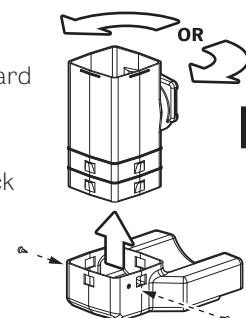
2d Remove set screws from foot, remove foot.



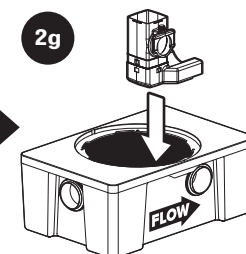
2e Install saddle adapter on desired outlet.



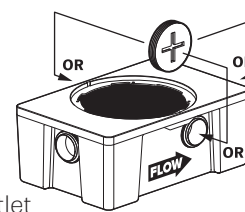
2f Rotate diffuser top toward desired outlet, while ensuring foot is pointed toward the back wall of the unit. Reattach foot and set screws.



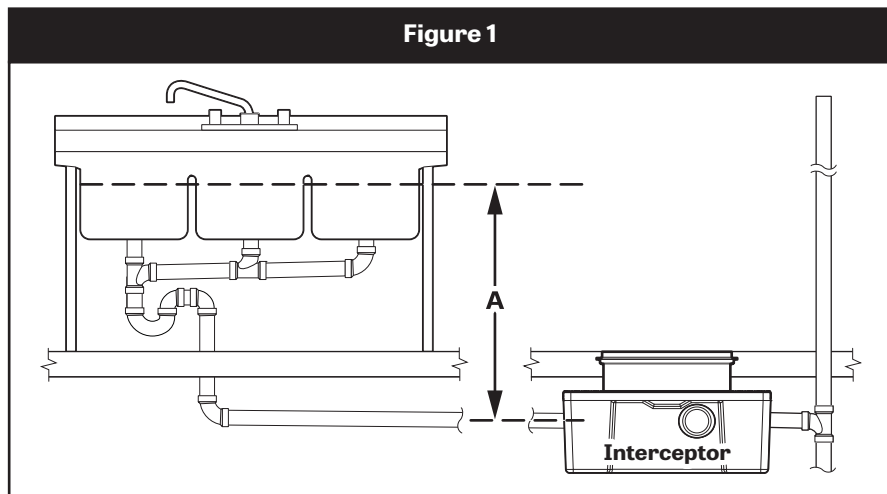
2g Seat diffuser firmly into saddle.



2h Install cleanout plugs into unused outlet connections using pipe thread sealant or tape approved for use with plastics.



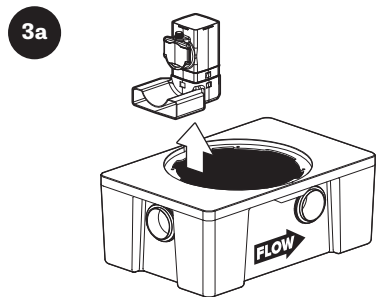
3 Calibrate Flow Control



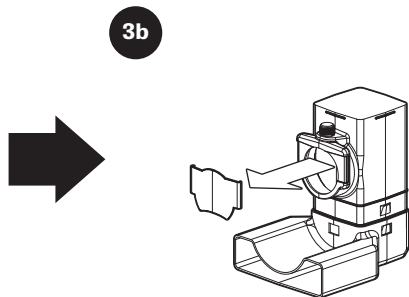
Note to Plumbing Inspector

This interceptor includes certified internal flow control and does not require a dedicated "Flow Control Vent" (air intake).

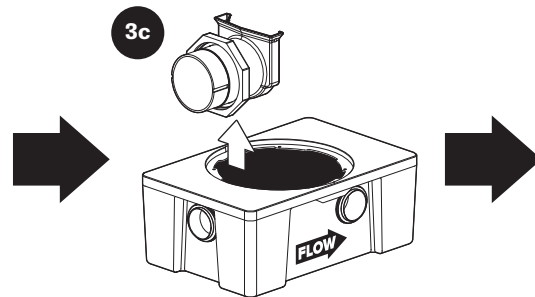
- If dimension "A" above is 5 feet or less **go to Step 4, Connect Piping**.
- If dimension "A" above is greater than 5 feet **follow Steps below**.



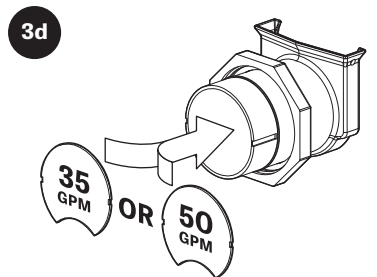
Remove inlet diffuser.



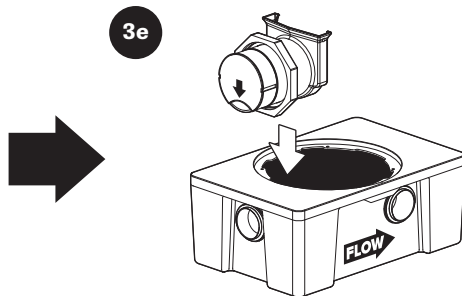
Remove red flow control plate from inlet diffuser and discard.



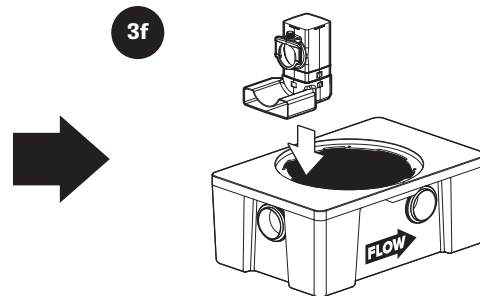
Remove inlet saddle adapter.



Depending on which flow rate is desired, snap-in the "35 GPM" or "50 GPM" white flow control plate as shown on inlet saddle adapter.



Re-install saddle adapter, ensure flow control plate opening is down as shown.



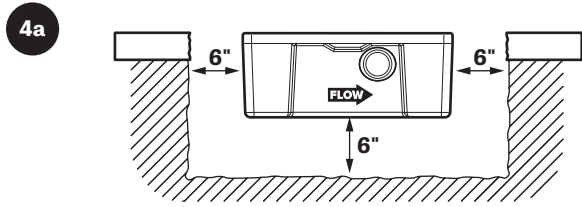
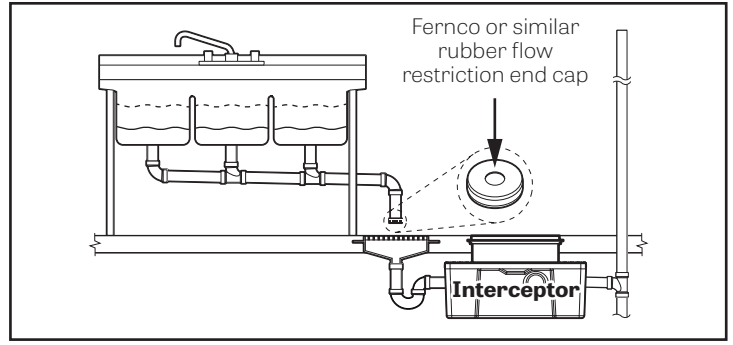
Seat inlet diffuser firmly into saddle adapter.

BURIED INSTALLATION

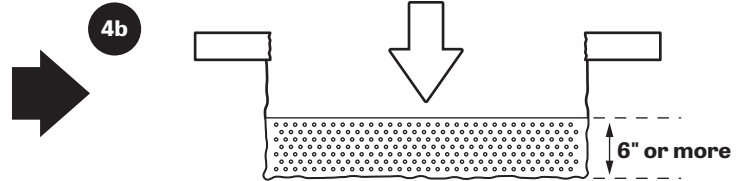
4 Connect Piping

! Floor Sink Installation

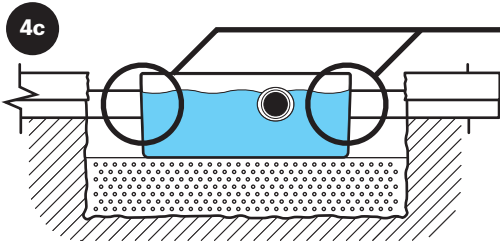
If your dishwashing sink(s) discharges into a floor drain/sink (drain), you must regulate the flow into the drain to avoid an overflow of water onto the kitchen floor. This can be done by installing a valve or flow restriction cap on the sink piping that discharges into the drain.



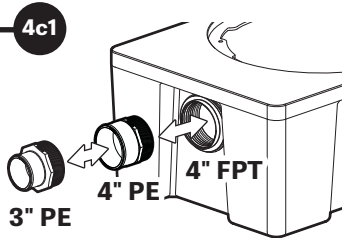
Excavate hole 6" larger than interceptor on all sides.



Add crushed aggregate (approximately 3/4" size rock or sand, with no fines) to base of hole.



Set interceptor and connect piping using pipe thread sealant or tape approved for use with plastics, fill tank with water so that it remains in place during backfill.



Choose inlet and outlet fittings (included) based on pipe size.

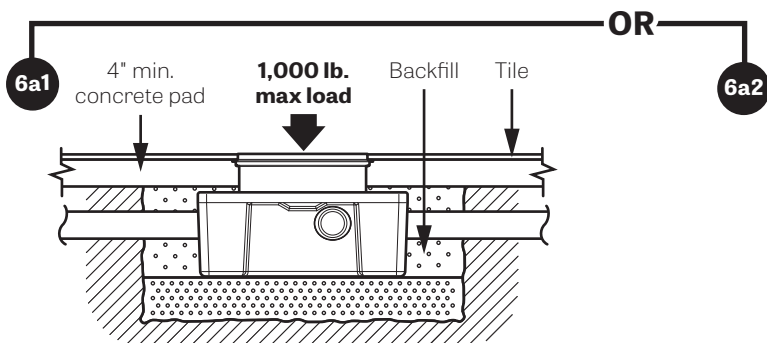
5 Wet or Air Test Piping Per Local Code

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

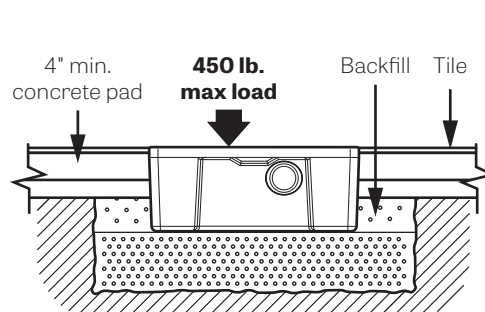


Leak? Call customer care at 913-951-3300
8a – 5p M – F CST

6 Backfill and Finished Grade



Below Grade with Riser (preferred): See instructions included with FCR1 riser. Backfill evenly around tank using crushed aggregate (approximately 3/4" size rock or sand, with no fines), finish with a minimum 4" thick concrete pad. Vent per local code.



Flush-to-Grade Burials:

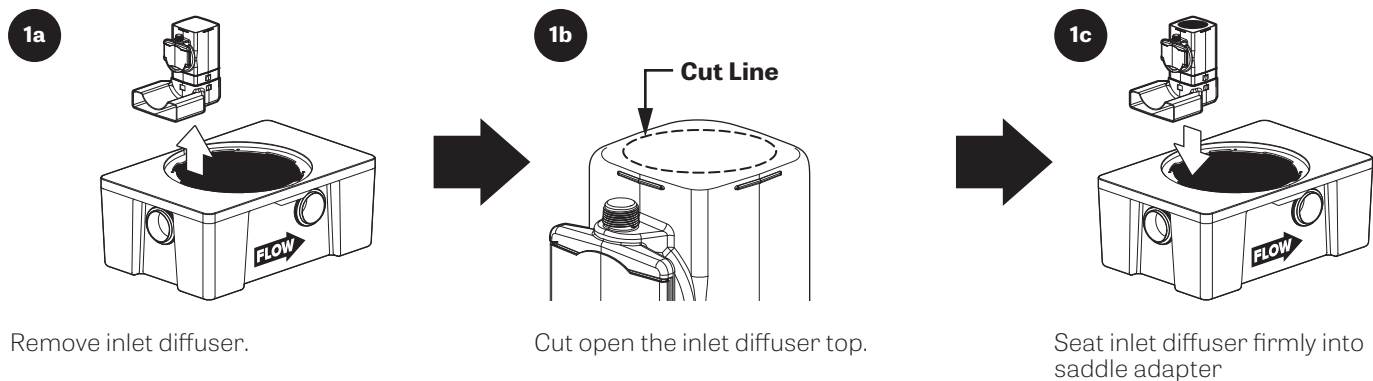
! WARNING! Not recommended for heavy foot traffic areas without the use of an internal support system (sold additionally). Contact Customer Care for more details.

1 Open Top Inlet Diffuser Modification

This grease interceptor features a standard closed top inlet diffuser which should be modified to an open top if any of the following conditions apply:

1. This interceptor is part of a series installation and is NOT the first interceptor in the series.
2. An open site drain / indirect connection located upstream is experiencing frequent backups.
3. Local code requires a visual inspection point for the inlet diffuser.

NOTE: Modifying the inlet diffuser to an open-top style eliminates the sewer gas seal and should only be performed if sewer gas is trapped upstream of the unit.

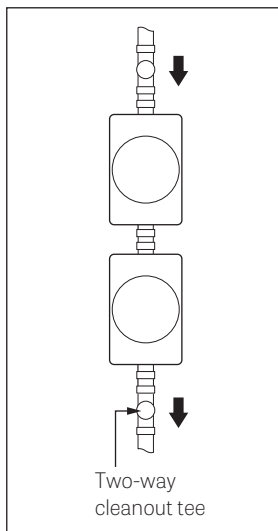


2 Series Installations

For lower flow rates and higher grease storage requirements. Piping between units and two-way cleanout tees by others.

Below grade installations: All units must be level in the excavation pit. Two-way cleanout tees extended to finished grade should be installed before the first unit inlet, after the last unit outlet and in between units (if there is a long run of pipe between units) for line cleaning purposes.

NOTE: When the flow control plate is required, it should only be installed on the first unit in the series.



Top View of 2 GB2 Units Piped in Series

Rated Grease Capacities for GB2 Units Piped in Series

No. of Units in Series	Removal Efficiency	
	97.8%	99%*
2	274 lbs.	180 lbs.



Units piped in series are certified to ASME A112.14.3 (Type C) and CSA B4811 and include an internal flow control. External flow control with vent not required. Testing was performed on a series installation of 2 GB2 units. Capacities for more than 2 units piped in series were calculated using the results of the 2-series test.

* Satisfies Miami DERM 99% efficiency requirements

NOTE: Flow rate for 2 GB2 units piped in series is 35 GPM only