00400MGI

Model MGI-400 Manual Grease Interceptor

**Guideline Specifications**

Provide and install \_\_\_\_\_\_Highland Tank Model MGI-400 Manual Grease Interceptor(s).

Interceptor shall be of welded carbon steel construction. Internal and external surfaces shall receive a commercial grit blast and be coated with heavy-duty polyurethane for corrosion resistance.

Interceptor shall be rated at 0 – 400 GPM intermittent flow.

Dimensions shall be 82” long, 56” wide 58” high. Static liquid holding capacity shall be 815 gallons and grease retention capacity shall be 800 pounds to comply with the code requirements of the facility. An interceptor of smaller volume is not permissible.

**Application**

The interceptor shall be designed for gravity separation of fats, oils, and grease (FOG) along with food scraps and solids from wastewater discharged from the kitchen’s food preparation areas.

Unit shall have flat bottom design for floor mounting, flush-with floor, or recessed installations. Standard installation requires connection to the drain line between the sewer and the floor drains, fixtures, and equipment discharging the grease-laden wastewater.

**Description**

Interceptor shall be rectangular with a fully removable and gasketed, vapor-tight, skid-proof Deck Plate Cover (s), with quick release latches, to allow for easy access for inspection and maintenance.

The interceptor shall be a pre-packaged, pre-engineered, ready to install unit consisting of:

An Inlet connection 6” inch (NPT) (plain end for “no hub” connection) (flange).

Inlet shall contain an Internal Flow Control Device to control surges and the rate of water flow to the interceptor so that the water flow does not exceed the rated flow.

A non-clogging stationary Under Flow Diffusion Baffle in the Inlet Chamber with discharge located below the normal liquid level. Under Flow Diffusion Baffle shall be angled and designed to:

 • Reduce horizontal velocity and flow turbulence.

 • Distribute the flow equally over the interceptors cross sectional area.

* Direct the flow in a serpentine path in order to enhance hydraulic characteristics and fully utilize all interceptor volume.
* Completely isolate all inlet turbulence from the oil separation/storage compartment to prevent re-suspension of separated oil.
* Promote the separation of settleable solids from wastewater.

A Sludge Baffle to contain settleable solids and trash.

A Separation/Storage Chamber.

An “Indirect Flow Transfer Baffle” at the outlet end of the interceptor designed to prevent short-circuiting by transferring flow back into the interceptor and allowing treated wastewater to indirectly exit from the bottom sides of baffle only. The baffle acts as an internal deep trap seal, allowing for water discharge from the bottom of the Separation/Storage Chamber only.

A removable gasketed, vapor-tight, skid-proof Deck Plate Cover with Quick Release Latches to facilitate flush-with-floor installations and for reinforced for light or heavy pedestrian traffic.

or

A removable gasketed, vapor-tight, stainless steel lid with quick release stainless steel clamps for floor mounting or partially recessed installations installation in a kitchen under a sink or elsewhere.

Cover to allow for total access to interceptor for observation and maintenance.

An Outlet connection 6” inch (NPT) (plain end for “no hub” connection) (flange).

2” NPT Fittings for Vent.

**Quality Assurance**

Submittals:

* Shop Drawings: shop drawings for Manual Grease Interceptor(s) shall show principal dimensions and location of all fittings.
* Instructions: provide three complete sets of installation, operation, and maintenance instructions with interceptor.

Warranty: The manufacturer shall warrant its products to be free from defects in material and workmanship for a period of one year from the date of shipment. The warranty shall be limited to repair or replacement of the defective part(s).

**Options**

* Removable Solids Screen Basket
* Interceptor Extensions
* Type 304 L stainless steel with 2-B finish. All joints and seams shall be TIG (tungsten inert gas) welded
* Exterior stainless steel polished to a #4 finish
* Aluminum
* Quick opening covers or hatch door
* Influent, effluent, or storage compartments

**Approved Manufacturer**

The Manual Grease Interceptor shall be manufactured by:

Highland Tank

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