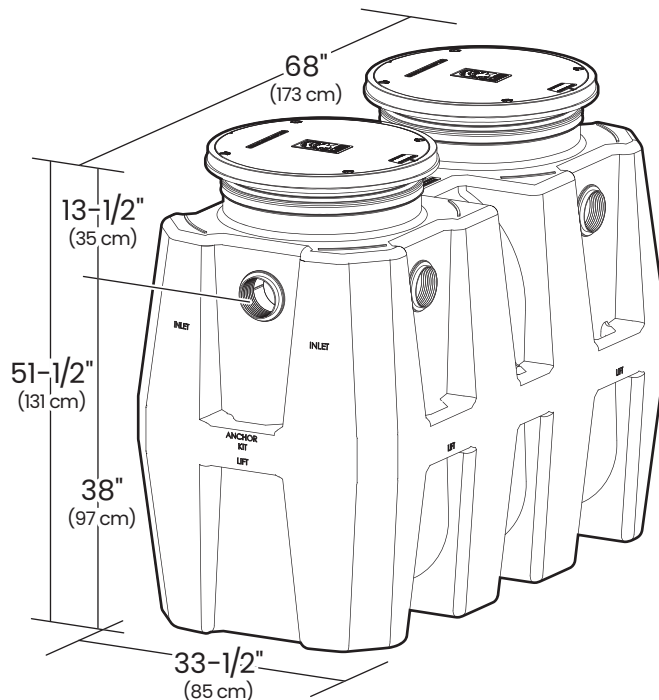
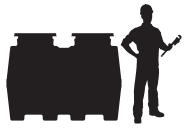


SPECIFICATION AND SUBMITTAL

GB-250 100/200 GPM Grease Interceptor for Indoor/Outdoor Use



This unit is certified to ASME A112.14.3 (Type C) and CSA B481.1 at two different flow rates and includes the internal flow controls for both. External flow control with vent not required.

Satisfies Miami DERM 99% efficiency requirements when at least 2 units are installed in series

SUBMITTAL

Standard

Location: indoor/outdoor

Installation: above/below grade

Flow Rates / Grease Capacities:

100 GPM (6.3 L/s) / 1,751 lbs.

200 GPM (12.6 L/s) / 1,196 lbs.

Solids Capacity: 21 gal.

Liquid Capacity: 275 gal.

Weight: 230 lbs.

Connections: 4" (100 mm) plain end

Cover: bolted gas/water tight composite with 16,000 lb. load rating

Options

☐ 6" (150 mm) plain end inlet/outlet (straight-through)

☐ 6" (150 mm) plain end inlet/outlet (triple-outlet)

☐ 6" (150 mm) male thread inlet/outlet (stainless steel/straight-through)

☐ **-FO:** Fixed outlet (straight-through only)

☐ **PLAIN-EA-24:** 2" (50 mm) plain end fitting

☐ **PLAIN-EA-34:** 3" (75 mm) plain end fitting

☐ **FPT-EA-23:** 3" x 2" (75 x 50 mm) FPT fitting

☐ **FPT-EA-34:** 4" x 3" (100 x 75 mm) FPT fitting

☐ **C24HP:** H20 load rated pickable cast iron cover - 16,000 lbs.

☐ **CC24:** membrane clamping collar kit

☐ **PP3:** Pumpout Port

☐ **AK1:** High Water Anchor Kit

Field Cut Risers

☐ **SR24** (x2) 5" - 23"

☐ **LR24** (x2) >23" - 38"

☐ **SR24** (x4) >38" - 43"

☐ **SR24** (x2) + **LR24** (x2) >43" - 58"

☐ **LR24** (x4) >58" - 72"

Approval

Signature:	Date:	Company:
Specifying Engineer:	Engineering Firm:	



SCHIER
LIFETIME GUARANTEED
GREASE INTERCEPTORS

MODEL NUMBER:
GB-250

DESCRIPTION: 100/200 GPM Polyethylene Grease Interceptor

PART #: 4055-001-02

DWG BY: B. Karrer

DATE: 5/3/2019

REV:

ECO:



SPECIAL PRECAUTIONS

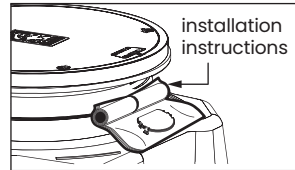
For Schier Grease Interceptor Installations – Failure to follow this guidance voids your warranty

⚠ 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

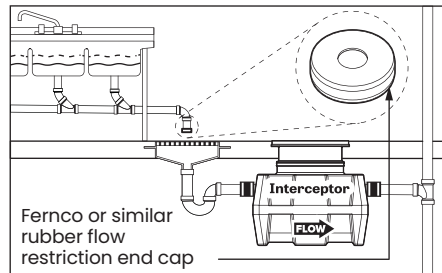
Installation instructions and additional components are included with the interceptor. Read all instructions prior to installation. This interceptor is intended to be installed by a licensed plumber in conformance with all local codes.



When Installing Interceptor Inside

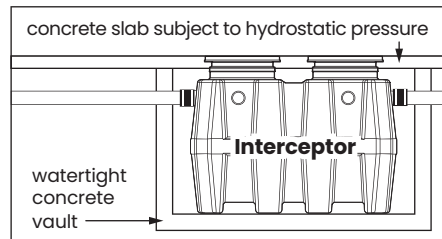
If your dishwashing sink(s) discharges into a floor drain/sink (drain), you must regulate the flow into the drain to avoid an overflow of water onto the kitchen floor. This can be done by installing a valve or flow restriction cap on the sink piping that discharges into the drain.

See drawing for guidance. For detailed guidance on indirect connections, go to: webtools.schierproducts.com/Technical_Data/Indirect_Connections.pdf

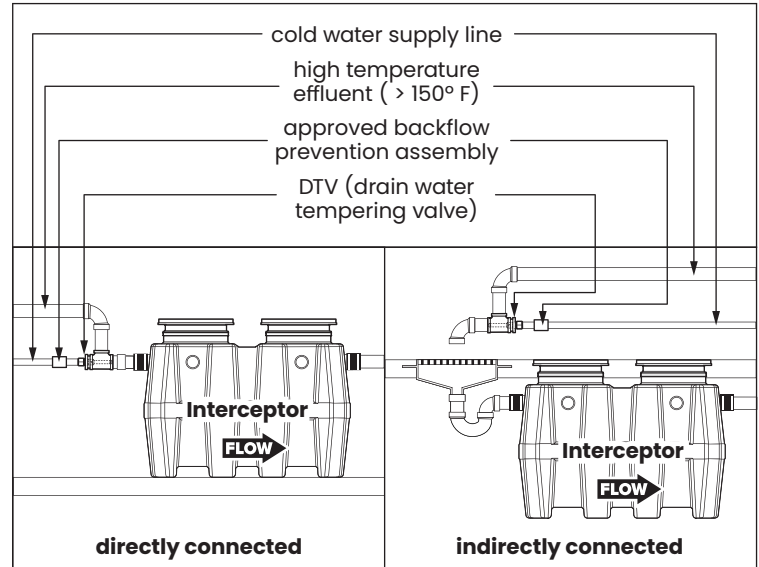


Hydrostatic Slabs (or Pressure Slabs)

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.



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).



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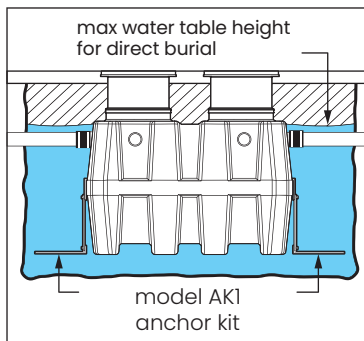


SPECIAL PRECAUTIONS

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

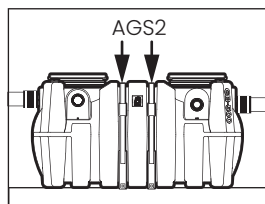
High Water Table Installations

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. Models GB-50, GB-75, and GB-250 use model AK1 anchor kit. Model GB-500 uses model AK2 anchor kit for use with deadmen anchors. Models GB-1000, GGI-750 and GGI-1500 use model AK3 anchor kit for use with deadmen anchors.



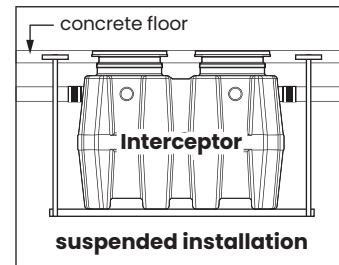
Above Grade Installation Support (for Model GB-500 Only)

The wet weight of the interceptor combined with high temperature kitchen water creates the potential for tank deformation when installed above grade. Model GB-500 installed above grade must be installed with Above Grade Support Kit model AGS2 to maintain structural integrity



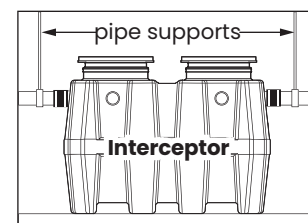
Fully Support Base of Unit

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.

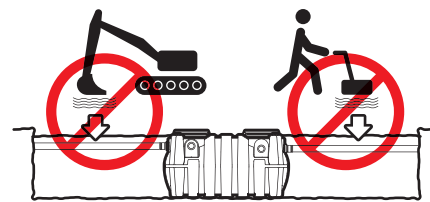


Support Inlet and Outlet Piping

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.



**DO NOT
COMPACT
BACKFILL**



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SPECIFICATIONS

NOTES

- 4" plain end inlet/outlet
- Unit weight - w/composite covers: 230 lbs.; w/cast iron covers: 340 lbs. (For wet weight add 2,290 lbs.)
- Maximum operating temperature: 150° F continuous
- Capacities - Liquid: 275 gal;
@100 GPM - Grease: 1,751 lbs.
@200 GPM - Grease: 1,196 lbs.
Solids: 21 gal.
- Built-in Flow control. For series installations, only install flow control on the first unit in the series if necessary.
- For gravity drainage applications only.
- Do not use for pressure applications.
- Cover placement allows full access to tank for proper maintenance.
- Vent not required unless per local code.
- Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping. For series installations, the top of the inlet diffuser on the first unit in the series must be sealed.
- Integral air relief / Anti-siphon / Sampling access.
- Fixed outlet models (-FO) have inlet and outlet permanently welded at the factory in the straight-through (B) positions.

DIFFUSION FLOW TECHNOLOGY

The inlet diffuser splits influent into three paths, creating laminar flow and utilizing the entire liquid volume of the tank for efficient grease separation. The calibrated openings greatly reduce effluent turbulence. The effluent enters the main chamber without disturbing the existing grease or sediment layers. The integral air relief / anti-siphon in the top of the outlet diffuser allows pressure stabilization within the unit during operation. The bottom of the outlet diffuser allows only effluent which is free of grease to exit the tank. It can easily be attached to any of the three outlets provided to ease job site piping layouts.

ENGINEER SPECIFICATION GUIDE

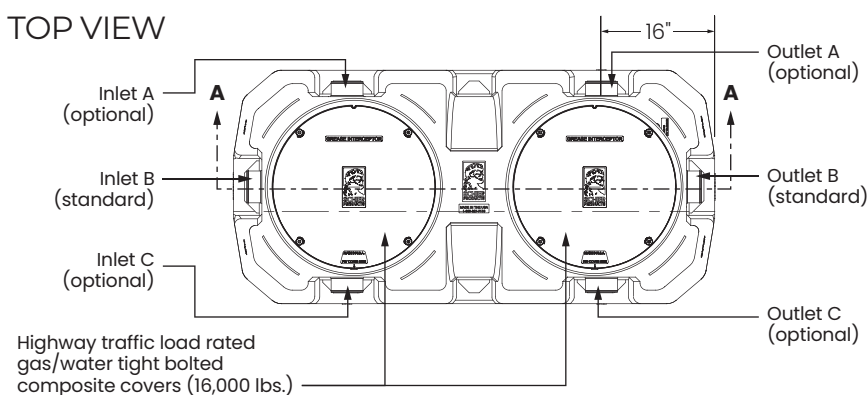
Schier Great Basin™ grease interceptor model # GB-250 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Interceptor shall be furnished for above or below grade installation. Interceptor shall be certified to ASME A112.14.3 (type C) and CSA B481.1, with field adjustable riser system, built-in flow control, three inlet options and three outlet options. Interceptor flow rate shall be 100 or 200 GPM. Interceptor grease capacity shall be 1,751 lbs. @ 100 GPM or 1,196 @ 200 GPM. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

CERTIFIED PERFORMANCE

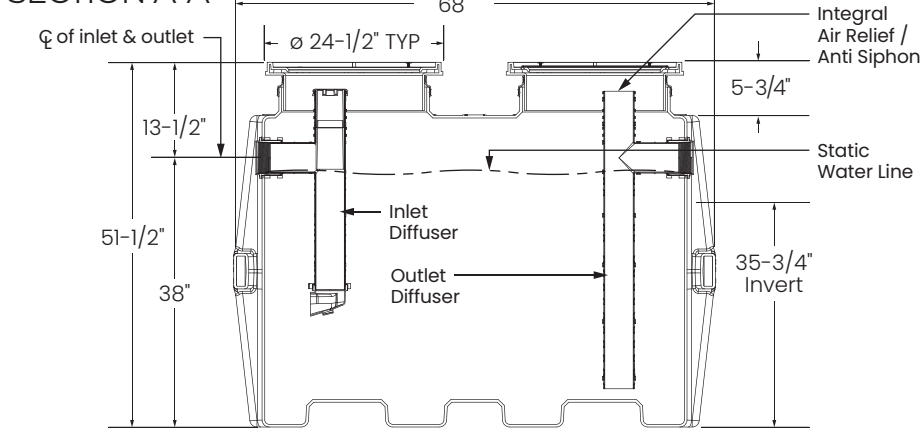
Great Basin hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.



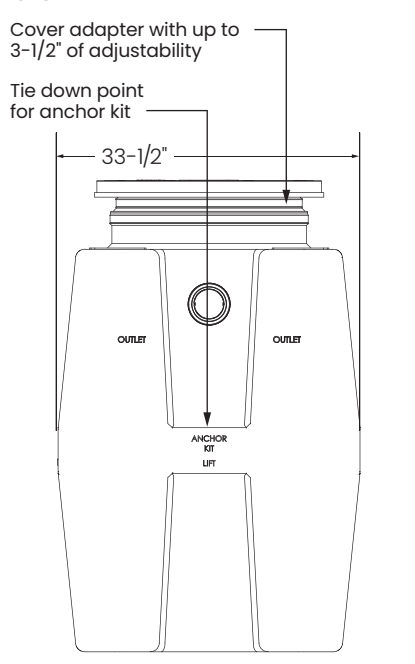
TOP VIEW



SECTION A-A



OUTLET END VIEW



Rated Grease Capacities for Units Piped in Series

No. of Units in Series	Removal Efficiency		
	100 GPM	99%*	200 GPM
2	3,613 lbs.	2,593 lbs.	2,392 lbs.
3	5,364 lbs.	N/A	3,588 lbs.
4	7,226 lbs.	5,186 lbs.	4,784 lbs.
5	8,977 lbs.	N/A	5,980 lbs.
6	10,839 lbs.	7,779 lbs.	7,176 lbs.
7	12,590 lbs.	N/A	8,372 lbs.
8	14,452 lbs.	10,372 lbs.	9,568 lbs.

Units piped in series are certified to ASME A112.14.3 (Type C) and CSA B481.1 and include an internal flow control. External flow control with vent not required. Testing was performed on a series installation of 2 GB-250 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



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