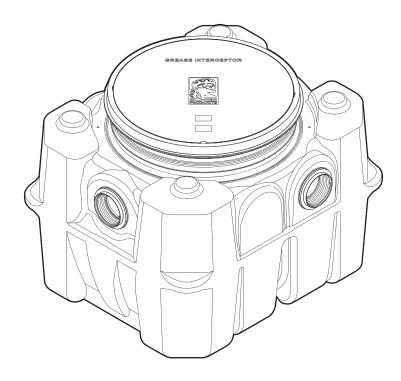
INSTALLATION GUIDE

 $GB-50 \quad \text{50 GPM Great Basin}^{\mathsf{m}} \, \mathsf{Indoor/Outdoor Grease Interceptor}$



Contents

Special Precautions	. 2-3
Getting to Know the GB-50	4
Installation	.5-9

Part #: 4025-009-01 Find these instructions online at: schierproducts.com/gb-50





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.

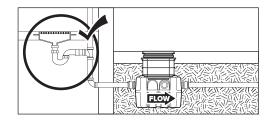
Installation Instructions

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.



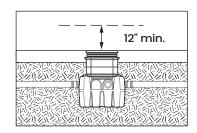
ODOR ALERT!

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



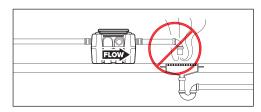
Install interceptor as close as possible to fixtures being served

Provide at least 12" clearance above unit for routine maintenance.



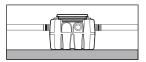
ODOR ALERT!

Do not install air gap on outlet side of interceptor.

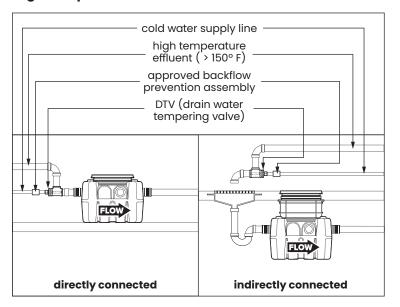


Fully Support Base of Unit

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



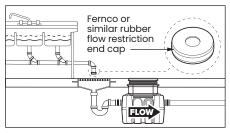
High Temperature Kitchen Water



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).

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

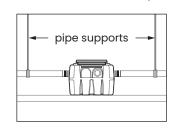


done by installing a valve or flow restriction cap on the sink piping that discharges into the drain. See drawing for guidance. For detailed guidance on indirect connections, go to:

webtools.schierproducts.com/Technical_Data/Indirect_Connections.pdf

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.





SPECIAL PRECAUTIONS

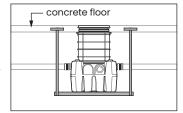
For Schier Grease Interceptor Installations - Failure to follow this guidance voids your warranty

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



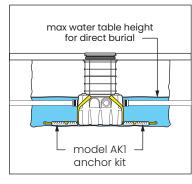
Suspended Installations

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.



High Water Table Installations

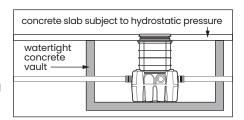
Interceptors and risers are not designed to withstand water table height in excess of the top of the unit when buried (see figure). If it is possible for this to occur, install the interceptor and risers in a water-tight concrete vault or backfill with concrete or flowable fill (wet concrete and flowable backfill should be poured 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-50 uses model AKl 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 yault.

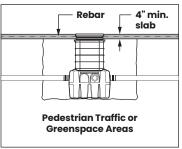


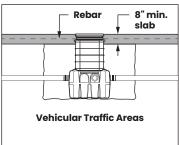
DO NOT COMPACT BACKFILL



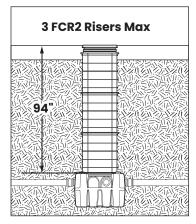
Below Grade Installation Slab Requirements

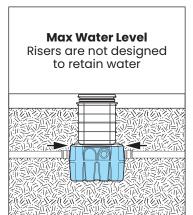
A concrete slab to finished grade with rebar is required when installing interceptor below grade.





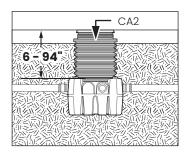
Installations with Risers





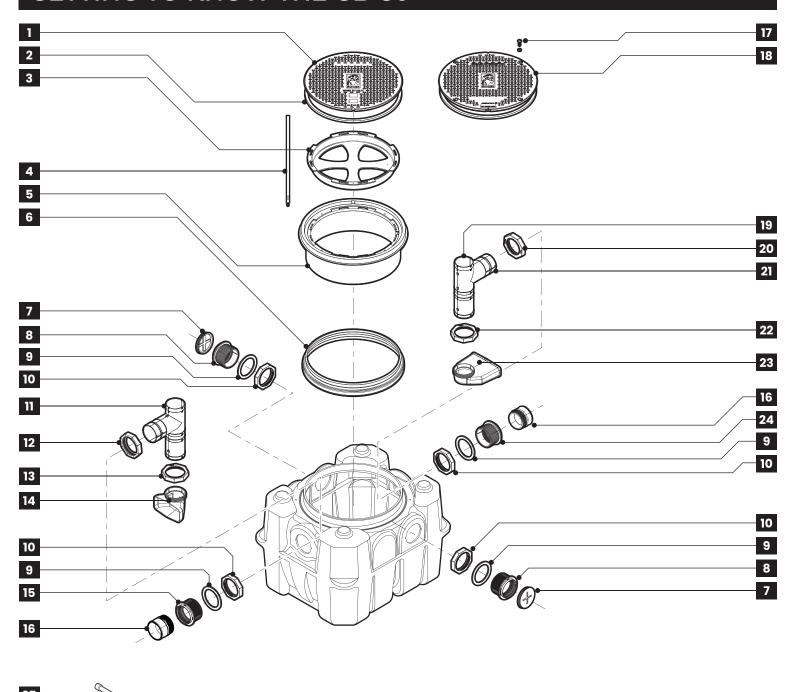
Corrugated Riser Pipe Requirements

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



Schier | GB-50 Installation Guide page 3 of 9

GETTING TO KNOW THE GB-50

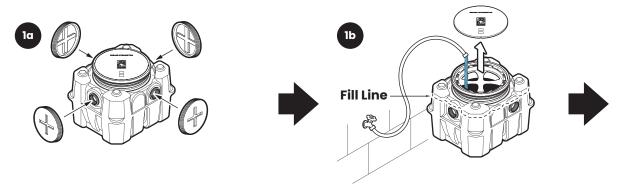


- I. Pickable cast iron cover (standard)
- 2. Cover gasket
- 3. Safety Star
- 4. Safety Star tether
- 5. Cover adapter
- **6.** Cover adapter gasket assembly with upper and lower stainless steel band clamps
- **7.** 4" cleanout plug (x2)
- 8. Outlet bulkhead connection (optional) 4" FPT (x2)

- 9. Bulkhead connection gasket
- 10. Bulkhead connection retaining nut
- 11. Inlet diffuser
- 12. Inlet diffuser retaining nut
- 13. Inlet diffuser foot retaining nut
- 14. Inlet diffuser (foot)
- 15. Inlet bulkhead connection 4" FPT
- **16.** 4" plain end fitting (x2)
- **17.** Composite cover bolts and washers (x4)

- 18. Bolted composite cover (optional)
- 19. Air relief/visual access
- 20. Outlet diffuser retaining nut
- 21. Outlet diffuser
- 22. Outlet diffuser foot retaining nut
- 23. Outlet diffuser (foot)
- **24.** Outlet bulkhead connection (standard) 4" FPT
- 25. 7/16" nut driver bit

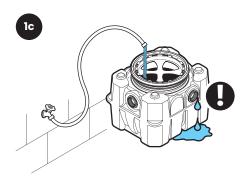
Test tank for water tightness



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

Remove covers. 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.

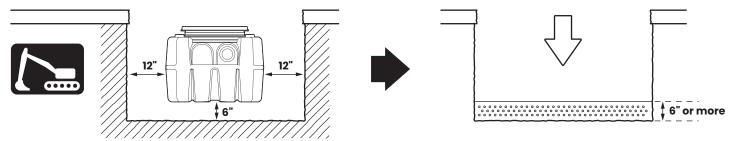


Have a Leak?

Call customer care at 913-951-3300 Hours 8am-5pm CST, M-F

2 Excavate Burial Pit





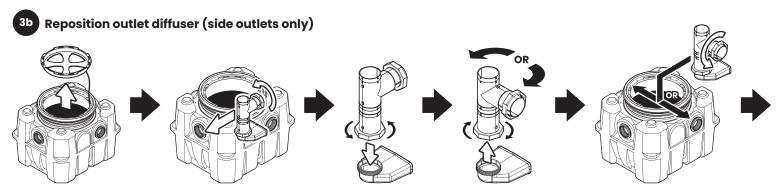
Excavate hole at least 12" larger than interceptor on all sides and 6" deeper than tank bottom. Lay a level bed of well-packed, crushed aggregate (approximately 3/4" size rock or sand, with no fines) in the base of hole.

Schier | GB-50 Installation Guide page 5 of 9

3 Set Up Outlet Diffuser and Install Cleanout Plugs

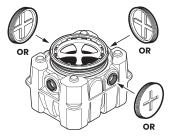
3a Choose outlet location.





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.

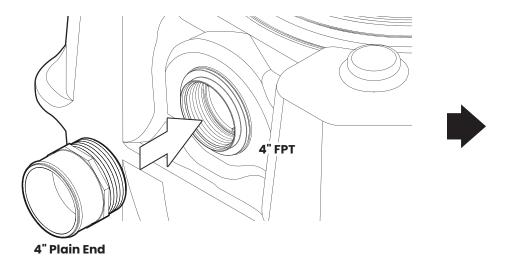
3c Cap unused connections(all configurations)



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.**

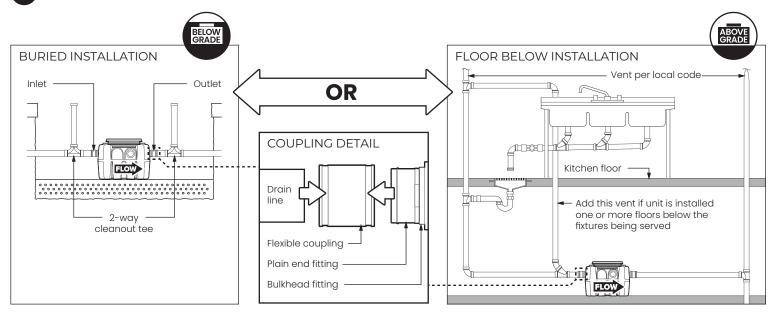
4 Connect Piping

4a 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.

4b 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.

Schier | GB-50 Installation Guide page 7 of 9

Wet or Air Test Piping Per Local Code





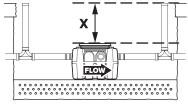
Have a Leak? Call customer care at 913-951-3300 Hours 8am-5pm CST, M-F

Bring Covers Flush-to-Grade ONLY

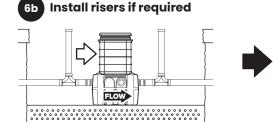


The GB-50 is ready for burial depth of 28-1/2" from finished grade to bottom of tank (or 10-1/2" to centerline of inlet). Deeper burials will require extending the cover adapters and possibly adding risers.

Measure dimension X to determine riser height needed.

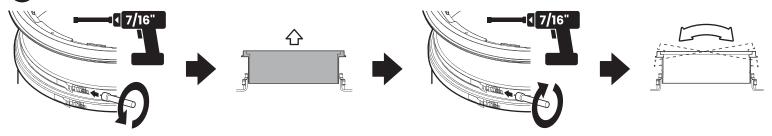


Riser Height Needed	Risers Required
0" - 4"	None (use adapter)
>4" - 34"	FCR2 (x1)
>34" - 64"	FCR2 (x2)
>64" - 94"	FCR2 (x3)



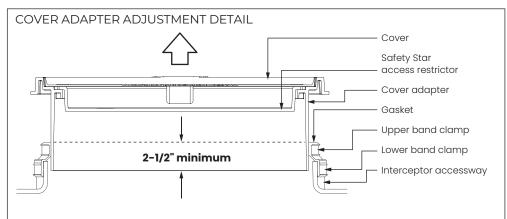
See instructions included with FCR2.

Make final cover adapter adjustments



Loosen the cover adapter upper band clamp using 7/16" Nut Driver Bit. Adjust cover adapter heights as needed.

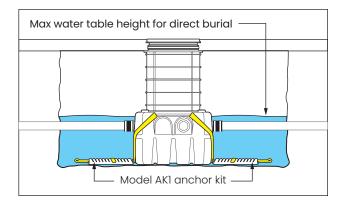
Maintain a minimum 2-1/2" insertion depth. Tighten upper band clamp to 5 -8 ft. lbs. of torque using 7/16" nut driver bit. If required, cover adapters may now be tilted up to 10° in any direction using gasket flexibility.



Schier | GB-50 Installation Guide page 8 of 9

7 Install Anti-Flotation Anchor Kit



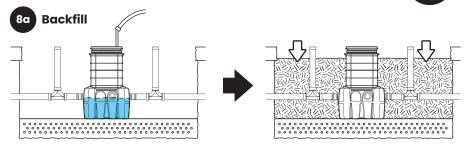


If the installation location is in a high water table or at risk area (including but not limited to tidal surge areas, floodplains and areas that receive storm water) the GB-50 must be installed with Schier model AKI anchor kit.

8 Backfill and Finished Grade





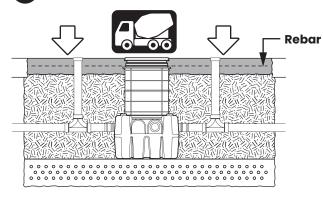


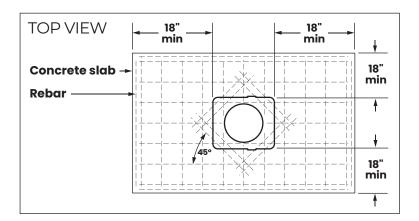




Fill unit with water for stabilization and float-out prevention. Backfill evenly around tank using crushed aggregate (approximately 3/4" size rock or sand with no fines) or flowable fill. **Do not compact backfill around unit.**

8b 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.

Schier | GB-50 Installation Guide page 9 of 9