

**CATALOG 2016**



# **SCHIER**

**LIFETIME GUARANTEED  
GREASE INTERCEPTORS**

# The Schier Story

We live in a disposable world. Many of our tools, appliances, home computers and cars are built to fail, encouraging us to get back out there and buy, buy again. But there's also a resurgence in a different, older school of thought that runs counter to that. The belief that things should be built to last. People now expect more from their coolers, jeans, workboots and blenders. We think you should expect the same from your grease interceptor.

When we started with Schier in 2003, half of our products were made from steel. Guaranteed to fail. Some plumbers would half-joke "hey man, that's job security." Not to us. In 2006 when we launched the Great Basin™, we made a bet that our customers wanted something better. We believed that grease interceptors should not only be ridiculously efficient but they should also last a long time.

We think that job security comes not from built in obsolescence but from taking your time to do the right thing. Thank you for being a part of what we do. We look forward to working with you again real soon.

Charlie Ismert | President

Luke Ismert | CEO



## Lifetime Guaranteed

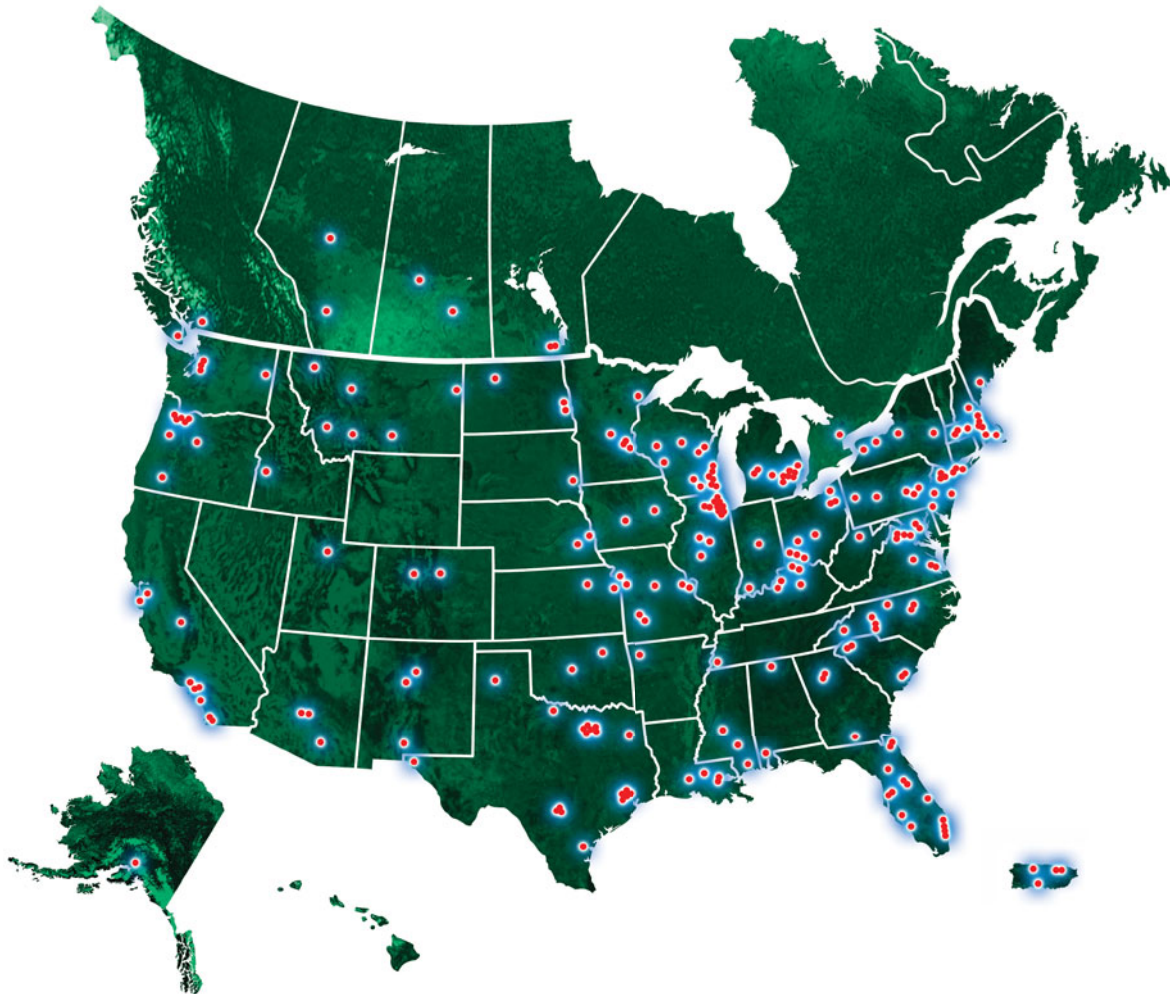
If you sized it right, installed it right and maintained it right and your Schier product didn't meet your expectations, we'll make it right. Sizing must be conducted in cooperation with a plumbing professional and be approved by the local authority having jurisdiction. Installation must be completed by a licensed plumber per installation instructions. Product shall be maintained regularly by a professional contractor. Warranty only valid for US and Canadian installations and does not cover gasket and hardware.

## 100% American Made

We're proud of the fact that all of our products are American made, but maybe not for the reasons you think. We don't do it to make a social statement or so you can check a box. We do it to ensure better quality and reliable sourcing for every component. We also don't think you should buy from us just because we're Made in the USA. You should buy from us if you believe that we make the best product on the market. Simple as that.

## Locally Stocked

With hundreds of brick and mortar distributors throughout North America, we have a nearby store with your Great Basin™ grease interceptor in-stock. Visit [schierproducts.com](http://schierproducts.com) to find your local distributor.

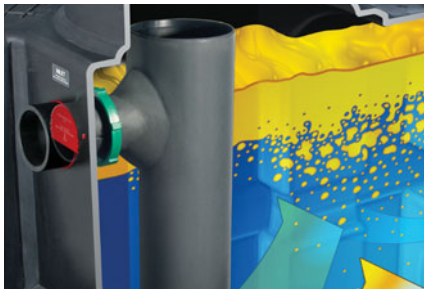


# Great Basin™ for all installations

## Over 70,000

### units installed since 2006

From time-saving, original installation features to the only lifetime guaranteed design, the Great Basin™ has become the preferred grease interceptor for thousands of plumbers and specifying engineers.



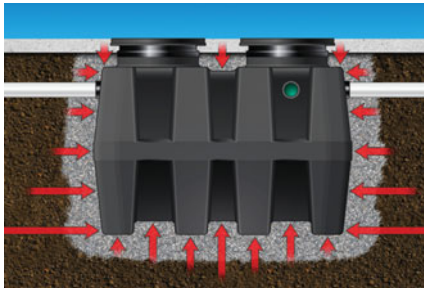
built-in flow control saves up to 90 minutes over units with external flow control



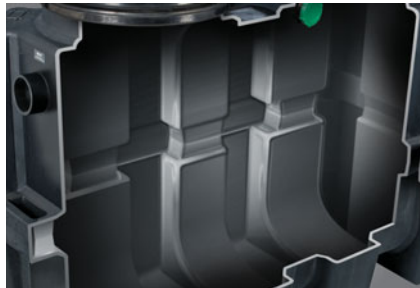
built-in triple outlet saves time, space and piping



all models fit through commercial doorways



exterior units exceed ASTM C890 structural requirements



rotationally molded HDPE up to 1/2" thick



TeleGlide™ field adjustable risers up to 16" for GB-15, GB-20 and GB-25



TeleGlide™ field adjustable risers up to 36" for GB-35 and GB-50; up to 72" for GB-75 and GB-250



covers for every application



**5 YEARS**  
typical steel lifespan

replacement of rusted steel unit with Schier model GB-75



**GB-15**  
indoor

15 GPM  
74 lbs. grease retained  
16 gal. liquid capacity  
25" L x 19" W x 14-1/4" H  
26 lbs. dry weight  
high density polyethylene



**GB-20**  
indoor

20 GPM  
109 lbs. grease retained  
22 gal. liquid capacity  
27" L x 21" W x 15" H  
31 lbs. dry weight  
high density polyethylene



**GB-25**  
indoor

25 GPM  
75 lbs. grease retained  
22 gal. liquid capacity  
27" L x 21" W x 15" H  
31 lbs. dry weight  
high density polyethylene



**GB-35**  
indoor

35 GPM  
142 lbs. grease retained  
35 gal. liquid capacity  
33" L x 25" W x 25" H  
77 lbs. dry weight  
high density polyethylene



**10 YEARS**  
typical concrete lifespan

replacement of corroded concrete unit with Schier model GB-250



**GB-50**  
indoor/outdoor

50 GPM  
249 lbs. grease retained  
52 gal. liquid capacity  
37" L x 28" W x 28-1/2" H  
92 lbs. dry weight  
high density polyethylene



**GB-75**  
indoor/outdoor

75 GPM  
616 lbs. grease retained  
125 gal. liquid capacity  
46" L x 32" W x 38-1/2" H  
130 lbs. dry weight  
high density polyethylene



**GB-250**  
indoor/outdoor

100 GPM  
1,076 lbs. grease retained  
275 gal. liquid capacity  
68" L x 33-1/2" W x 51-1/2" H  
230 lbs. dry weight  
high density polyethylene

See page 10-11 for available accessories. For detailed specifications and pricing visit our website.

# Great Basin™ performance

Diffusion Flow™ significantly reduces inlet velocity, creating laminar flow and maximizing grease separation efficiency.



Schier engineer lab testing a grease interceptor

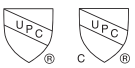


cutaway image of model GB-250 showing Diffusion Flow™

## Summary of Great Basin™ Performance

For complete version of Great Basin™ ASME lab tests, visit [schierproducts.com](http://schierproducts.com)



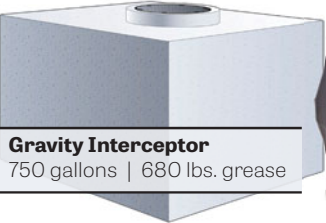

model	GB-15	GB-20	GB-25	GB-35	GB-50	GB-75	GB-250
total liquid volume	16 gal.	22 gal.	22 gal.	35 gal.	52 gal.	125 gal.	275 gal.
flow rate	15 GPM	20 GPM	25 GPM	35 GPM	50 GPM	75 GPM	100 GPM
min. grease requirement	30 lbs.	40 lbs.	50 lbs.	70 lbs.	100 lbs.	150 lbs.	200 lbs.
grease retained	74 lbs.	109 lbs.	75 lbs.	142 lbs.	249 lbs.	616 lbs.	1,076 lbs.



All models UPC listed to ASME A112.14.3 and cUPC listed to CSA B481.1. See Schier listing at [pld.iapmo.org/file\\_info.asp?file\\_no=0005317](http://pld.iapmo.org/file_info.asp?file_no=0005317)

## The Concrete Alternative

The following graphics depict the certified capacities of select Great Basin™ models vs. typical gravity interceptors and should not be used for sizing cross reference. Grease capacities for gravity units shown based on 25% rule with 1:1 FOG to solids ratio. Note that the average weight of lard is 7.263 lbs per gallon.

 <b>Gravity Interceptor</b> 1,000 gallons   907 lbs. grease	 <b>Great Basin™ GB-250</b> 275 gallons   1,076 lbs. grease	 <b>Gravity Interceptor</b> 750 gallons   680 lbs. grease	 <b>Great Basin™ GB-75</b> 125 gallons   616 lbs. grease
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# Grease Production Sizing Method™

Schier recommends the Grease Production Sizing Method™ for product selection by pumpout frequency. Always review plumbing code and local ordinances for specific requirements.

## step 1: size by flow rate

**hydromechanical grease interceptor sizing using gravity flow rates** (per Ch. 10 of the Uniform Plumbing Code)

diameter of grease waste pipe	maximum full pipe flow*	size of grease interceptor	
		one-minute drainage period	two-minute drainage period
2"	20 GPM	20 GPM	10 GPM
3"	60 GPM	75 GPM	35 GPM
4"	125 GPM	150 GPM	75 GPM
5"	230 GPM	250 GPM	125 GPM
6"	375 GPM	500 GPM	250 GPM

\*1/4 inch slope per foot based on Manning's formula with friction factor N = 0.012.

**Recommended**

## step 2: select grease capacity for pumpout frequency

meals per day



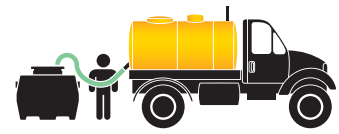
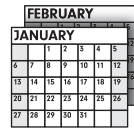
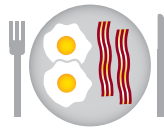
grease production values  
(see **A** - **H** below)



days per pumpout cycle



**grease capacity needed**



cuisine type	grease production values	foodservice establishment examples
low grease production	<b>A</b> 0.005 lbs / meal (no flatware)	elementary cafeteria, grocery meat department, hotel breakfast bar, sub shop, sushi, take & bake pizza
	<b>B</b> 0.0065 lbs / meal (with flatware)	
medium grease production	<b>C</b> 0.025 lbs / meal (no flatware)	cafés, coffee shop, convenience store, grocery deli, Greek, Indian, Japanese, Korean, Thai, Vietnamese, low category restaurants w/ fryer
	<b>D</b> 0.0325 lbs / meal (with flatware)	
high grease production	<b>E</b> 0.035 lbs / meal (no flatware)	full fare family, fast food hamburger, hamburger bar and grill, German, Italian, fast food Mexican, medium category restaurants w/ fryer
	<b>F</b> 0.0455 lbs / meal (with flatware)	
very high grease production	<b>G</b> 0.058 lbs / meal (no flatware)	full fare BBQ, fast food fried chicken, full fare Mexican, steak and seafood, Chinese, Hawaiian
	<b>H</b> 0.075 lbs / meal (with flatware)	

## quick reference for Great Basin™ sizing

	meals per day	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>
<b>30 DAY CYCLE</b>	250	GB-15	GB-15	GB-50	GB-50	GB-75	GB-75	GB-75	GB-75
	500	GB-15	GB-20	GB-75	GB-75	GB-75	GB-250	GB-250	GB-250
	750	GB-20	GB-35	GB-75	GB-250	GB-250	GB-250	GB-250 (x2)	GB-250 (x2)
	1,000	GB-35	GB-50	GB-250	GB-250	GB-250	GB-250 (x2)	GB-250 (x2)	GB-250 (x3)
<b>60 DAY CYCLE</b>	250	GB-15	GB-20	GB-75	GB-75	GB-75	GB-250	GB-250	GB-250
	500	GB-35	GB-50	GB-250	GB-250	GB-250	GB-250 (x2)	GB-250 (x2)	GB-250 (x3)
	750	GB-50	GB-75	GB-250	GB-250 (x2)	GB-250 (x2)	GB-250 (x2)	GB-250 (x3)	GB-250 (x4)
	1,000	GB-75	GB-75	GB-250 (x2)	GB-250 (x2)	GB-250 (x2)	GB-250 (x3)	GB-250 (x4)	GB-250 (x5)
<b>90 DAY CYCLE</b>	250	GB-20	GB-35	GB-75	GB-250	GB-250	GB-250	GB-250 (x2)	GB-250 (x2)
	500	GB-50	GB-75	GB-250	GB-250 (x2)	GB-250 (x2)	GB-250 (x2)	GB-250 (x3)	GB-250 (x4)
	750	GB-75	GB-75	GB-250 (x2)	GB-250 (x2)	GB-250 (x2)	GB-250 (x3)	GB-250 (x4)	GB-250 (x5)
	1,000	GB-75	GB-75	GB-250 (x2)	GB-250 (x3)	GB-250 (x3)	GB-250 (x4)	GB-250 (x5)	GB-250 (x6)

In 2012 Schier first published the Grease Production Sizing Method™ which has since been used for thousands of projects. Grease production values based on comprehensive data from Brown Grease Supply Study, field inspections from various jurisdictions, surveys of end users and pumper contractors. Actual grease production is independent to each foodservice establishment and will vary by entrée, kitchen practices and other factors.

# Big Foot™ gravity grease interceptors

Recommended for use when Great Basin™ grease interceptors are not allowed by local jurisdiction. Some local ordinances specifically use volume based sizing with no viable method for alternate sizing methods.



concrete units corrode and require replacement every 10 years (avg.)



GGI-1000 prior to installation at a university cafeteria



## GGI-750

**outdoor**

314 GPM  
810 lbs. grease retained  
750 gal. liquid capacity  
81"L x 68"W x 76-1/2"H  
1,200 lbs. dry weight  
high density polyethylene



## GGI-1000

**outdoor**

314 GPM  
1,080 lbs. grease retained  
1,000 gal. liquid capacity  
90"L x 67-1/2"W x 76-3/4"H  
1,400 lbs. dry weight  
high density polyethylene



## GGI-1500

**outdoor**

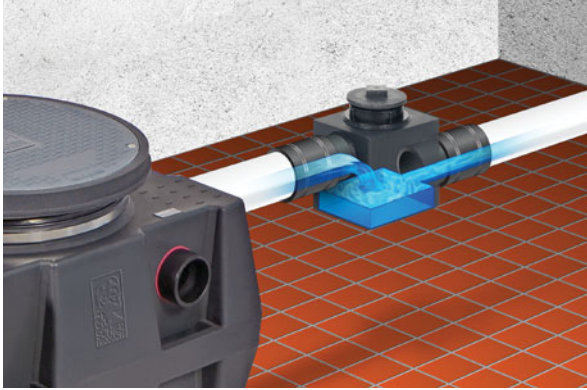
314 GPM  
1,620 lbs. grease retained  
1,500 gal. liquid capacity  
120"L x 68"W x 77"H  
1,700 lbs. dry weight  
high density polyethylene

See page 10-11 for available accessories. For detailed specifications and pricing visit our website.



# Sewer Viewer™ sampling ports

Recommended for use where sampling ports are required.



SV4-O installed downstream from a GB-50



## SV4-L indoor/outdoor above grade

9"L x 9"W x 9"H  
5 lbs. dry weight  
level connections  
high density polyethylene



## SV4-O indoor/outdoor above grade

9"L x 9"W x 9"H  
5 lbs. dry weight  
offset connections  
high density polyethylene



SV24-O installed downstream from a GB-250



## SV24-L indoor/outdoor above grade/below grade

24-1/2" dia. x 27-1/2" H  
65 lbs. dry weight  
level connections  
high density polyethylene



## SV24-O indoor/outdoor above grade/below grade

24-1/2" dia. x 27-1/2" H  
65 lbs. dry weight  
offset connections  
high density polyethylene



top view of GB-250 outlet diffuser in service

**note:** larger grease interceptor models (GB-75, GB-250, GGI-750, GGI-1000 and GGI-1500) include 6" diameter open top inlet and outlet diffusers to provide access for visual inspection. Where allowed, this design may also be used as an internal sampling port, eliminating the need for a downstream sampling port (i.e. Sewer Viewer™).

See page 10-11 for available accessories. For detailed specifications and pricing visit our website.

## accessories

The following accessories may accompany base models at the time of purchase or separately. See compatibility chart to identify which accessories are available with according base models.



**Risers: SR-16**

Riser for grease interceptors with 16" covers installed below grade



**Risers: SR-24 & LR-24**

Risers for products with 24" covers installed below grade



**Clamping Collar: CC16**

Clamping collar for units with 16" covers, recessed and suspended



**Clamping Collar: CC24**

Clamping collar for units with 24" covers, recessed and suspended



**Covers: C16M**

16" bolted polypropylene cover rated for pedestrian loads up to 2,000 lbs



**Covers: C24M**

24" bolted composite cover rated for pedestrian loads up to 2,000 lbs



**Covers: C24H**

24" bolted composite cover rated for highway loads up to 16,000 lbs



**Covers: C24HP**

24" pickable cast iron cover rated for H-20 heavy duty loads



**Pumpout Port Kit: Small**

Converts unused outlet into pumpout port, from the factory or in the field



**Pumpout Port Kit: Medium & Large**

Converts unused outlet into pumpout port, from the factory or in the field



**Anchor Kit: AK1**

SS anchor kit for exterior installation in high water table to prevent float out

# compatibility chart

Accessories	Models	GB-15	GB-20	GB-25	GB-35	GB-50	GB-75	GB-250	GGI-750	GGI-1000	GGI-1500	SV24-L	SV24-O
Risers: SR-16	●	●	●										
Risers: SR-24				●	●	●	●	●	●	●	●	●	
Risers: LR-24				●	●	●	●	●	●	●	●	●	
Clamping Collar: CC16	●	●	●										
Clamping Collar: CC24				●	●	●	●					●	●
Covers: C16M	○	○	○										
Covers: C24M				○	○	●	●					●	●
Covers: C24H					●	○	○	○	○	○	○	○	○
Covers: C24HP					●	●	●	●	●	●	●	●	●
Pumpout Port Kit: Small*	●	●	●	●									
Pumpout Port Kit: Medium**					●	●							
Pumpout Port Kit: Large**							●						
Anchor Kit: AK1					●	●	●						

● Additional ○ Standard

\* Available with 2" or 3" connections

\*\* Available with 4" connections



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