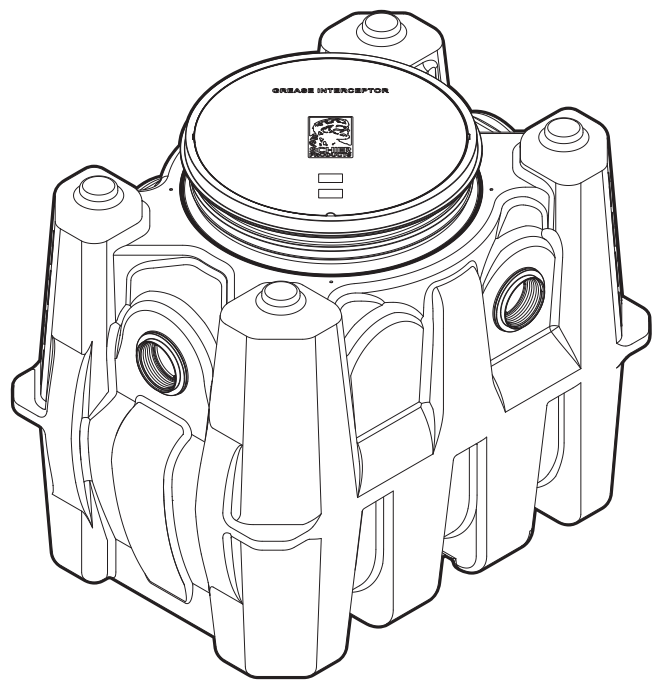


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# INSTALLATION GUIDE

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## GB-75 75 GPM Great Basin™ Indoor/Outdoor Grease Interceptor



### Contents

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**SCHIER**

LIFETIME GUARANTEED **GREASE INTERCEPTORS**



## SPECIAL PRECAUTIONS

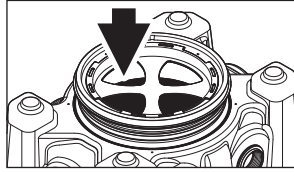
For Schier Grease Interceptor Installations - Failure to follow this guidance voids your warranty

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

**⚠ CAUTION!** Do not install this unit in any manner except as described in these instructions.

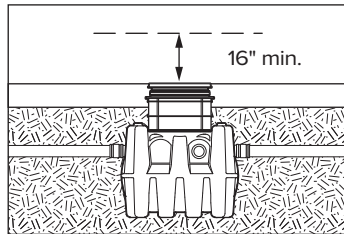
### Installation Instructions

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.



**Install interceptor as close as possible to fixtures being served**

**Provide at least 16" clearance above unit for routine maintenance.**

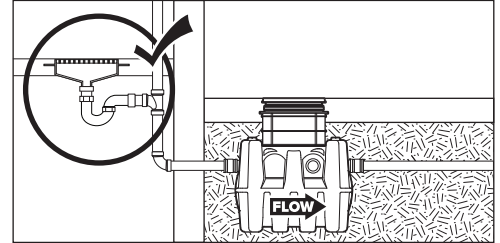


### High Temperature Kitchen Water

If water is entering the interceptor at excessive temperature (over 150° F), a drain water tempering valve (DTV) and approved backflow prevention assembly must be installed. Most state and local plumbing codes prohibit water above 150° F being discharged into the sanitary sewer. Water above 150° 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).

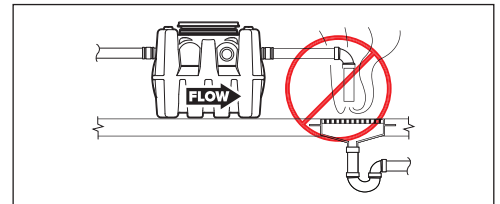
### ODOR ALERT!

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



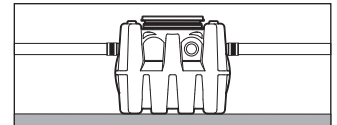
### ODOR ALERT!

Do not install air gap on outlet side of interceptor.



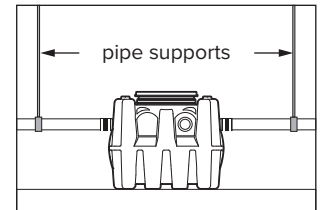
### Fully Support Base of Unit

Install unit on solid, level surface in contact with the entire footprint of unit base



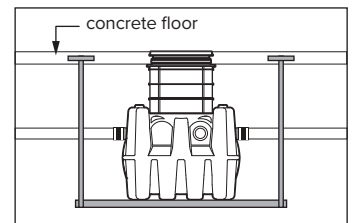
### Support Inlet and Outlet Piping

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.



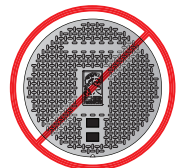
### Suspended Installations

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.



### DO NOT USE CAST IRON COVERS IN ABOVE GRADE OR INDOOR INSTALLATIONS

Use composite cover C24BC for above grade installations



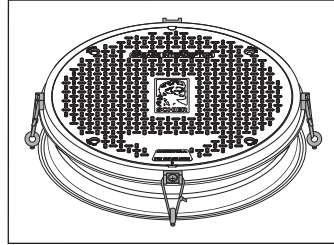


# SPECIAL PRECAUTIONS

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

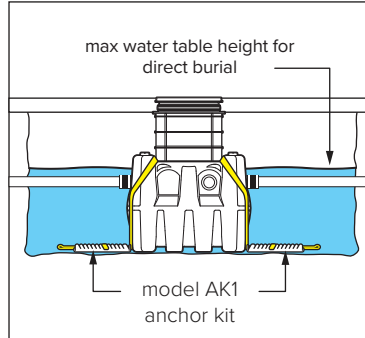
## Secure Cover Adapters

Cover adapters must be secured to base units in above grade installations with increased head pressure conditions. Use cover adapter tie-down kit model ATD1.



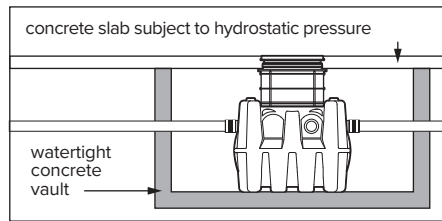
## High Water Table Installations

Interceptors and risers are not designed to withstand water table height in excess of the top of the unit when buried (see figure). If it is possible for this to occur, install the interceptor and risers in a water-tight concrete vault or backfill in stages to avoid crushing the interceptor). At risk areas include but are not limited to tidal surge areas, floodplains and areas that receive storm water. Great Basin™ models that are direct buried in high water table scenarios must be installed with an anchor kit. Model GB-75 uses model AK1 anchor kit.



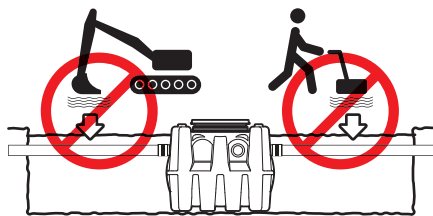
## Hydrostatic/ Pressure Slabs

When installed under a hydrostatic slab (slab designed to withstand upward lift, usually caused by hydrostatic pressure) interceptor must be enclosed in a watertight concrete vault.



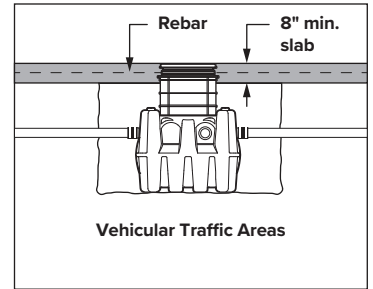
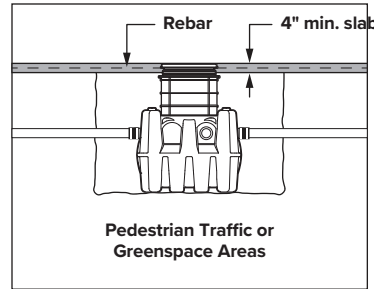
## DO NOT COMPACT BACKFILL MECHANICALLY

Compact by hand only

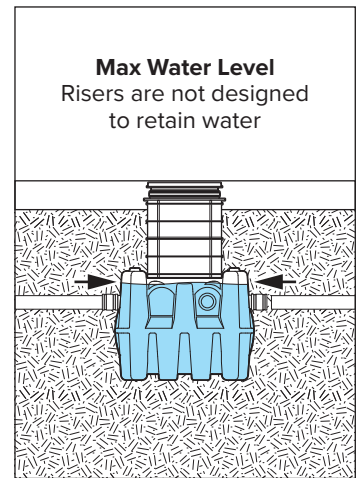
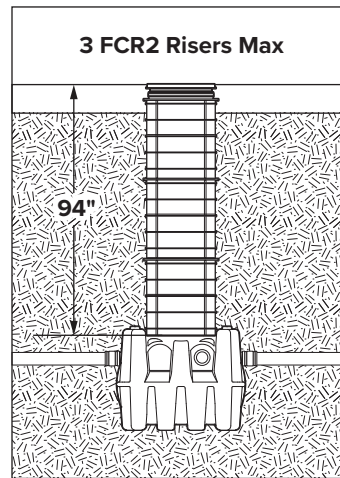


## Below Grade Installation Slab Requirements

A concrete slab to finished grade with rebar is required when installing interceptor below grade.

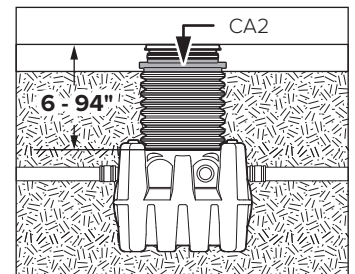


## Installations with Risers

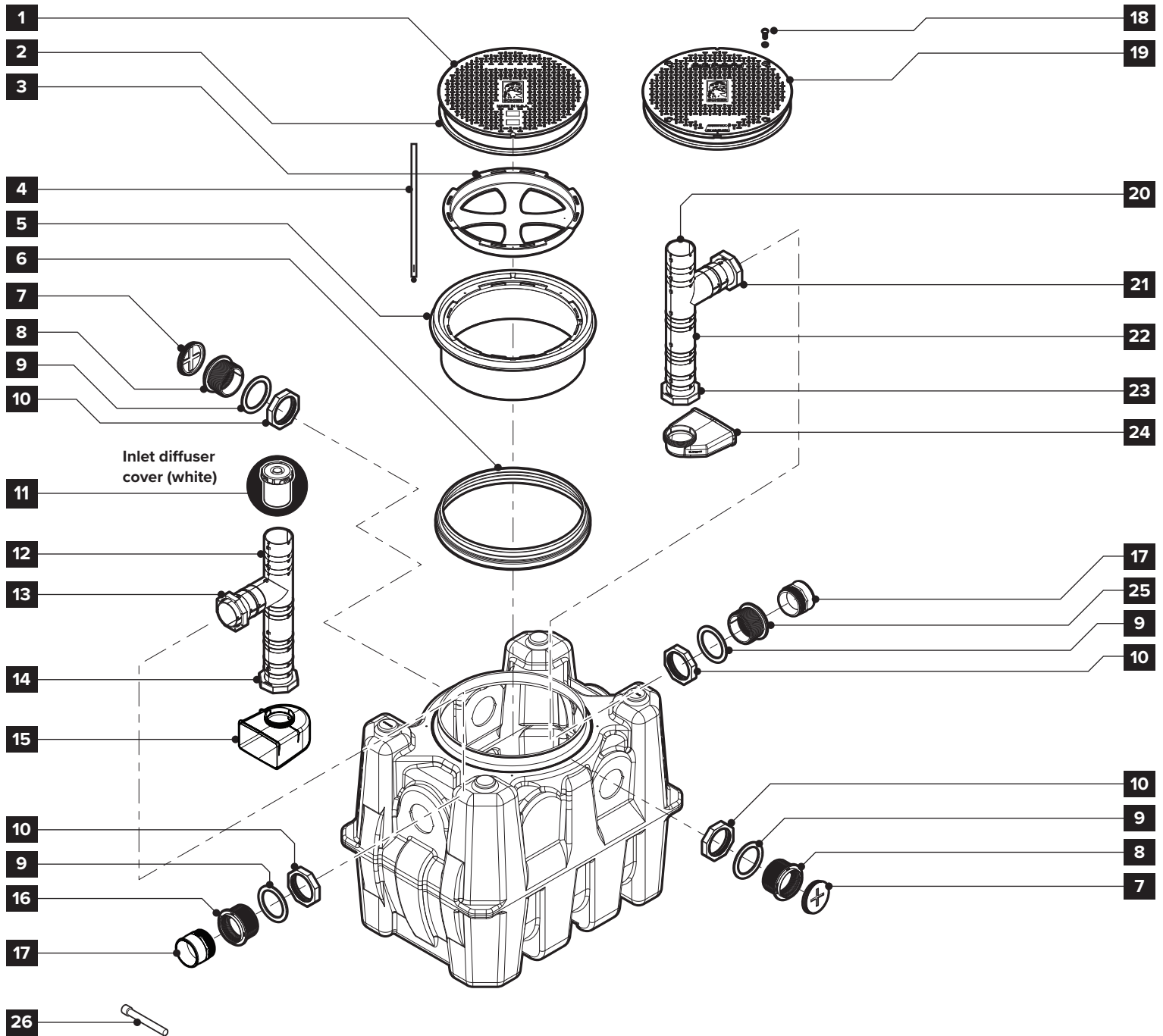


## Corrugated Riser Pipe Requirements

Riser adapter model CA2 must be used when installing interceptors using 24 inch diameter corrugated pipe as a riser. This will adequately embed the cover adapter in the concrete slab, preventing cover/cover adapter failure under traffic rated loads.

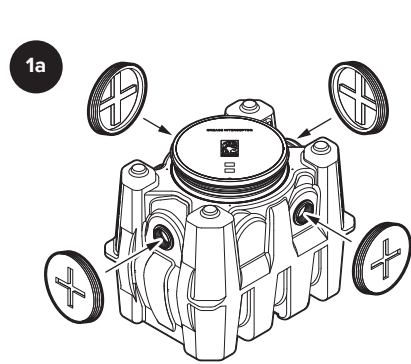


# GETTING TO KNOW THE GB-75

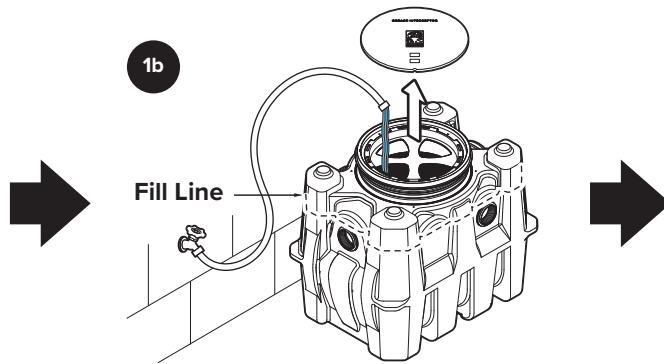


- |   |  |  |
|---|--|--|
| 1. Pickable cast iron cover (standard)  | 9. Bulkhead connection gasket              | 19. Bolted composite cover (optional)            |
| 2. Cover gasket   | 10. Bulkhead connection retaining nut      | 20. Air relief/visual access                     |
| 3. Safety Star® access restrictor   | 11. Inlet diffuser cover (white)           | 21. Outlet diffuser retaining nut                |
| 4. Safety Star® tether  | 12. Inlet diffuser                         | 22. Outlet diffuser                              |
| 5. Cover adapter  | 13. Inlet diffuser retaining nut           | 23. Outlet diffuser foot retaining nut           |
| 6. Cover adapter gasket assembly with upper and lower stainless steel band clamps | 14. Inlet diffuser foot retaining nut      | 24. Outlet diffuser (foot)                       |
| 7. 4" cleanout plug (x2)  | 15. Inlet diffuser (foot)                  | 25. Outlet bulkhead connection (standard) 4" FPT |
| 8. Outlet bulkhead connection (optional) 4" FPT (x2)                              | 16. Inlet bulkhead connection 4" FPT       | 26. 7/16" nut driver bit                         |
|   | 17. 4" plain end fitting (x2)              |  |
|   | 18. Composite cover bolts and washers (x4) |  |

# 1 Test tank for water tightness

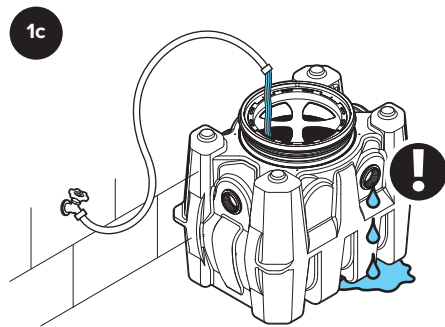


Cap all connection points with 4" cleanout plugs using pipe thread sealant or tape approved for use with plastics.



Remove cover. For base unit testing fill with water to just above the highest connection.

Inspect unit, connections and gaskets for leaks. Check water level at specific time intervals per local code.



## Have a Leak?

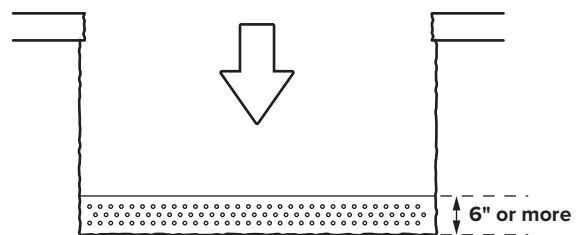
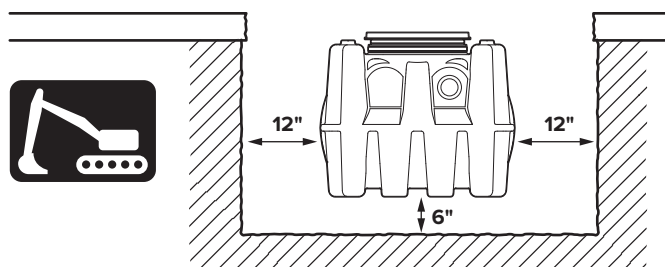
Call customer care at 913-951-3300

Hours 8am-5pm CST, M-F

# 2 Excavate Burial Pit



ONLY



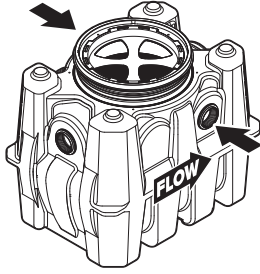
Excavate hole at least 12" larger than interceptor on all sides and 6" deeper than tank bottom. Lay a level bed of well-packed, crushed aggregate (approximately 3/4" size rock or sand, with no fines) in the base of hole.

### 3 Set Up Outlet Diffuser and Install Cleanout Plugs

#### 3a Choose outlet location.

##### Side Outlet:

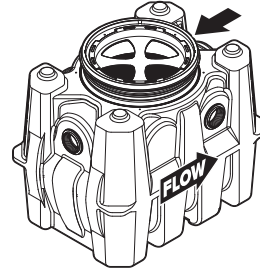
Go to Step 3b.



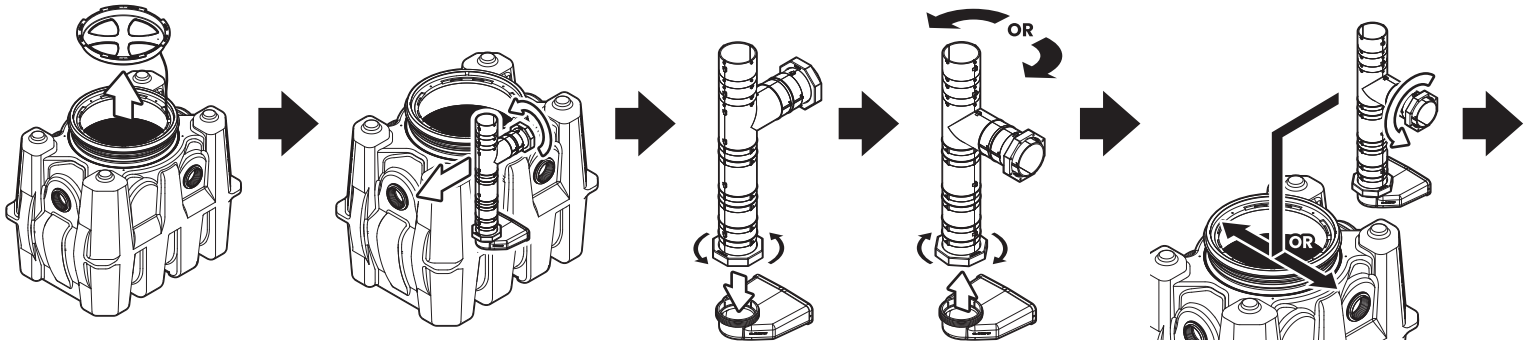
OR

##### Straight Through:

Go to Step 3c.

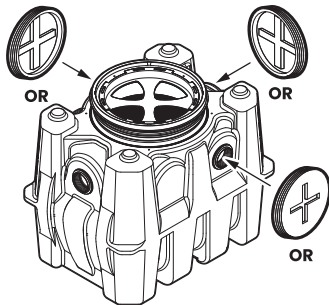


#### 3b Reposition outlet diffuser (side outlets only)



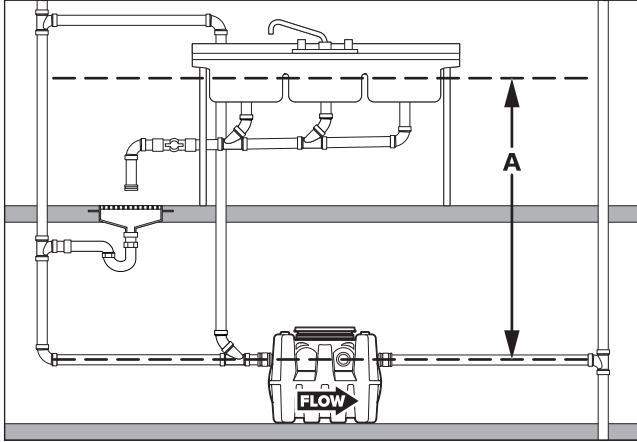
Remove safety star insert, leave tethered to unit. Unscrew diffuser retaining nut and remove outlet diffuser. Unscrew diffuser foot retaining nut and remove outlet diffuser foot. Rotate diffuser toward chosen outlet, replace foot ensuring it will point to the back wall of the unit and hand tighten foot retaining nut. Insert diffuser into chosen outlet and hand tighten retaining nut.

#### 3c Cap unused connections(all configurations)



Screw in provided 4" cleanout plugs using pipe thread sealant or tape approved for use with plastics. **Do not cap the inlet or outlet connections attached to the diffusers.**

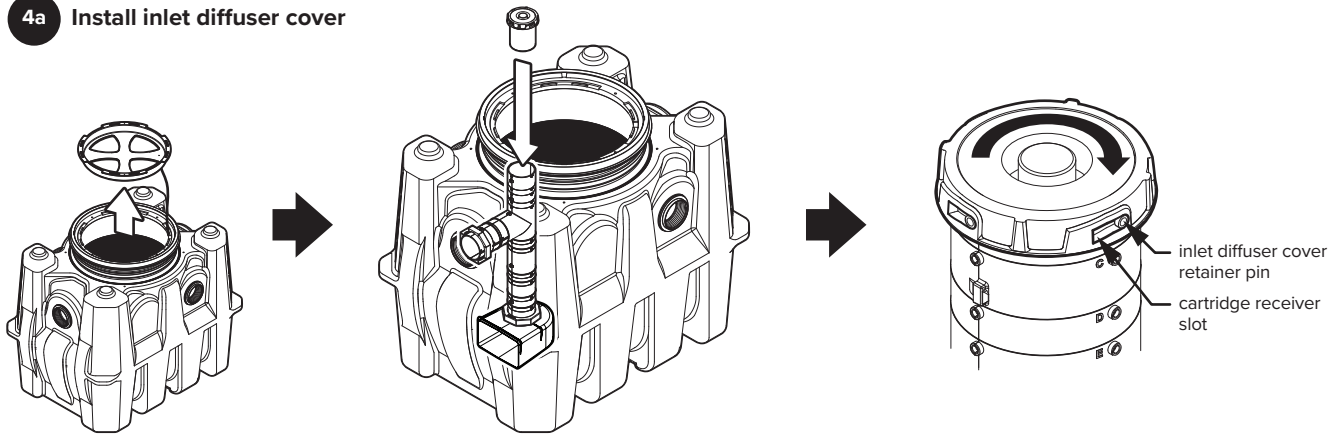
# 4 Install Inlet Diffuser Components



This unit is supplied with a white inlet diffuser cover to prevent the unit from swamping in high flow/ increased head pressure conditions.

- If dimension "A" is 13 feet or less, the inlet diffuser cover is not needed, **go to Step 5, Connect Piping.**
- If dimension "A" is more than 13 feet, or a high flow/increased head pressure condition exists, **follow Steps below.**

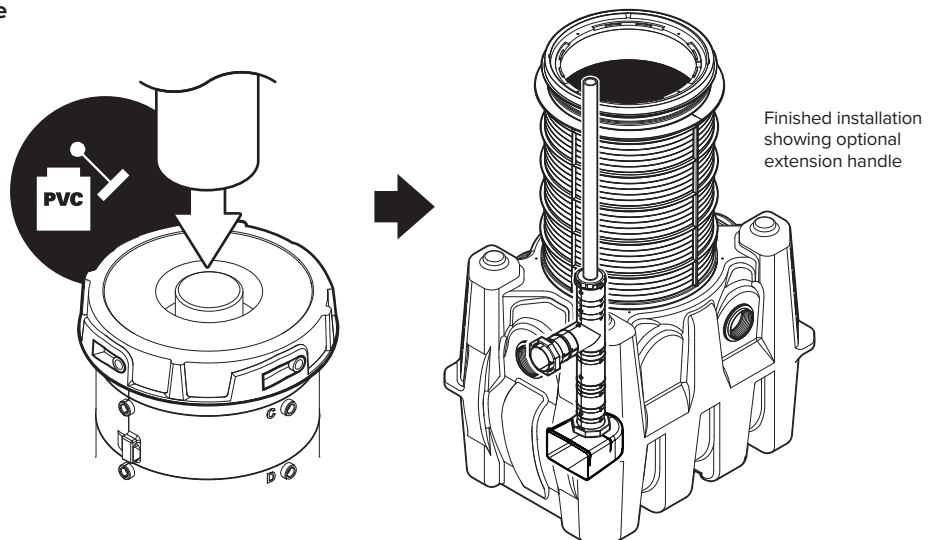
## 4a Install inlet diffuser cover



Remove Safety Star® insert and remove inlet diffuser cover from the parts bag. Slide inlet diffuser cover into top of inlet diffuser and rotate clockwise until cartridge drops onto the inlet diffuser cover retainer pins. Continue rotating clockwise until pins are fully seated.

## 4b OPTIONAL: install extension handle

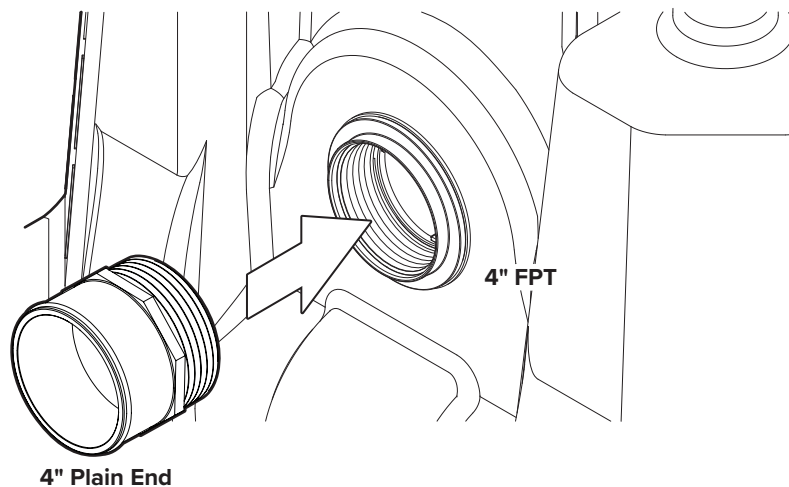
For easy inlet diffuser cover removal in deep burial installations, 1-1/2" PVC SCH. 40 pipe may be used as an extension handle. Before risers have been installed, cut pipe to length and attach to top of cover using PVC primer/cement. Extension handle length should be about 12" shorter than total riser height.





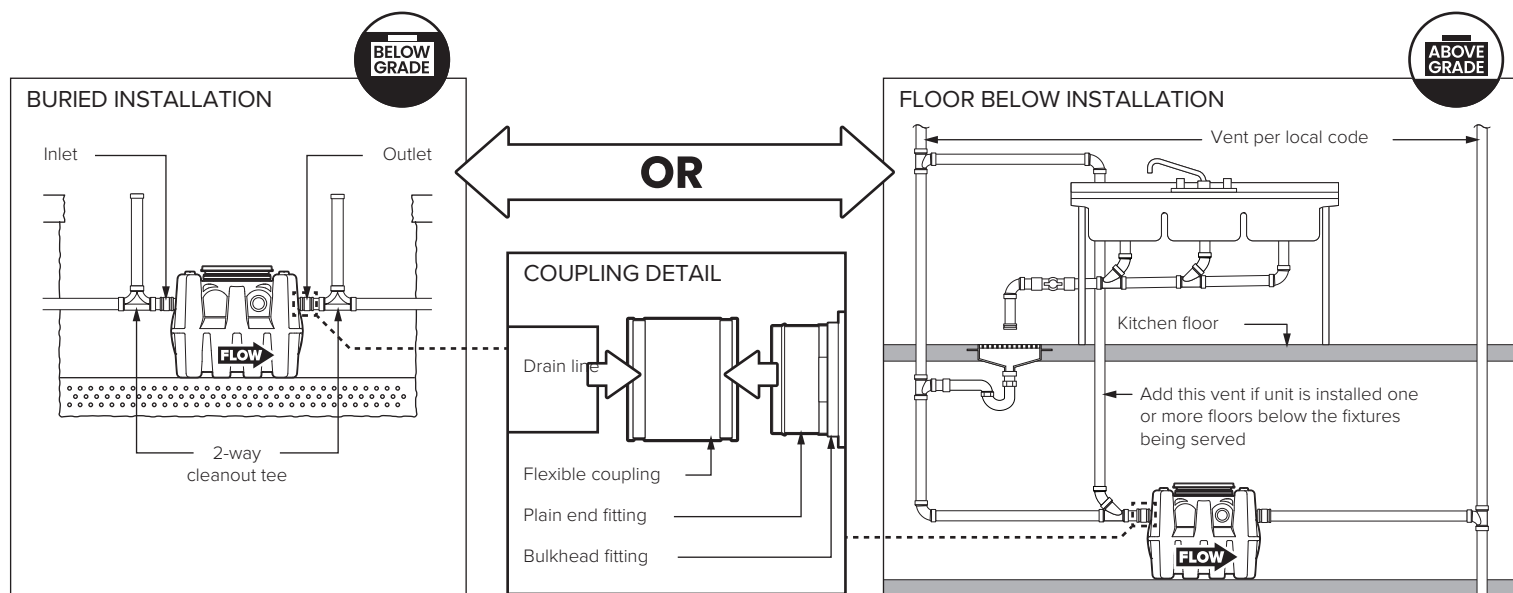
# 5 Connect Piping

## 5a Install plain end fittings



Screw plain end fittings (included) into bulkhead fittings using pipe thread sealant or tape approved for use with plastics. 6" connection types come pre-installed from the factory.

## 5b Connect interceptor to drain lines



Place unit into final position and set level. Mechanically couple inlet and outlet drainage lines to unit. **Do not solvent weld.** Ensure all upstream fixtures are trapped. Vent per local code. Installation of 2-way cleanout tees to grade (by others) 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.

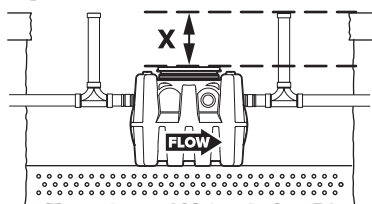
**Have a Leak?** Call customer care  
at 913-951-3300  
Hours 8am-5pm CST, M-F

# 7 Bring Covers Flush-to-Grade



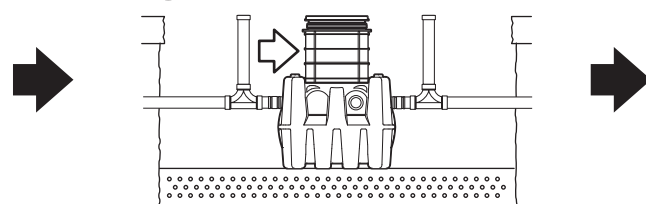
The GB-75 is ready for burial depth of 40" from finished grade to bottom of tank (or 13-1/2" to centerline of inlet). Deeper burials will require extending the cover adapters and possibly adding risers.

## 7a Measure dimension X to determine riser height needed.



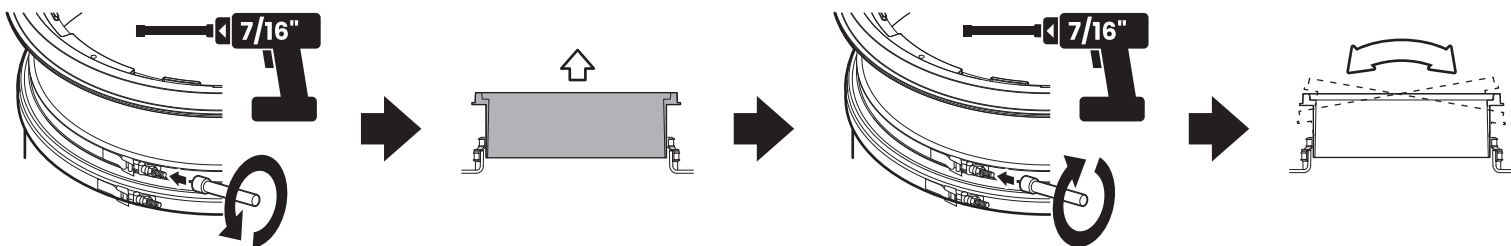
Riser Height Needed	Risers Required
0" - 4"	None (use adapter)
>4" - 34"	FCR2 (x1)
>34" - 64"	FCR2 (x2)
>64" - 94"	FCR2 (x3)

## 7b Install risers if required



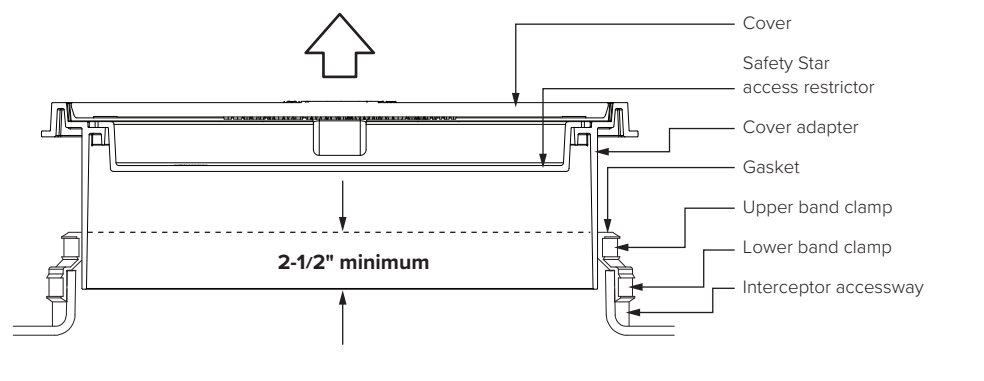
See instructions included with FCR2.

## 7c Make final cover adapter adjustments

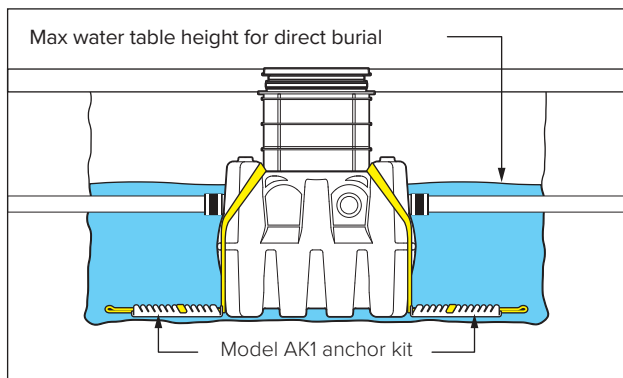


Loosen the cover adapter upper band clamp using 7/16" Nut Driver Bit. Adjust cover adapter heights as needed. **Maintain a minimum 2-1/2" insertion depth.** Tighten upper band clamp to 5 -8 ft. lbs. of torque using 7/16" nut driver Bit. If required, cover adapters may now be tilted up to 10° in any direction using gasket flexibility.

### COVER ADAPTER ADJUSTMENT DETAIL



## 8 Install Anti-Flotation Anchor Kit

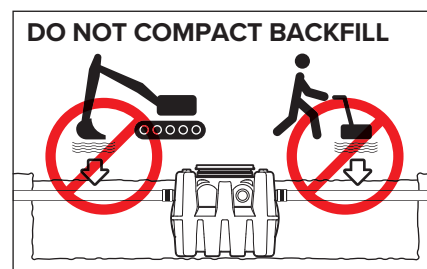
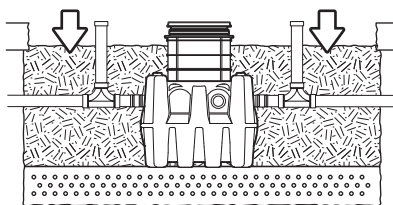
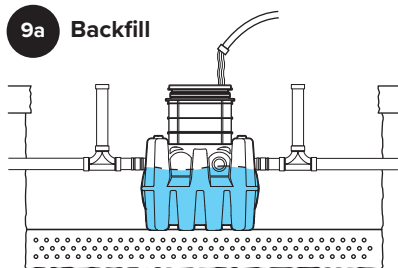


If the installation location is in a high water table or at risk area (including but not limited to tidal surge areas, floodplains and areas that receive storm water) the GB-75 must be installed with Schier model AK1 anchor kit.

## 9 Backfill and Finished Grade

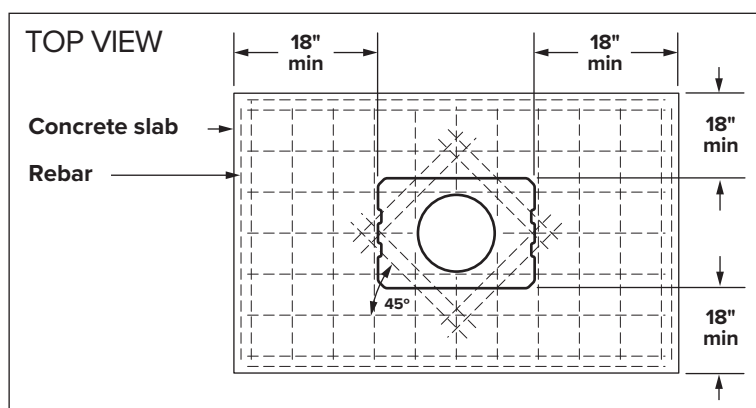
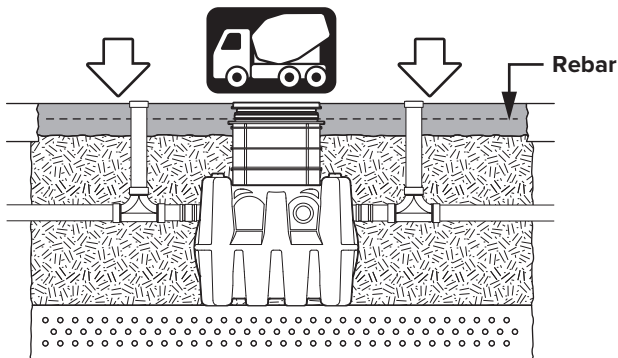


### 9a Backfill



Fill unit with water for stabilization and float-out prevention. Backfill evenly around tank using crushed aggregate (approximately 3/4" size rock or sand with no fines) or flowable fill. **Do not compact backfill around unit.**

### 9b Pour concrete slab to finished grade



#### Vehicular Traffic Areas:

Minimum 8" thick concrete slab with rebar required. Thickness of concrete around covers to be determined by specifying engineer. If traffic loading is required the concrete slab dimensions shown are for guideline purposes only. Concrete to be 28 day compressive strength to 4,000 PSI. Use No. 4 rebar (Ø 1/2") grade 60 steel per ASTM A615: connected with tie wire. Rebar to be 2-1/2" from edge of concrete and spaced in a 12" grid with 4" spacing around access openings.

#### Pedestrian Traffic or Greenspace Areas:

Minimum 4" thick concrete slab with rebar required.