

Highland Passive Grease Interceptors



Highland Tank[®]
Waste Water Division



Single Basin

Double Basin

Triple Basin

Highland Passive Grease Interceptors (PGI)

Highland's Passive Grease Interceptors help restaurants and food service facilities comply with the EPA Sewer Pretreatment Regulations! Highland PGI are gravity-based grease interceptors designed to intercept and remove large quantities of sewer clogging fats, oils, and grease (FOG) that might interfere with the proper drainage and treatment of municipal wastewater. These large capacity interceptors have much more retention time, storage capacity, and require much less maintenance by the food facility personnel than smaller capacity indoor grease traps. In addition, Highland PGI are lighter than traditional concrete units, resulting in lower delivery, crane rental, and installation costs.

Highland PGI are highly efficient and meet or exceed all municipal FOG discharge regulations. Their design, construction, and sizing conform to recognized plumbing codes, including those with 30 minute retention times.

Higher Performance Than Competitive Units!

Highland's easy to install interceptors are typically located outside a building near the source of the discharge. They are buried belowground to receive the gravity flow from all grease or solids receiving kitchen fixtures and drains.

Like Highland's patented oil/water separators, our PGI contain specially designed internal baffles designed to reduce flow turbulence and accelerate the separation process. This exclusive "Diffusion and Switchback Baffling System™" permits the interceptor to retain wastewater long enough for the liquefied grease to separate, cool, and congeal.

The interceptor is divided into multiple compartments. Solids sink to the bottom and collect at the sludge baffles. The grease floats to the surface and accumulates at the grease dams, leaving clearer water beneath as the discharge. Regular inspections determine the thickness of the grease and solids layer. Grease is pumped out through the top quick-opening manways. The cylindrical design is easier to clean than flat bottom interceptors. During pumpout, all the solids and liquids flow to the bottom centerline, right to the suction hose!

Advantages

- *Large volumes with long retention times, even 30 minutes!*
- *"Diffusion and Switchback Baffling System™" results in better performance.*
- *Pressure tested for tightness.*
- *Lighter and easier to install than similar sized concrete units.*
- *Easy to clean! Solids and liquids flow to the bottom centerline, right to the suction hose!*
- *State of the art exterior corrosion protection system with 30-year warranty.*
- *Heavy-duty interior high temperature, acid resistant lining.*
- *Large manways for inspection, maintenance, and access.*
- *Conforms to IAPMO - PS - 80 - 2006.*

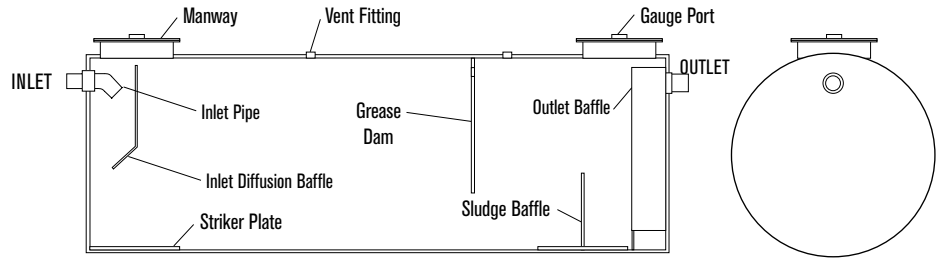
Construction

Highland PGI are of the highest quality and are designed for the rigors of a belowground environment. They are constructed from heavy-duty carbon steel, meeting ASTM specifications, for superior strength and durability. Unlike old-style concrete or fiberglass units, Highland's PGI don't crack or collapse under hydrostatic pressure! And we can certify that they're tight – all Highland interceptors are pressure tested in the factory!

Factory and Steel Tank Institute specifications are followed to assure complete internal and external corrosion protection. We offer complete interior/ exterior blast and finish coatings, including the Highland HighGuard™ UL-1746 approved protective coating with a 30-year warranty. Additionally, a full immersion, high temperature, acid resistant internal polyurethane lining is applied to assure years of continuous service and ease of cleaning.

Stainless steel or double-wall construction are available, as are aboveground rectangular tank designs with optional steam or electric heating systems. Made to order (MTO) designs are also available so that you can customize volumes, compartments, inlets, outlets, or baffles to satisfy specific code requirements.

General Arrangement - Double Basin - Most Popular and Versatile Design

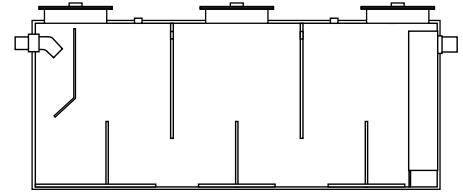


Manhole extensions are available as an option.

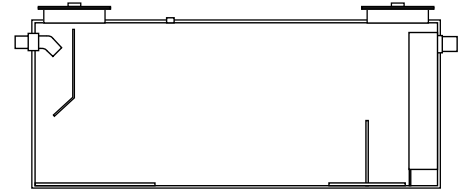
Options

- Stainless Steel Construction
- Double-wall Secondary Containment
- Field-Adjustable Manway Extensions
- EZ- Access™ Manway
- Traffic Duty Covers
- Steam or Electric Heating Systems
- Flanged Connections
- ACT-100-U® or STI-P3® Corrosion Protection Systems

Triple Basin - Approved Washington Suburban Sanitary Commission (WSSC)



Single Basin - Simple "Knock-Out" Design



Nominal Capacity (gal.)	Operating Grease Volume (gal. / lbs.)	Nominal Inside Dimensions		Inlet / Outlet** Diameter
		Diameter	Length	
* 240	63 / 483	3' 2"	4' 0"	4"
* 300	76 / 581	3' 2"	5' 0"	4"
550	137 / 1,041	3' 6"	7' 9"	4"
750	190 / 1,444	3' 6"	10' 9"	4"
1,000	247 / 1,875	4' 0"	10' 9"	6"
1,500	403 / 3,065	5' 4"	9' 0"	6"
2,000	514 / 3,906	5' 4"	12' 0"	8"
2,500	643 / 4,886	5' 4"	15' 0"	8"
3,000	771 / 5,862	5' 4"	18'-0"	8"
4,000	1,028 / 7,817	5' 4"	24' 0"	8"
5,000	1,245 / 9,465	6' 0"	23' 10"	10"
6,000	1,497 / 11,383	6' 0"	28' 8"	10"
7,000	1,847 / 14,040	7' 0"	24' 4"	10"
8,000	2,125 / 16,155	7' 0"	28' 0"	10"
9,000	2,349 / 17,858	8' 0"	24' 0"	12"
10,000	2,611 / 19,842	8' 0"	26' 8"	12"
12,000	3,133 / 23,811	8' 0"	32' 0"	12"
15,000	5,000 / 37,996	10' 0"	25' 6"	14"
20,000	5,413 / 41,140	10' 6"	31' 0"	16"
25,000	6,544 / 49,738	10' 6"	38' 9"	18"
30,000	7,580 / 57,606	10' 6"	46' 6"	20"
40,000	10,035 / 76,269	12' 0"	47' 6"	24"
50,000	12,570 / 95,538	12' 0"	59' 6"	24"

* Single-Basin ONLY. One (1) Manway. ** NPT for 4-6" Inlet and Outlet, 8" and larger will be Flanged Connections.

Double and Triple Basins conform to IAPMO - PS - 80- 2006.

Gravity Grease Interceptor

GGI sizing is based on thirty-minute retention time. Consult Lowe Engineering Department for alternate sizing methods.

Please visit us at www.highlandtank.com



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