SPECIFICATION AND SUBMITTAL

GB-50  50 GPM Grease Interceptor for Indoor / Outdoor Use

This unit is certified to ASME A112.14.3 (Type C) and CSA B481 and includes an internal flow control. External flow control with vent not required.

SUBMITTAL

**Standard**
- **Location:** indoor/outdoor
- **Installation:** above/below grade
- **Flow Rates / Grease Capacities:**
  - 50 GPM (3.2 L/s) / 249 lbs.
  - Solids Capacity: 12.5 gal.
  - Liquid Capacity: 52 gal.
  - Weight: 92 lbs.
- **Connections:** 4” (100 mm) plain end
- **Cover:** bolted gas/water tight composite with 16,000 lb. load rating

**Options**
- **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 mm x 50 mm) FPT fitting
- **FPT-EA-34:** 4” x 3” (100 mm x 75 mm) FPT fitting
- **C24HP:** H20 load rated pickable cast iron cover - 16,000 lbs.
- **CC2:** membrane clamping collar kit
- **PP3:** Pumpout Port
- **AKT:** High Water Anchor Kit
- **Field Cut Risers**
  - SR24: 5” – 23” field cut riser
  - LR24: >23” – 38” field cut riser

**Approval**

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<th>Signature:</th>
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<td>Specifying Engineer:</td>
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**SPECIFICATION AND SUBMITTAL**

**GB-50**  50 GPM Polyethylene Grease Interceptor

**MODEL NUMBER:** GB-50  **DESCRIPTION:** 50 GPM Polyethylene Grease Interceptor

PART #: 4025-017-01  **DWG BY:** B. Karrer  **DATE:** 9/3/2019  **REV:**  **ECO:**
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 150º F), a drain water tempering valve (DTV) and approved backflow prevention assembly must be installed. Most state and local plumbing codes prohibit water above 150º F being discharged into the sanitary sewer. Water above 150º 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).
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.

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
NOTES
1. 4’ plain end inlet/outlet
2. Unit weight - w/composite cover: 92 lbs.; w/cast iron cover: 172 lbs. (For wet weight add 433 lbs.)
3. Maximum operating temperature: 150º F continuous
5. Built-in Flow control.
6. For gravity drainage applications only.
7. Do not use for pressure applications.
8. Cover placement allows full access to tank for proper maintenance.
9. Vent not required unless per local code.
10. Engineered inlet and outlet diffusers are removable to inspect/clean piping.
11. Integral air relief / Anti-siphon

DIFFUSION FLOW TECHNOLOGY
The inlet diffuser reduces turbulence, creates laminar flow and allows the entire tank volume to be utilized for efficient grease separation and minimal disturbance to existing grease and sediment layers. The integral air relief / anti-siphon at the outlet diffuser top allows pressure stabilization within the unit during operation. The outlet diffuser 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-50 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, with field adjustable riser system, built-in flow control and three outlet options. Interceptor flow rate shall be 50 GPM. Interceptor grease capacity shall be 249 lbs. 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 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.

SPECIFICATIONS

TOP VIEW

SECTION A-A

OUTLET END VIEW