SI-75 125 Gallon Billy Goat™ Indoor/Outdoor Kitchen Solids Interceptor

Adjustable cover adapters provide up to 4” of additional height.

**Standard**
- **Location:** Indoor/outdoor
- **Installation:** Above/below grade
- **Solids Capacity:** 109 gal. (413 L)
- **Flow Rate (4”):** 125 GPM (7.9 L/s)
- **Flow Rate (6”):** 375 GPM (23.7 L/s)
- **Liquid Capacity:** 125 gal. (473 L)
- **Weight:** 190 lbs. (86 kg)
- **Connections:** 4” FPT with 4” plain end adapters, single inlet and triple outlet
- **Covers:** Cast iron cover, pickable 24” gas/water tight, H-20 rated, proof-load tested to 40,000 lbs.
- **Access Restrictor:** Safety Star® (450 lb. rating) built into cover adapter

**Options**
- 6” plain end inlet/outlet (straight-through) with dual pumpout port connections
- **C24H2:** Composite covers, bolted 24” gas/water tight, traffic load rated for 16,000 lbs.

**Accessories**
- **FCR2:** >4” – 34” field cut riser
- **FCR2 (x2):** >34” – 64” field cut risers
- **FCR2 (x3):** >64” – 94” field cut risers
- **CA2:** Adapter for 24” corrugated pipe riser
- **PP3:** Pumpout port
- **AK1:** High water anchor kit
- **ATD1:** Cover adapter tie-down kit
- **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
- **CC2:** Integral membrane clamping collar kit

**Approval**

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<td>Specifying Engineer:</td>
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**Model Number:** SI-75  
**Description:** 125 Gallon Polyethylene Kitchen Solids Interceptor

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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 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).

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 C24H2 for above grade installations

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**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 ATDI.

**Below Grade Installation Slab Requirements**

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

**Pedestrian Traffic or Greenspace Areas**

4" min. slab

**Vehicular Traffic Areas**

8" min. slab

**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 watertight 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 SI-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.

**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 adaptation failure under traffic rated loads.

**DO NOT COMPACT BACKFILL MECHANICALLY**

Compact by hand only.

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**PART #: 5045-002-01**  
**DWG BY: B. Karrer**  
**DATE: 9/15/2020**  
**REV:**  
**ECO:**
NOTES
1. 4" FPT with 4" plain end adapters, single inlet and triple outlet
2. Unit weight - w/cast iron cover: 190 lbs.; w/composite cover: 135 lbs. (For wet weight add 1,043 lbs.)
3. Maximum operating temperature: 150º F continuous
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. Adjustable cover adapters provide up to 4" of additional height.
12. Safety Star®, access restrictor built into cover adapter, prevents accidental entry to tanks (450 lb rating)

ENGINEER SPECIFICATION GUIDE
Schier Billy Goat™ solids interceptor model # SI-75 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Interceptor shall be furnished for above or below grade installation with adjustable cover adapter and Safety Star® access restrictor built into cover adapter and three outlet options. Interceptor solids capacity shall be 109 gallons. Interceptor maximum flow rate shall be 125 GPM with 4" and 375 GPM with 6". Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

TOP VIEW

SECTION A-A

INLET END VIEW