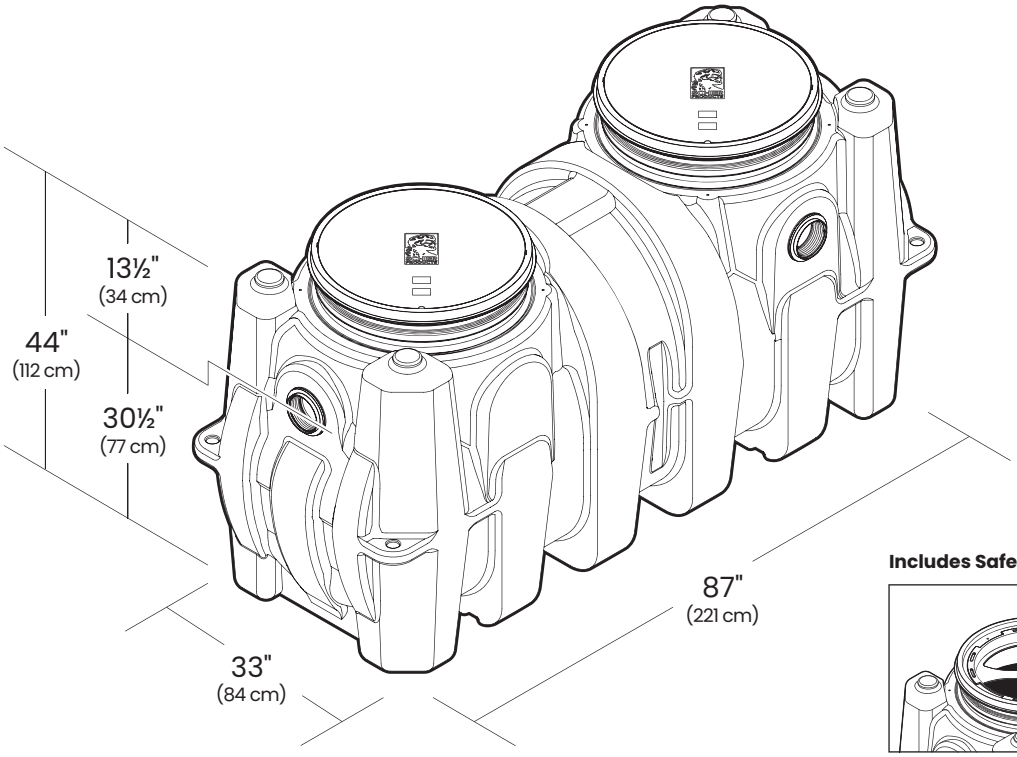
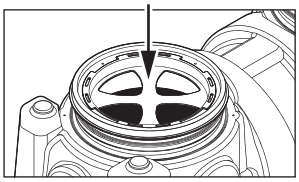
SPECIFICATION AND SUBMITTAL

SI-250 277 Gallon Solids Interceptor for Indoor / Outdoor Use



Includes Safety Star™



SUBMITTAL

Standard

Location: Indoor/Outdoor
Installation: Above/Below grade
Solids Capacity: 262 gal. (992 L)
Flow Rate (4"): 125 GPM (7.9 L/s)
Flow Rate (6"): 375 GPM (23.7 L/s)
Liquid Capacity: 277 gal. (1,049 L)
Weight: 376 lbs. (171 kg)
Connections: 4" (100 mm) FPT (triple outlet) with 4" (100 mm) Plain End Adapters
Covers: cast iron covers, pickable 24" gas/water tight, H-20 rated, proof-load tested to 40,000 lbs.
Access Restrictor: Safety Star™ (450 lb. rating) built into each cover adapter

Options

- ☐ 6" Plain End Inlet/Outlet (straight-through) with Dual Pumpout Port Connections
- ☐ **PLAIN-EA-24:** 2" Plain End Fitting
- ☐ **PLAIN-EA-34:** 3" Plain End Fitting
- ☐ **FPT-EA-34:** 4" x 3" FPT Fitting
- ☐ **FPT-EA-23:** 3" x 2" FPT Fitting
- ☐ **AK1:** High Water Anchor Kit
- ☐ **C24H2:** composite covers, bolted 24" gas/water tight, traffic load rated for 16,000 lbs.
- ☐ **CC2:** Integral Membrane Clamping Collar Kit
- ☐ **FCR2** (x2) >4" – 34" Field Cut Riser
- ☐ **FCR2** (x4) >34" – 64" Field Cut Risers
- ☐ **FCR2** (x6) >64" – 94" Field Cut Risers
- ☐ **PP3:** Pumpout Port

Approval

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

SCHIER

MODEL NUMBER:	DESCRIPTION:			
SI-250	277 Gallon Polyethylene Solids Interceptor			
PART #: 5055-001-01	DWG BY: B. Karrer	DATE: 4/29/2020	REV:	ECO:

9500 Woodend Road | Edwardsville, KS 66111 | 913-951-3300 | schierproducts.com

SPECIAL PRECAUTIONS

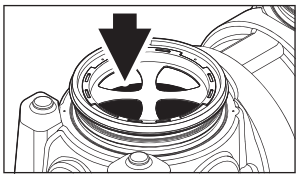
For Schier Solids Interceptor Installations - Failure to follow this guidance voids your warranty

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.

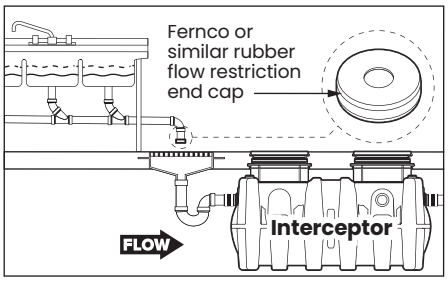
Installation Instructions

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.



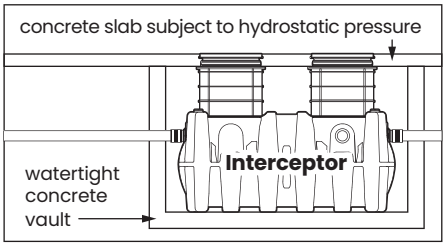
When Installing Interceptor Inside

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

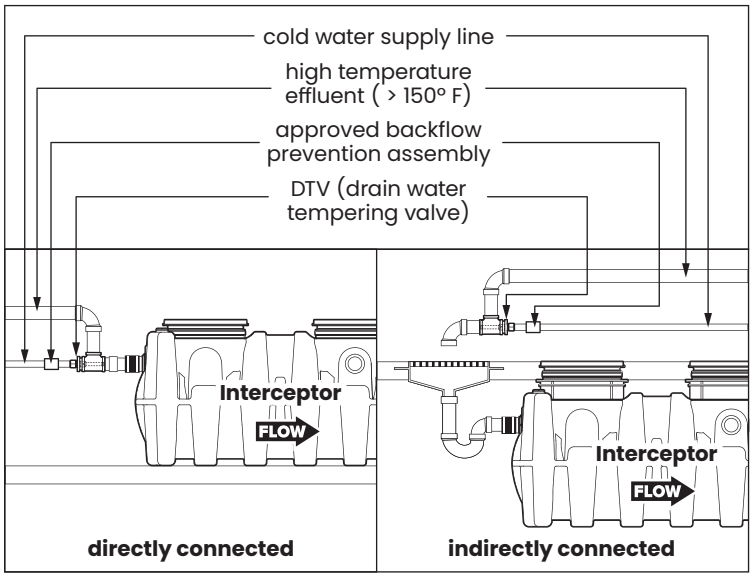


Hydrostatic/Pressure Slabs

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).

SCHIER

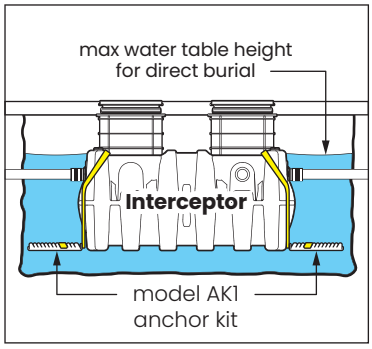
MODEL NUMBER: SI-250	DESCRIPTION: 277 Gallon Polyethylene Solids Interceptor			
PART #: 5055-001-01	DWG BY: B. Karrer	DATE: 4/29/2020	REV:	ECO:

9500 Woodend Road | Edwardsville, KS 66111 | 913-951-3300 | schierproducts.com

SPECIAL PRECAUTIONS

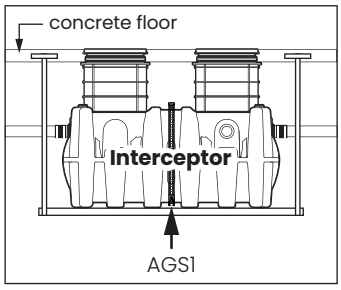
For Schier Solids Interceptor Installations - Failure to follow this guidance voids your warranty

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. Billy Goat™ models that are direct buried in high water table scenarios must be installed with an anchor kit. Model SI-250 uses model AK1 anchor kit.

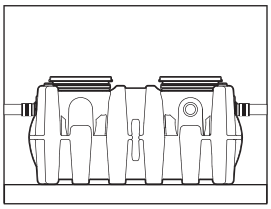
Suspended Installations



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. The wet weight of the interceptor combined with high temperature kitchen water creates the potential for tank deformation in suspended installations. In these situations Above Grade Support Kit model AGS1 is required to be installed to maintain SI-250 structural integrity.

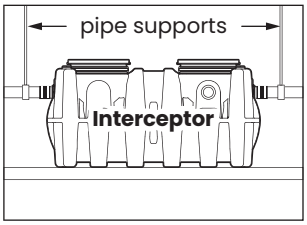
Fully Support Base of Unit

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

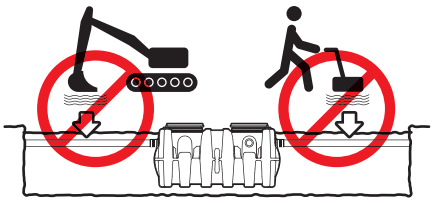


Support Inlet and Outlet Piping

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.



DO NOT COMPACT BACKFILL



SCHIER

MODEL NUMBER: SI-250	DESCRIPTION: 277 Gallon Polyethylene Solids Interceptor			
PART #: 5055-001-01	DWG BY: B. Karrer	DATE: 4/29/2020	REV:	ECO:

9500 Woodend Road | Edwardsville, KS 66111 | 913-951-3300 | schierproducts.com

SPECIFICATIONS

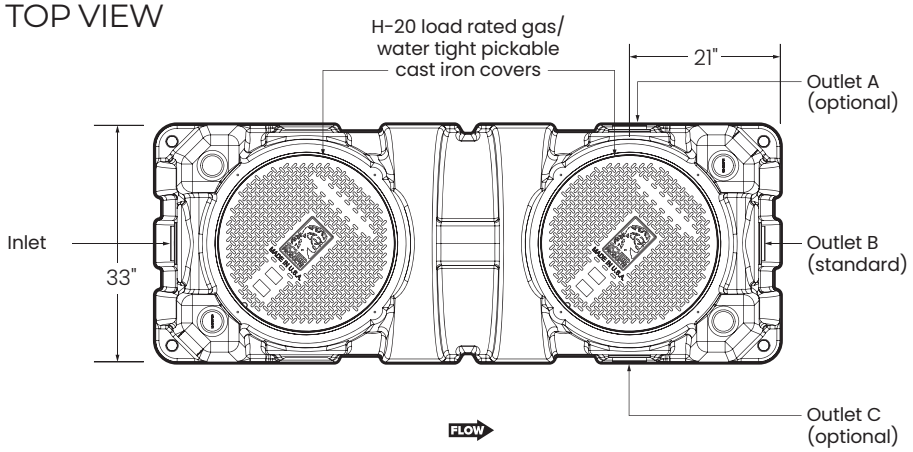
NOTES

1. 4" plain end inlet/outlet
2. Unit weight - w/cast iron covers: 376 lbs.; w/composite covers: 266 lbs. (For wet weight add 2,310 lbs.)
3. Maximum operating temperature: 150° F continuous
4. Capacities - Liquid: 277 gal.; Solids: 262 gal.
5. For gravity drainage applications only.
6. Do not use for pressure applications.
7. Cover placement allows full access to tank for proper maintenance.
8. Vent not required unless per local code.
9. Engineered inlet and outlet diffusers are removable to inspect / clean piping.
10. Integral air relief / Anti-siphon / Sampling access.
11. Safety Star™, access restrictor built into each cover adapter, prevents accidental entry to tanks (450 lb rating)

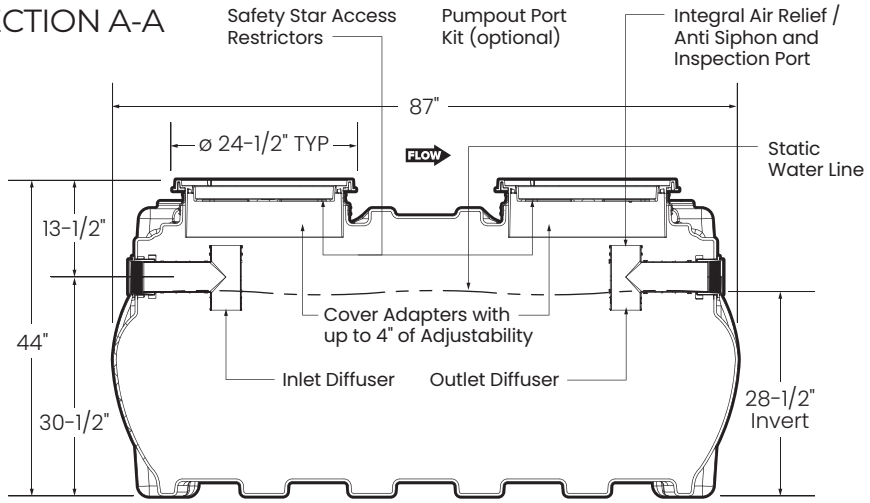
ENGINEER SPECIFICATION GUIDE

Schier Billy Goat™ solids interceptor model # SI-250 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Interceptor shall be furnished for above or below grade installation with field adjustable riser system, Safety Star™ access restrictor built into each cover adapter and three outlet options. Interceptor solids capacity shall be 262 gallons. Interceptor maximum flow rate shall be 200 GPM. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

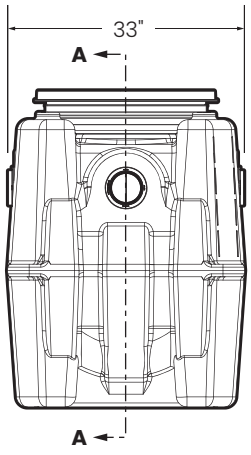
TOP VIEW



SECTION A-A



INLET END VIEW



SCHIER

MODEL NUMBER: SI-250	DESCRIPTION: 277 Gallon Polyethylene Solids Interceptor			
PART #: 5055-001-01	DWG BY: B. Karrer	DATE: 4/29/2020	REV:	ECO:

9500 Woodend Road | Edwardsville, KS 66111 | 913-951-3300 | schierproducts.com