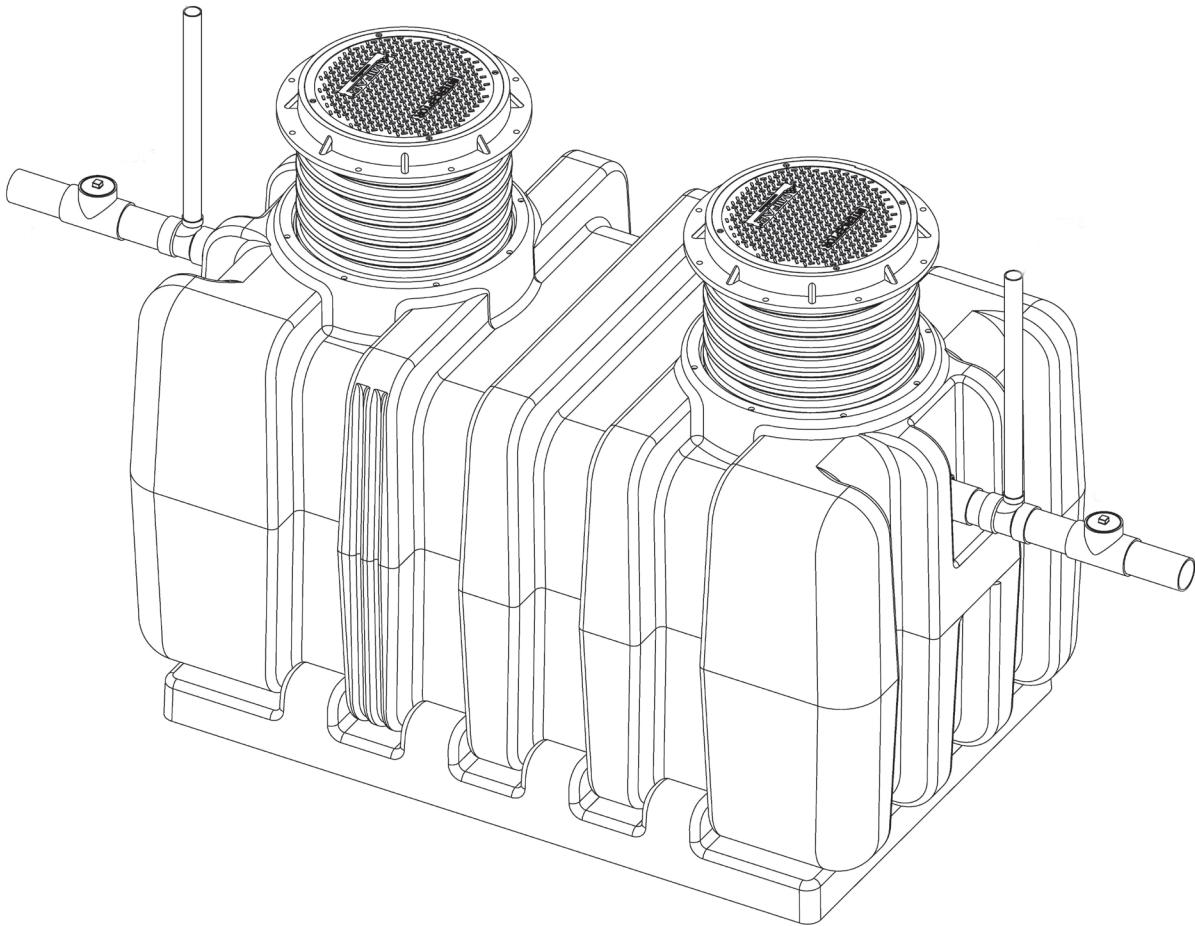




High Density Polyethylene (HDPE) Gravity Interceptors Installation & Operation Manual



(for SUPER-500 and
SUPER-1250 only)



QUICK START

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PREFACE W/S SUPERMAX® MODELS

Please read all instructions before installing your SUPERMAX®. Our Quick Start version does not contain all the details you may need. If additional information is required, please check our Appendix for more detailed information or call our Customer Service Representative at our toll free numbers: US 1-800-465-2736 or Canada 1-800-387-3880.



SUPER-500

Flow Rate I Grease Capacity
250 GPM / 1,916 lbs, 100 GPM / 3,492 lbs

Liquid Holding Capacity:
500 gallons

Dimensions w/o 6" base:
111" L x 64" W x 45" H



SUPER-750

Flow Rate I Grease Capacity
250 GPM / 2,875 lbs, 100 GPM / 5,002 lbs

Liquid Holding Capacity:
750 gallons

Dimensions w/o 6" base:
111" L x 64" W x 53.63" H



SUPER-1000

Flow Rate I Grease Capacity
250 GPM / 3,833 lbs, 100 GPM / 6,577 lbs

Liquid Holding Capacity:
1000 gallons

Dimensions w/o 6" base:
111" L x 64" W x 64" H



SUPER-1250

Flow Rate I Grease Capacity
250 GPM / 4,983 lbs, 100 GPM / 8,177 lbs

Liquid Holding Capacity:
1250 gallons

Dimensions w/o 6" base:
111" L x 64" W x 75" H

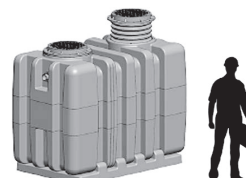


SUPER-1300

Flow Rate I Grease Capacity
250 GPM / 4,983 lbs, 100 GPM / 8,501 lbs

Liquid Holding Capacity:
1300 gallons

Dimensions w/o 6" base:
111" L x 64" W x 75" H



SUPER-1500

Flow Rate I Grease Capacity
250 GPM / 5,750 lbs, 100 GPM / 9,862 lbs

Liquid Holding Capacity:
1500 gallons

Dimensions w/o 6" base:
111" L x 64" W x 82.75" H



SUPER-2000

Flow Rate I Grease Capacity
250 GPM / 6,600 lbs, 100 GPM / 13,102 lbs

Liquid Holding Capacity:
2000 gallons

Dimensions w/o 6" base:
111" L x 64" W x 104.25" H

Available in 500 to 2000 Gallons
(Liquid Holding Capacity)

SUPER-O (Oil)

SUPER-OS (Oil/Sediment)

SUPER-DECON (Decontamination Tanks)

FEATURES



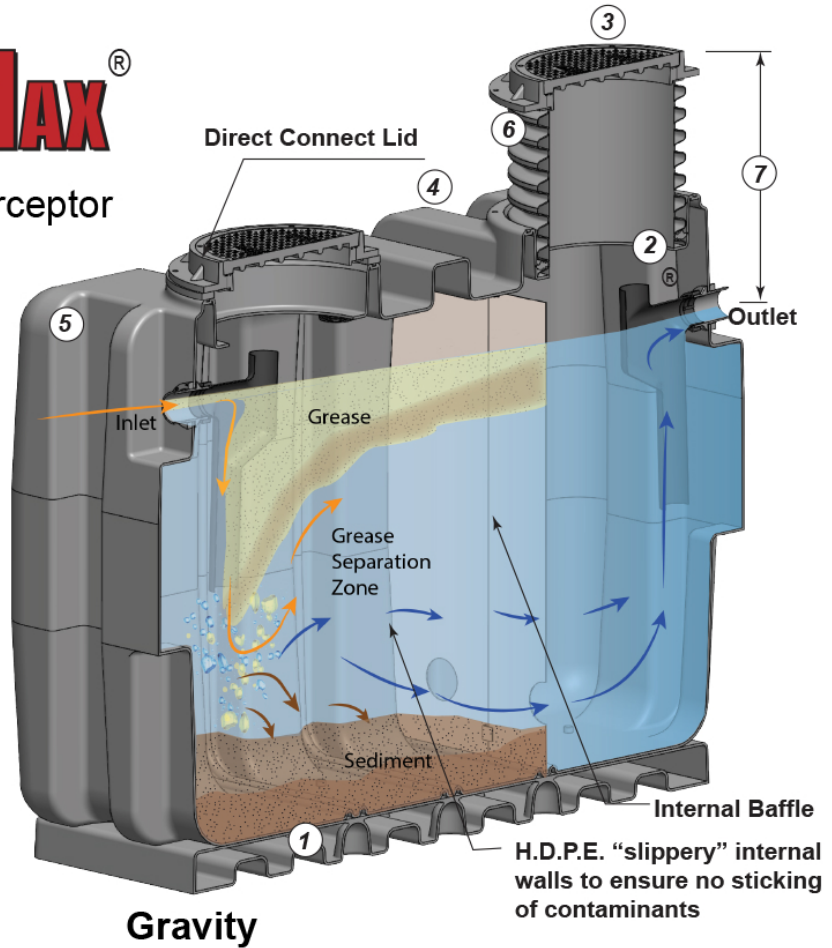
Extra Large H.D.P.E. Interceptor

Every SuperMax® ships with:

- 6" Base secured to underside of interceptor
- H-20 Load Rated Lid
- Two (2) direct connect gaskets and two sets of lid hardware
- 24" of extension collar



SUPER-500 ONLY



① Base for Body

Standard, 6" base secured to the underside of the interceptor.

② Sample Port Access

Sample port access is provided standard. Samples of discharge water taken from top opening of outlet piping.

③ H-20 Load Rated Lid

20,000 Lb. ASSHTO H-20 load rated steel encased composite lids and collar are standard to withstand heavy loads.

④ Structural Integrity

Ribbed body design provides extra structural integrity for in ground installations. Body is rotationally molded High Density Polypropylene with a 3/8" uniform wall thickness providing a strong but lightweight body. This allows installation without need of a backhoe or crane.

⑤ H.D.P.E. Material

High Density Polypropylene (H.D.P.E.), 3/8" rotationally molded material is used in every SuperMax Grease and Oil Interceptor. H.D.P.E. is less brittle than fiberglass and less likely to crack during installation. H.D.P.E. interceptors have NO environmental impact. Both fiberglass and concrete interceptors have a negative impact on our environment.

⑥ Extensions Key Feature

With MIFAB's patented extension system, every lid ships with a 24" X 24" piece of ADS corrugated pipe which provides the installer with up to a 37.25" "C" dimension. If a greater "C" dimension is required, the contractor has the option to purchase it from MIFAB or to buy a length of ADS pipe from their local waterworks wholesaler in order to complete the installation immediately. Flexible extensions make for easier installation where grade may not be level.

⑦ Extra Rough-in Dimension

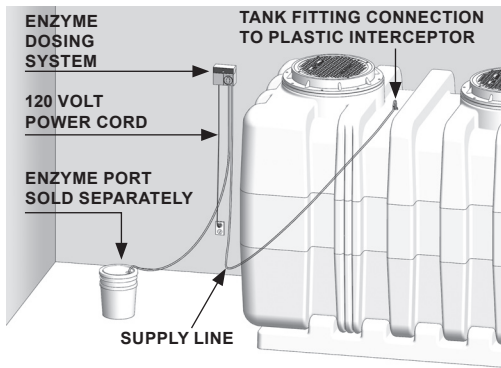
Standard "C" dimension is 37.25" which can be field adjusted down to 20.25" resulting in contractors not having



**LIFETIME WARRANTY
- NO RUSTING!**

Note: See Appendix for blank Warranty Registration Card

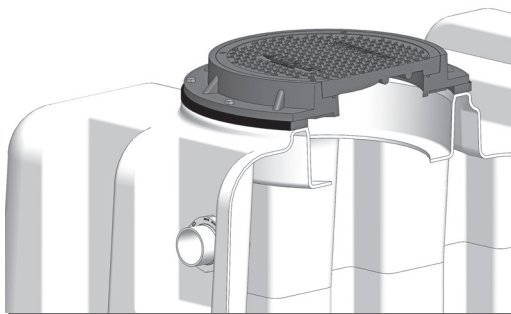
OPTIONS



ENZYME DOSING PUMP SYSTEM – SUFFIX -DS

The purpose of the enzyme dosing pump is to release grease and bacteria eating enzymes into the grease interceptor to consume the accumulated grease. The enzyme dosing pump can be ordered with any MIFAB® grease interceptor. It is ideal for grease interceptors that are located in high volume kitchens.

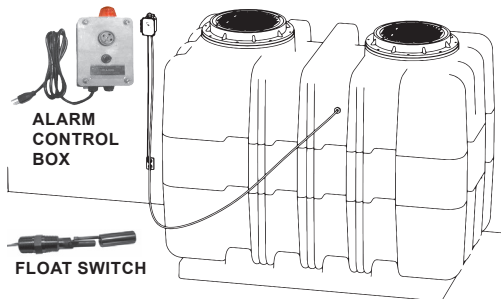
The enzyme dosing pump system includes a 120 volt automatic dosing pump with a programmable 24 hour timer and dosage run time. The system also includes 15' of poly tubing.



DIRECT CONNECT LID - SUFFIX -DCL

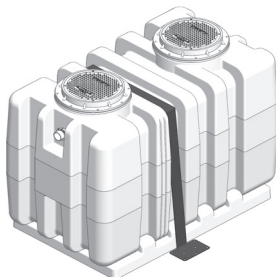
For above ground installations, the standard lid design is often not needed. With the -DCL option, the lid can be bolted to the top of the SUPERMAX®. A gasket is supplied to install between the top of the interceptor and the underside of the lid.

The direct connect gasket (part # SUPER-PCG) and hardware (part # HS-26) are shipped standard with every SUPERMAX® interceptor (two of each).



HIGH LEVEL ALARM The purpose of the High Level Alarm is to monitor and send an audible and visual alarm when the interceptor's grease or oil capacity is approximately 75% full. (Specify suffix -HLA) High level alarm systems can be installed on any MIFAB® grease or oil interceptors to allow the owner to monitor grease and oil levels. This permits the interceptor to be maintained when required.

The -HLA option includes an alarm control box that is weatherproof rated NEMA 4/4X, 6' 120VAC Power Cord, 360° viewable alarm light, 85 dB @ 10' solid tone alarm and a silence and test button that is to be mounted to the nearest structure. It also includes a float switch that is mounted inside the interceptor for oil or grease level detection and is connected to the alarm control box. Note that the the alarm control box and float switch are not installed at the MIFAB® factory. They need to be installed on site.



ANCHOR KIT

The Anchor Kit is used to secure the interceptor to a slab or to prevent buoyancy in a high water table. (Suffix -AK)

Cleaning a full grease interceptor is a dirty and smelly job. MIFAB® offers an efficient alternative to do this – the MIFAB® Remote Pump Out Options – RPO and -POK. This ensures that a dirty, greasy hose is not dragged through the inside of the restaurant to connect to the grease interceptor in order to pump it out. Instead, the pump out hose remains outside of the restaurant connected to the grooved threaded coupling on the outside wall. See Appendix 9, pages 25-26 of this manual.

INTERCEPTOR - ABOVE GRADE

The SUPERMAX® gravity interceptor may be installed as a stand alone unit, or in any number of different combinations to properly service the application. Different combinations are shown in Appendix 7, on page 23.

1) PLACEMENT - All SUPERMAX® interceptors can be installed above grade. The HOPE ribbed construction allows these interceptors to be placed on an engineered approved, load compliant and level surface. Under normal use, SUPERMAX® interceptors will require no additional support to maintain full functionality. Seismic ratings and needs should be determined by a design engineer and based on established codes. The interceptor should be placed in a visible and easily accessible area for maintenance, cleaning, and inspection. Allowing space for the service provider to properly clean the vessel is a key consideration.

2) SET IN PLACE - MIFAB® Interceptors should be set in place by the installer. The installer should ensure the pad/site is level and load rate compliant. The interceptor should be plumbed as instructed below in accordance with all required codes.

3) FLOW CONTROLS - Each MIFAB® SUPERMAX® interceptor is supplied with a factory sized internal flow control for each size unit available. The flow control is an important component to ensure the proper operation and efficiency of the unit. Installation is accomplished using properly sized "flexible" couplings for above ground indoor installation (or Extra Heavy Duty No Hub shielded couplings for any outdoor installation.)

NOTE: For the SUPER-500 model interceptors are supplied with stainless steel calibrated orifice plate (internal flow control). An external, vented, flow control fitting is required to be installed before the inlet of the grease interceptor to meet the P.D.I. G-101 for the SUPER-500 model.

4) INLET/OUTLET PIPING - The inlet and outlet piping connections require no hub pipe couplings (see MIFAB®'s MI-HUB Series of no hub couplings). Keep outlet piping as straight as possible. MIFAB® recommends installation of SUPERMAX® Interceptors and Solids interceptors in accordance with all applicable laws, regulations and codes. Use only "sweep" connections.

Do not install a "P" trap on the outlet connection of system as the system already has an internal gas trap.

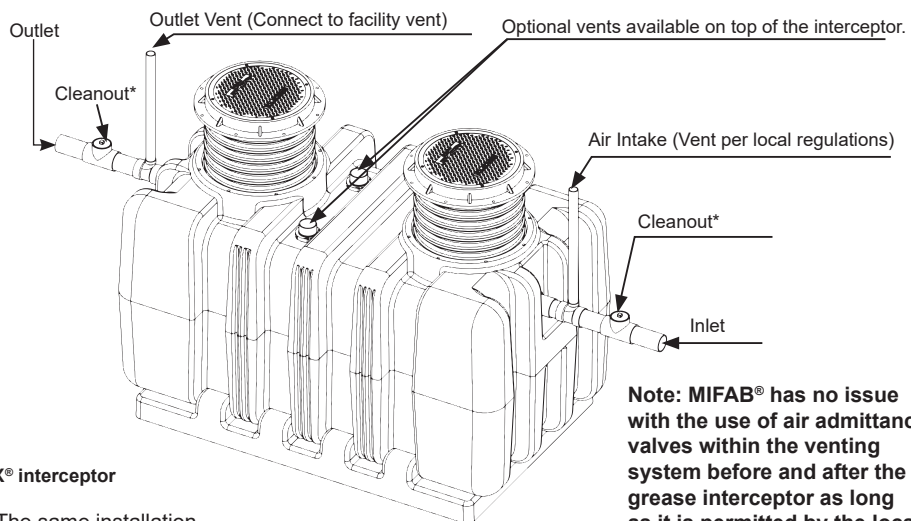
5) MULTIPLE UNITS - When combining more than one grease interceptor or solids interceptor in series or parallel, always provide a 1 inch fall or change in grade between units.

6) PIPE SUPPORTS - Pipe supports should be located every 16 inches on all vertical and horizontal piping. Allow for expansion as per local and national code.

7) VENTING - Venting of the SUPERMAX® gravity interceptor is recommended by MIFAB® and required for indoor installations. Vent the SUPERMAX® grease interceptor on the inlet side. It is also recommended to vent the outlet side of the SUPERMAX® grease interceptor right after the outlet. An outlet vent or approved air admittance valve of at least 1/2 the diameter of the interceptor's outlet connection must be installed as close as possible to the SUPERMAX® outlet to prevent possible siphonage problems. The vent on the outlet piping is to be installed in accordance with all applicable laws, regulations and codes. Failure to provide a vent for the interceptor voids MIFAB®'s warranty for the system.



Part number for the 4" vent connection is SUPER-PF4



Note: MIFAB® has no issue with the use of air admittance valves within the venting system before and after the grease interceptor as long as it is permitted by the local authority having jurisdiction.

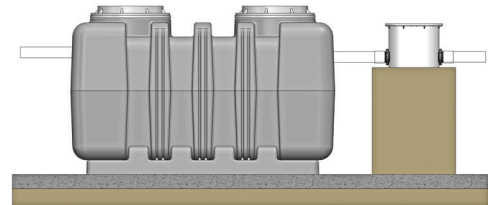
Typical piping layout for SUPERMAX® interceptor

Note: SUPER-1000 is illustrated. The same installation detail applies to the other SUPERMAX® interceptors.

INTERCEPTOR - ABOVE GRADE

8) SAMPLE PORT - Above ground installation. Typical installation details.

NOTE: Specialty above ground parking garage installation details may be found in Appendix 8, Page 24 of this manual.

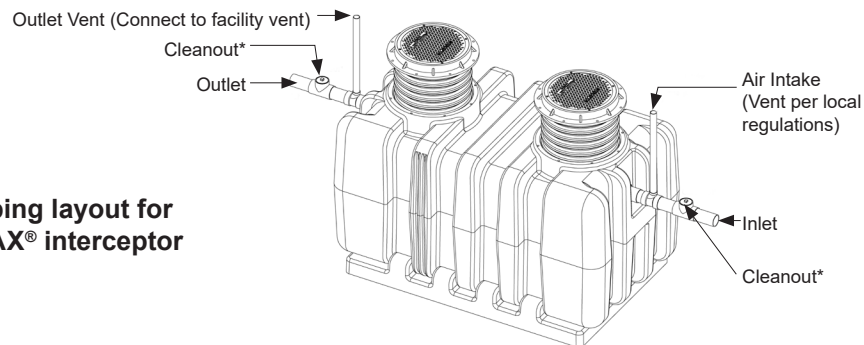


SUPER-1000-SP-AG - Above Ground

9) SUPERMAX® CONFIGURATIONS/TOOLS/CONNECTIONS

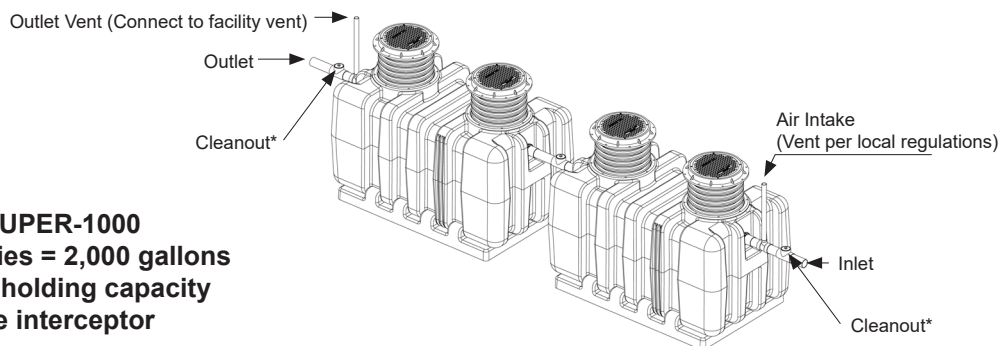
Following are two typical SUPERMAX® typical interceptor layouts, with materials and recommended tools required for installation.

Typical piping layout for SUPERMAX® interceptor



Needed Connections		Recommended Tools	
Dual Cleanouts 4"	2	Screw Driver	Pliers
Union 4" w/ 2" outlet	1	Torque Wrench	Tape Measure
Extra Heavy No Hub Couplings 4"	4	Hand Saw	Leveling Device
Extra Heavy No Hub Couplings 2"	1	PVC Cutter	Marker
4" PVC Pipe	Per Design	PVC Cement	Shovel
2" PVC Pipe	Per Design	PVC Primer	

Two SUPER-1000 in Series = 2,000 gallons liquid holding capacity grease interceptor



Needed Connections		Recommended Tools	
Dual Cleanouts 4"	3	Screw Driver	Pliers
Union 4" w/ 2" outlet	1	Torque Wrench	Tape Measure
Extra Heavy No Hub Couplings 4"	6	Hand Saw	Leveling Device
Extra Heavy No Hub Couplings 2"	1	PVC Cutter	Marker
4" PVC Pipe	Per Design	PVC Cement	Shovel
2" PVC Pipe	Per Design	PVC Primer	

Note: Drawings for general installation reference only and not for a specially identified project. SUPERMAX® should be installed in Compliance with all applicable laws, regulations, and codes. Installation by a qualified Plumber or Contractor is highly recommended.

10) LOCAL CODES - All local codes should be followed and at no time does MIFAB® require or recommend any installation which does not meet local, state or industry code requirements or standards.

INTERCEPTOR - BELOW GRADE

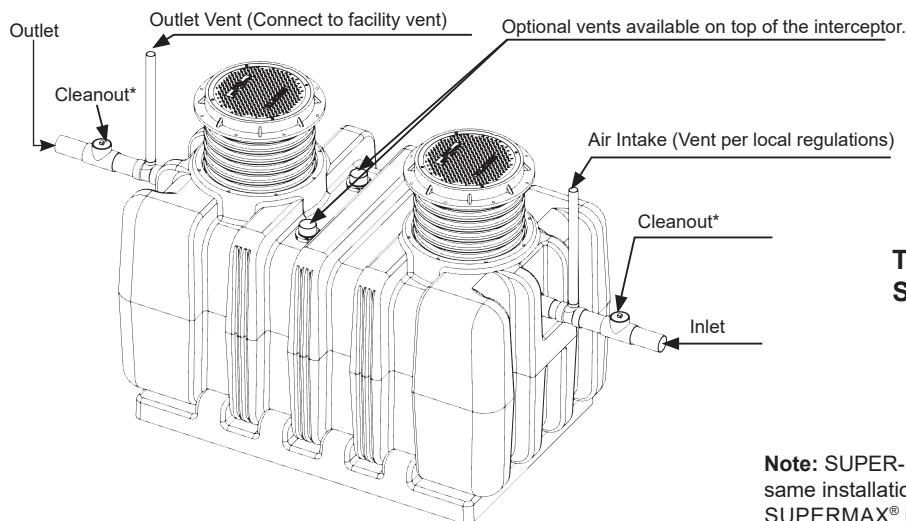
The SUPERMAX® gravity interceptor may be installed as a stand alone unit, or in any number of different combinations to properly service the application. Different combinations are shown in Appendix 7, on page 23.

- 1) **FLOW CONTROLS** - Each MIFAB® SUPERMAX® interceptor is supplied with a factory sized internal flow control for each size unit. available. The flow control is an important component to ensure the proper operation and efficiency of the unit. Installation is accomplished using properly sized Extra Heavy Duty No Hub shielded couplings for any outdoor installation.
NOTE: For the SUPER-500 model, interceptors are supplied with stainless steel calibrated orifice plate (internal flow control). An external, vented, flow control fitting is required to be installed before the inlet of the grease interceptor to meet the P.D.I. G-101 for the SUPER-500 model.
- 2) **INLET/OUTLET PIPING** - The inlet and outlet piping connections require no hub pipe couplings (see MIFAB®'s MI-HUB Series of no hub couplings). Keep outlet piping as straight as possible. MIFAB® recommends installation of SUPERMAX® interceptors and solids interceptors in accordance with all applicable laws, regulations and codes. Use only "sweep" connections. Do not install a "P" trap on the outlet connection of system as the system already has an internal gas trap.
- 3) **MULTIPLE UNITS** - When combining more than one grease interceptor or solids interceptor in series or parallel, always provide a 1 inch fall or change in grade between units.
- 4) **VENTING** - Venting of the SUPERMAX® gravity interceptor is recommended by MIFAB® and required for indoor installations. Vent the SUPERMAX® grease interceptor on the inlet side. It is also recommended to vent the outlet side of the SUPERMAX® grease interceptor right after the outlet. An outlet vent or approved air admittance valve of at least 1/2 the diameter of the interceptor's outlet connection must be installed as close as possible to the SUPERMAX® outlet to prevent possible siphonage problems. The vent on the outlet piping is to be installed in accordance with all applicable laws, regulations and codes. Failure to provide venting for the interceptor voids MIFAB®'s warranty for the system.

Venting of the SUPERMAX® gravity interceptor is recommended by MIFAB® and required for indoor installations.

Vent the SUPERMAX® grease interceptor on the inlet side. It is also recommended to vent the outlet side of the SUPERMAX® grease interceptor right after the outlet.

Note: MIFAB® has no issue with the use of air admittance valves within the venting system before and after the grease interceptor as long as it is permitted by the local authority having jurisdiction.



Typical piping layout for
SUPERMAX® interceptor

Note: SUPER-1000 is illustrated. The same installation detail applies to the other SUPERMAX® interceptors.

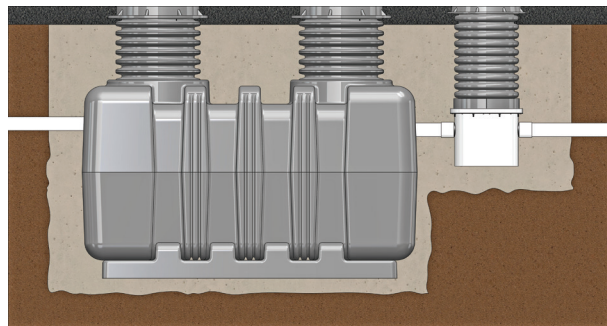


Part number for the 4" vent
connection is SUPER-PF4

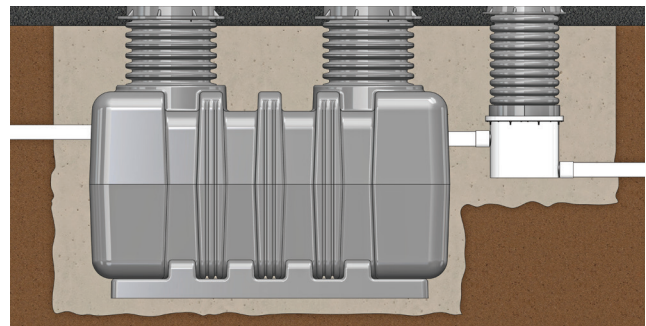
INTERCEPTOR - BELOW GRADE

- 5) **SAMPLE PORT INSTALLATION** - SUPERMAX® interceptors come with 24 inches of extension collar. In cases where less than 24 inches is needed, the collar is designed to be field cut to the desired height. Measure and mark the required height on the extension collar then cut to the needed height with a Saws All (see page 12 of this manual). If more than 24 inches is required, additional collar length can be acquired from a local supply house. Simply purchase the required amount of 24 inch diameter ABS pipe and insert into the SUPERMAX®. The maximum recommended depth of the collars should be no more than 72".

NOTE: Sample Port must be placed on a suitable base of compacted soil or undisturbed earth in traffic condition.



Sample Port - SUPER-1000-SP



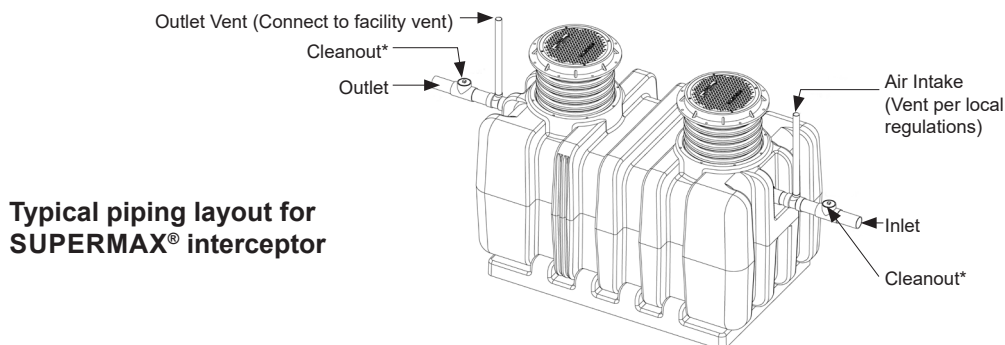
Sample Port - SUPER-1000-SP-OF

6) RECOMMENDED EXCAVATION, BACKFILLING, AND FINISHING

- Install the interceptor(s) as close as practical to the fixtures being served.
- The excavation must be a minimum of 18" greater on all sides of the tank.
- The depth of the excavation must be greater than 12" on the bottom of the interceptor.
- Fill the interceptor with water prior to backfilling in water to prevent the interceptor from floating.
- Fully install the double wall corrugated pipe and lid prior to backfilling.
- Concrete or finishing material requirements are to be determined by the specifying engineer.
- Encase the interceptor in well-packed 3/4" rock, or sand. Do not compact backfill around interceptor.
- To prevent flood out, the Anchor Kit is recommended for installations in high water table conditions. This is to be determined by the specifying engineer.

7) SUPERMAX® CONFIGURATIONS/TOOLS/CONNECTIONS

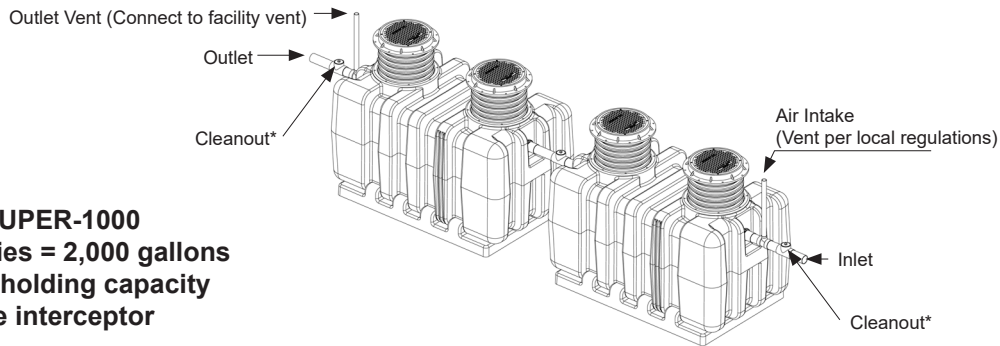
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Needed Connections		Recommended Tools	
Dual Cleanouts 4"	2	Screw Driver	Pliers
Union 4" w/ 2" outlet	1	Torque Wrench	Tape Measure
Extra Heavy No Hub Couplings 4"	4	Hand Saw	Leveling Device
Extra Heavy No Hub Couplings 2"	1	PVC Cutter	Marker
4" PVC Pipe	Per Design	PVC Cement	Shovel
2" PVC Pipe	Per Design	PVC Primer	

INTERCEPTOR - BELOW GRADE

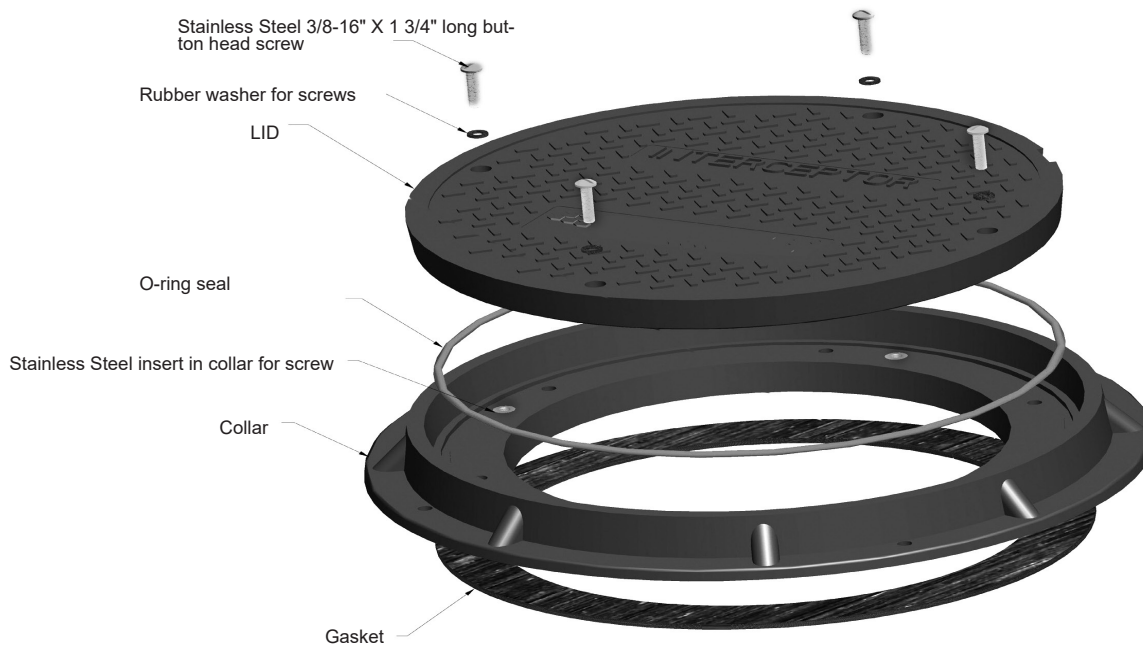
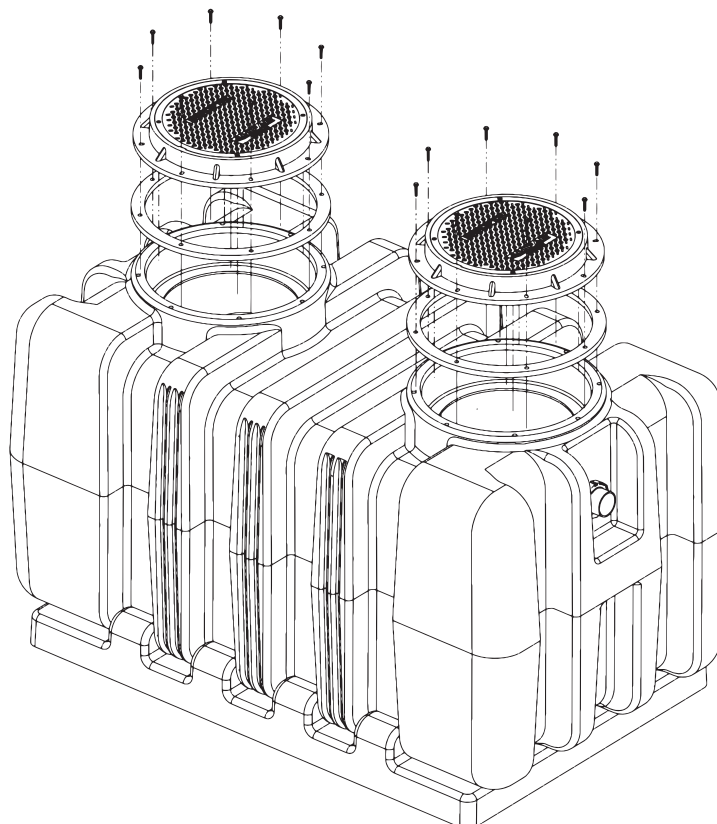
**Two SUPER-1000
in Series = 2,000 gallons
liquid holding capacity
grease interceptor**



Needed Connections		Recommended Tools	
Dual Cleanouts 4"	3	Screw Driver	Pliers
Union 4" w/ 2" outlet	1	Torque Wrench	Tape Measure
Extra Heavy No Hub Couplings 4"	6	Hand Saw	Leveling Device
Extra Heavy No Hub Couplings 2"	1	PVC Cutter	Marker
4" PVC Pipe	Per Design	PVC Cement	Shovel
2" PVC Pipe	Per Design	PVC Primer	

Note: Drawings for general installation reference only and not for a specially identified project. SUPERMAX® should be installed in Compliance with all applicable laws, regulations, and codes. Installation by a qualified Plumber or Contractor is highly recommended.

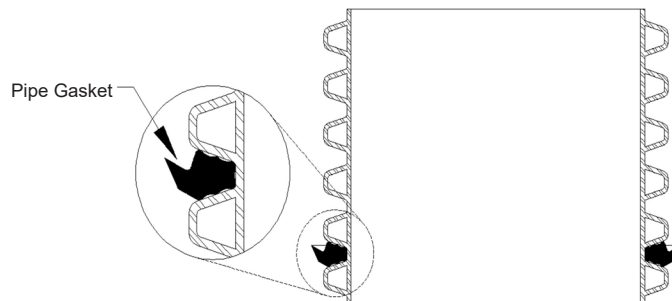
- 8) **LOCAL CODES** - All local codes should be followed and at no time does MIFAB® require or recommend any installation which does not meeting local, state or industry code requirements or standards.

DIRECT CONNECT LID

SUPERMAX®


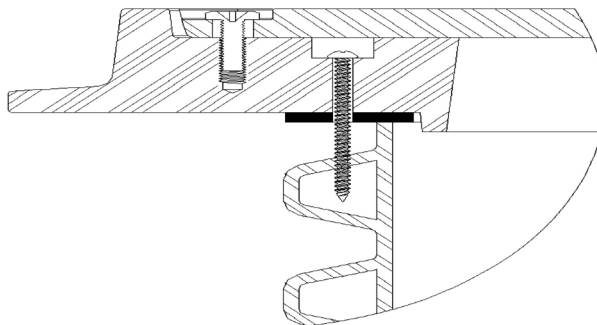
EXTENSION COLLAR

- 1) Set the SUPERMAX® interceptor height to grade by installing the 24" diameter corrugated pipe onto the top opening(s) of the body, then insert the lid on top to measure and adjust the finished height from the top to grade. If less extension is needed, measure the required dimension, mark the extension and cut to fit with a Saw. The extension system is ADS pipe and is designed to be field cut as needed. If a longer extension is required to meet grade, new ADS pipe can be purchased and cut to length in order to equal grade.
- 2) Install the Pipe Gasket onto the bottom of the pipe as shown. Then firmly press the 24" diameter pipe into the top opening(s) of the interceptor. It will bottom out at the pipe stop. The Gasket is designed to fit tightly around the extension collar. Prying the gasket into place with a pry tool can save time and make this process easier.
- 3) Insert the extension collar and pipe gasket onto the opening of the SUPERMAX®. Press firmly until the extension is seated inside provided recessed channel. Both the SUPERMAX® are designed to fit tightly, and installation can be made easier by wetting the receiving area with mild soapy water. This will reduce the friction and allow the extension to slide more easily into place.
- 4) Remove the cover from the lid assembly and this will expose predrilled screw holes. Affix the lid gasket with the self adhesive onto the underside of the collar. Place lid assembly onto the top of the corrugated pipe. Connect the lid assembly collar to the pipe with the 6 self tapping screws into the countersunk holes. Replace lid back onto the lid assembly collar.

To view an ADA extension preparation and installation video, go to:



Extension Collar and Gasket Assembly



Lid and Extension Collar Installation

MAINTENANCE

- 1) A well maintained interceptor is important to keeping efficiency high. If the interceptor is not kept to a strict cleaning schedule, it will build up with grease and eventually allow the grease to pass directly into the municipal water system. A cleaning schedule is directly affected by the volume of FOG present and introduced into the interceptor, as well as the type of menu. For example a Fried Chicken type restaurant may have higher FOG generation than a sandwich shop.
- 2) The grease interceptor should be checked after the first few days of operation. Note the buildup of grease within it. Based on the amount of grease collected, a regular cleaning schedule should be implemented to ensure that the grease buildup does not get to the point of allowing the grease laden water to pass directly through the interceptor.
- 3) Routine service including pumping is a requirement for to operate properly. To determine when to pump and clean the SUPERMAX® may be done by simple measurement.
- 4) Measuring collected solids in any interception system is a more difficult task than with the FOG measurement. Because most solids are organic in nature there is a tendency for these solids to absorb water becoming more bulky but having very little actual mass. A simple solution is to have the Solids Interceptor pumped when the Grease Interceptor is pumped. The likelihood that they will both require service at the same time is very high. Servicing the Solids Interceptor is an integral part of maintaining system efficacy.

Following the simple steps below will help make cleaning easier:

- 1) Remove the bolt(s) from the interceptor lid(s) taking care to carefully locate the bolts together and out of the way.
- 2) Remove the lid(s) (Take caution, the lid(s) can be heavy and slippery)
- 3) SUPERMAX® Interceptors require cleaning by a pumping service.
- 4) Check to make sure that the gasket material is still in good condition. No rips or missing pieces and that it is still in the proper position.
- 5) Reinstall the lid(s) and bolt(s) by reversing step #1.

DETAILED OVERVIEW

MIFAB®'s grease, oil and solids interceptors are manufactured using materials such as High Density Polyethylene (HDPE), stainless steel and 10 gauge hot rolled steel that is welded together and coated with an electrostatically applied baked epoxy finish.

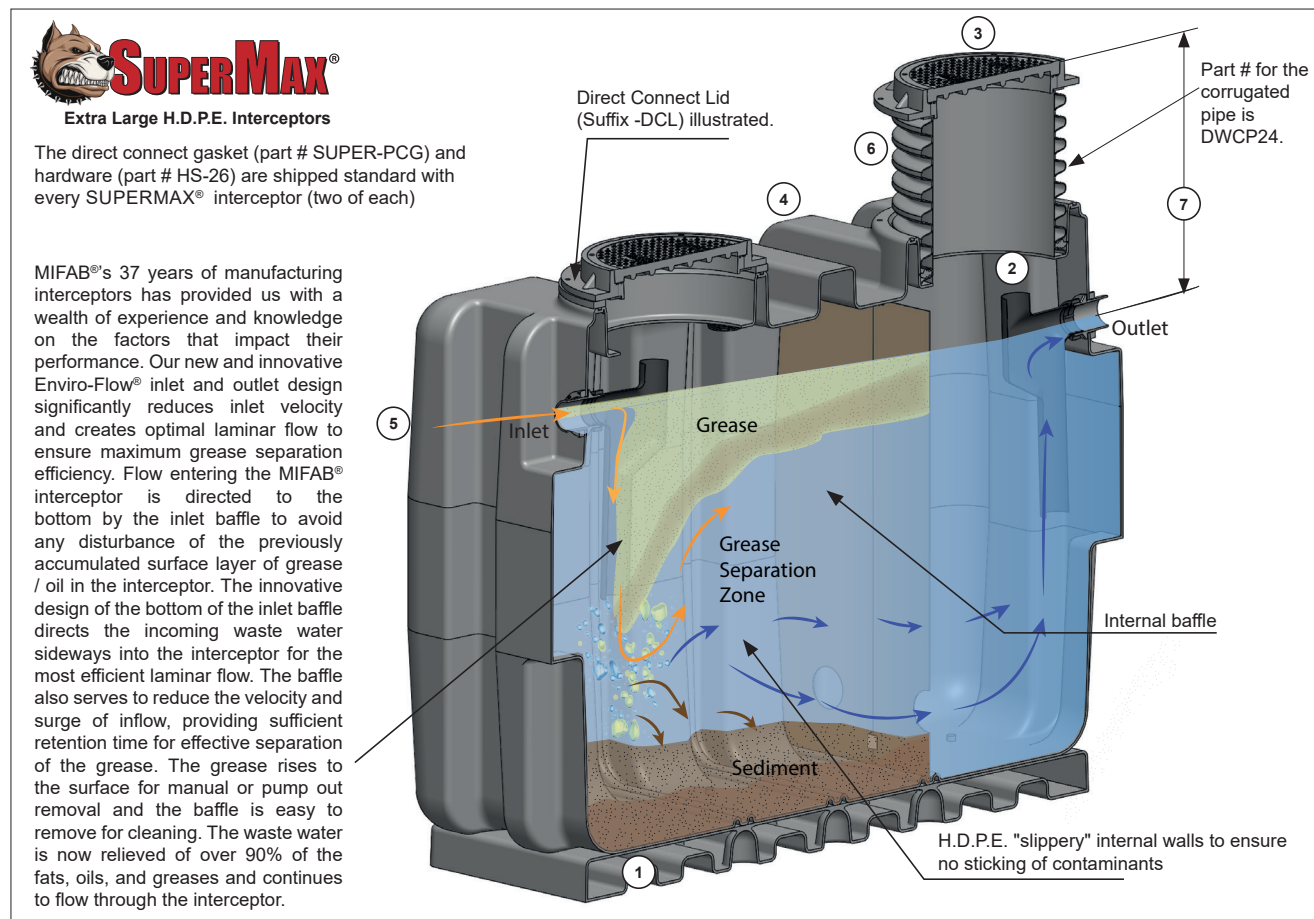
Why use this variety of materials? Studies have shown that interceptors made with cast iron last on average of 5 years before need replacement, while concrete interceptors have an effective lifespan of around 10 years.

The cover sealing gasket is manufactured with low durometer closed-cell neoprene with self-adhesive backing. The gasket is custom fitted to the interceptor body top rim ledge where it is an integral part of the body. Because of the gasket's thickness and density, it provides an ideal sealing environment for the lid. All of MIFAB®'s interceptors are supplied with the same gasket. All MIFAB® grease interceptors are supplied with a baffle system en-gineered to improve the grease/oil separation process. The baffle system is strategically located to direct inflow for maximum efficiency of the interceptor.

Flow entering the MIFAB® interceptor is directed to the bottom by the baffle to avoid any disturbance of the pre-viously accumulated surface layer of grease/oil in the device. The baffle also serves to reduce the velocity and surge of inflow, providing sufficient retention time for effective separation of the grease. The grease rises to the surface for manual or draw-off removal and the baffle is easy to remove for cleaning. The waste water is now relieved of over 90% of the fats, oils and greases and continues to flow through the interceptor into the drainage system.

Gravity Grease Interceptor (GGI) – a GGI is designed to have a minimum of 350 US gallons of liquid holding capacity. Many jurisdictions, especially those following the Uniform Plumbing Code (U.P.C.), will not allow a GGI smaller than 500 US gallons of liquid holding capacity. MIFAB® offers GGI up to 1,500 US gallons of liquid holding capacity. They do not require the use of a flow control fitting or internal flow control. The separation of FOG is based on the capacity and retention time within the interceptor. They are tested and certified to a Design Standard. The flow rate is calculated to determine the highest possible peak flow coming from the drainage fixtures and equipment in the food preparation area and multiplied by a retention time (typically 30 minutes determined by the Plumbing Code) to achieve the liquid holding capacity (in gallons) required for the grease interceptor. MIFAB®'s SUPERMAX® gravity grease interceptors are tested and certified to the IAPMO Z1001-2016 Design Standard and listed with IAPMO. Many local municipalities require that GGI be pumped out once the combined volume of retained FOG and food solids accumulates to 25% of the liquid volume of the interceptor. This is known as the "25% Rule."

SUPERMAX® interceptors are PDI (for SUPER-500 and SUPER-1250), ASME, IAPMO and CSA certified and made in the USA.



SUPERMAX® are tested and certified to ASME, CSA and IAPMO standards. SUPER-500 and SUPER-1250 also certified to PDI standards. All SUPERMAX® models are made in the USA.

DETAILED OVERVIEW

1. Base for Body

A base is always included with the SUPERMAX® gravity interceptors. This is an expensive option from others. The base provides a flat surface so that the interceptor can easily be installed above ground in applications like parking lot spaces. The base is 6" high and is always secured to the underside of the interceptor.

2. Sample Port Access

Sample port access is provided standard in our interceptors. Simply remove the lid to gain access to the top opening of the internal inlet and outlet piping. A sample of the water discharging from the interceptor can be taken from the top opening of the outlet piping (deep seal trap).

3. H-20 Load Rated Lid

Standard, 20,000 Lb. AASHTO H-20 load rated steel encased composite, gasketed lids and collar are standard to withstand heavy loads

4. Structural Integrity

Ribbed body design provides extra structural integrity for in ground installations. The body is manufactured in the USA out of seamless, rotationally molded High Density Polyethylene with a 3/8" uniform wall thickness. The body is strong but lightweight, allowing it to be installed without the need of a backhoe or crane. All SUPERMAX® gravity interceptors can withstand a temperature of up to and including 180 degrees Fahrenheit.

5. H.D.P.E. Material

MIFAB's SUPERMAX® gravity grease and oil interceptors are made with 3/8" thick rotationally molded H.D.P.E. material. H.D.P.E. is less brittle than fiberglass and less likely to crack during installation. The ribbed body design provides for extra rigidity and is less likely to crack or break when installed underground and subject to earth pressures. H.D.P.E. has resistance to a greater amount of chemicals vs. fiberglass. Fiberglass is also hard and stiff and is subject to cracking. A rotationally molded H.D.P.E. interceptor, is simply tougher and has much greater impact resistance vs. fiberglass.

Fiberglass interceptors have a negative environmental impact because they are made with VOC's - (Volatile Organic Compounds). Facilities that produce fiberglass interceptors have a negative impact on the environment because of VOCs they put into the air. Rotationally molded H.D.P.E. interceptors have NO environmental impact.

6. Extensions

With MIFAB's patented extension system every lid ships with an 24" x 24" piece of ADS corrugated pipe which provides the installer with up to a 37.25" "C" dimension. If a greater "C" dimension is required, the contractor has the option to purchase an extension from MIFAB® or to buy a length of ADS pipe from their local waterworks wholesaler in order to complete the installation immediately. This also means that the cost of the MIFAB® extension (when ordered from a local waterworks wholesaler will be significantly less expensive that buying the same height extension system from others). In addition, extensions from others are only available from that specific manufacturer – resulting in delays and time for production and shipment to the contractor. Flexible extensions make for easier installation where grade may be unlevel.



Key
Feature

7. Extra Rough-in Dimension

The standard "C" dimension on SUPERMAX® models is 37.25" and can be field adjusted by the contractor down to 20.25". The standard "C" dimension from others is typically 18". This means that contractors will not have to buy extensions as often - resulting in savings.

Approvals

MIFAB's SUPERMAX® gravity grease interceptors are tested and certified to the ANSI Z1001-2016, ASME A112.14.3, CSA B481 Standards and listed with IAPMO. The SUPER-500 is also tested and certified to the P.D.I. G-101 Standard.



Options and Accessories

MIFAB's 37 years of experience with grease interceptors provides us with a superior knowledge of options and accessories often required with grease interceptors. We can expertly provide any of the following options: dosing pump, enzyme port, high level alarm, anchor kit, remote pump out, multiple inlet and outlet ports, sediment bucket, coalescing pack and, threaded connections.

Lifetime Warranty. Made in the USA

MIFAB® offers a limited lifetime warranty on all of our plastic grease and oil interceptors. MIFAB's plastic grease and oil interceptors are made in the United States of America and meet the requirements of the Buy American Act.

Multiple Inlet/Outlet Options

MIFAB's interceptors are manufactured with flat spaces on each side for two optional side inlets or outlets on both sides of the interceptor. This allows for straight through or side inlet/outlet pipe connections. (Specify required suffix for desired optional inlet/outlet.)

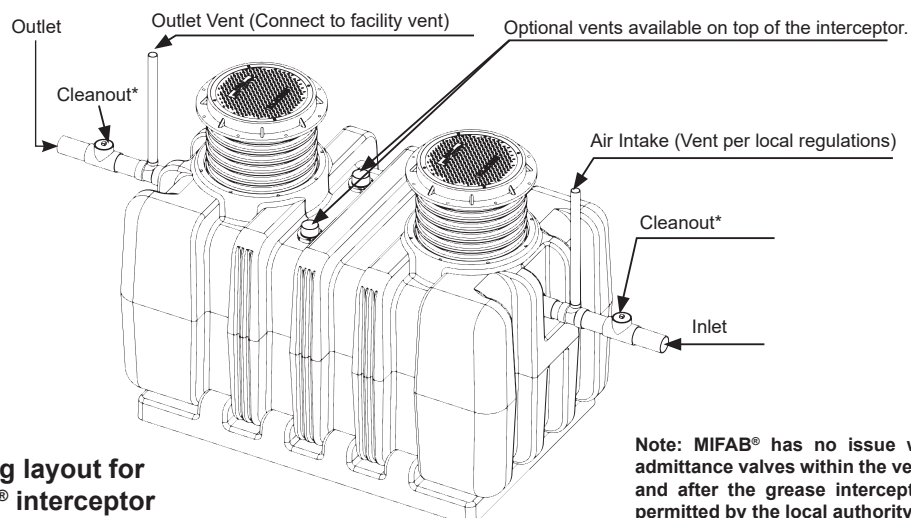
DETAILED OVERVIEW

Description of Operation: There are a few factors critical in the operation of a grease interceptor, which are: Design, Sizing, Proper installation and maintenance.

Design: MIFAB® interceptors are manufactured with high inlets. This allows the incoming flow to completely drain out of the inlet lines, which reduces the chance of the lines being clogged with grease build up. MIFAB® interceptors are also manufactured with a removable vertical baffle plate. The baffle plate is designed to slow the incoming flow and redirect it to the bottom of the interceptor allowing for the longest retention time possible.

MIFAB® interceptors are manufactured as well with an integral deep seal trap, which has a built in air by pass relief. The trap is also built with a cleanout access point, so that if a blockage occurs downstream; it can be easily removed. To prevent odor from accumulated grease in the interceptor from coming back up through the fixture drain, a trap should be installed between the interceptor and the fixture. Please consult your local codes.

Sizing: For proper sizing of the grease interceptor please see MIFAB®'s Price Book. or visit our FREE website: www.sizemyinterceptor.com.



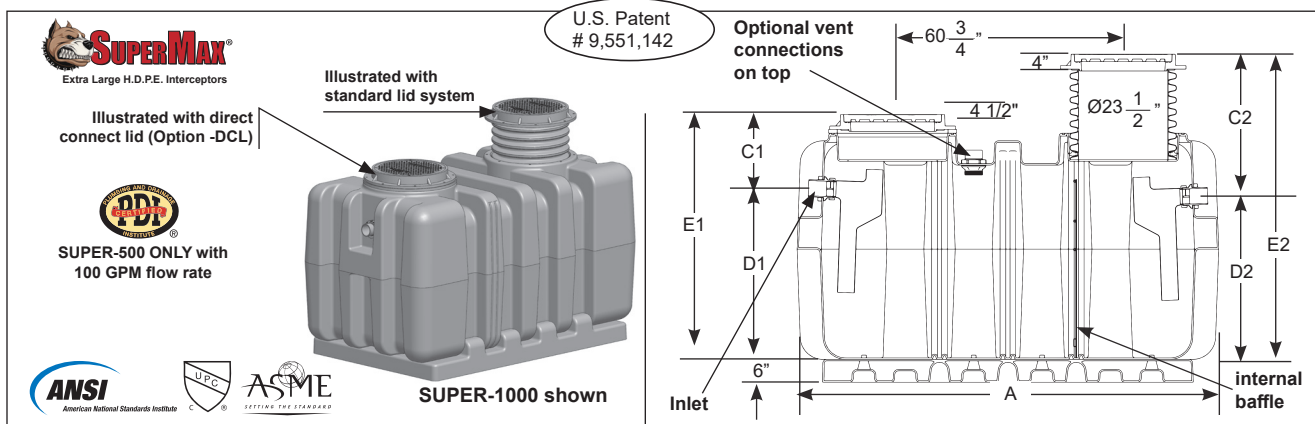
**Typical piping layout for
SUPERMAX® interceptor**

Note: MIFAB® has no issue with the use of air admittance valves within the venting system before and after the grease interceptor as long as it is permitted by the local authority having jurisdiction.

SPECIFICATION SHEET

Specification: MIFAB® SUPER-_____ gravity grease interceptor with _____ U.S. gallons of liquid holding capacity has a limited lifetime warranty and is made in the U.S.A. out of seamless, rotationally molded High Density Polyethylene with 3/8" uniform wall thickness. Interceptor is designed for above or below ground installation and includes an adjustable lid system, sample port access, internal baffle, deep seal trap covered by lid, internal air relief by-pass, stainless steel calibrated orifice plate (internal flow control), base for support and floor level installation and 4" no hub inlet and outlet connections. Steel encased composite lids provide a water / gas tight seal and have a minimum of 20,000 LB. load capacity - in accordance with the loading requirements of AASHTO H20. The high density polyethylene material is PE 3135 from Dow 9.39 with a density of 0.939 g/cm³. Note that the interceptor is tested and certified to the ASME A112.14.3, CSA B481 and ANSI Z1001 Standards and listed with I.A.P.M.O.

Function: Used in restaurants, kitchens, institutions, industrial facilities such as food processing and packaging plants and other types of food processing areas where fat, oil and grease (FOG) drains with the waste water. All SUPERMAX® gravity interceptors can withstand a temperature of up to and including 180 degrees Fahrenheit.



Model	Liquid Holding Capacity	Grease Ret. with Flow Rate @ 100 GPM	Grease Ret. with Flow Rate @ 250 GPM	A	Width B	C ¹ Dim.	C ² Dim.	D ¹ Dim.	D ² Dim.	E ¹ Dim.	E ² Dim.	F Connection Size	Shipping Weight (Lbs.)
SUPER-500	500 U.S. Gallons 1,890 Litres	3,492 lbs.	1,916 lbs.	111" 2820mm	64" 1630mm	18.75" 476mm	37.25" 946mm	26.25" 667mm	24.25" 616mm	45" 1143mm	61.50" 1562mm	4" 102mm	950
SUPER-750	750 U.S. Gallons 2,840 litres	5,002 lbs.	2,875 lbs.	111" 2820mm	64" 1630mm	18.75" 476mm	37.25" 946mm	34.88" 886mm	32.88" 835mm	53.63" 1362mm	70.13" 1781mm	4" 102mm	1,015
SUPER-1000	1000 U.S. Gallons 3,790 litres	6,577 lbs.	3,833 lbs.	111" 2820mm	64" 1630mm	18.75" 476mm	37.25" 946mm	45.25" 1149mm	43.25" 1099mm	64" 1626mm	61.50" 1562mm	4" 102mm	1,075
SUPER-1250	1250 U.S. Gallons 4,921 litres	8,177 lbs.	4,983 lbs.	111" 2820mm	64" 1630mm	18.75" 476mm	37.25" 946mm	56.25" 1429mm	54.25" 1378mm	75" 1905mm	91.50" 2324mm	4" 102mm	1,150
SUPER-1300	1300 U.S. Gallons 4,921 litres	8,501 lbs.	4,983 lbs.	111" 2820mm	64" 1630mm	18.75" 476mm	37.25" 946mm	56.25" 1429mm	54.25" 1378mm	75" 1905mm	91.50" 2324mm	4" 102mm	1,150
SUPER-1500	1500 U.S. Gallons 5,680 litres	9,862 lbs.	5,750 lbs.	111" 2820mm	64" 1630mm	18.75" 476mm	37.25" 946mm	62" 1626mm	62" 1575mm	82.75" 2102mm	99.25" 2521mm	4" 102mm	1,250
SUPER-2000	2000 U.S. Gallons 7,570 litres	13,102 lbs.	6,600 lbs.	111" 2820mm	64" 1630mm	18.75" 476mm	37.25" 946mm	85.50" 2172mm	83.50" 2121mm	104.25" 2648mm	120" 3048mm	4" 102mm	1,350

Suffix	Optional Variations
-AK	Anchor kit (set of two)
-C	Lid extension (specify dimension required)
-COA	Coalescer Pack
-DI	Ductile iron lid & collar
-DP	Dosing pump
-EP	Enzyme port
-FL-C	Membrane clamp kit
-F6	6" No Hub Inlet / Outlet connection (flow rate of 700 GPM with 6" connections)
-F8	8" No Hub Inlet / Outlet connection (fabricated stainless steel) (flow rate of 1,200 GPM with 8" connections)
-HLA	High level alarm and float switch (to be installed on site)
-LHSI	4" no hub inlet on left hand side
-LHSO	4" no hub outlet on left hand side

-POK	Remote pump out kit
-RHSI	4" no hub inlet on right hand side
-RHOS	4" no hub outlet on right hand side
-RPO	4" Remote pump outlet connections on top of interceptor - specify location and number required
-SB	Sediment bucket
-SP	External Sampling port - inline, high connections (Part # BIG-SP)
-SP-L	External Sampling port - inline, low connections (Part # BIG-SP-L)
-SP-OF	External Sampling port - offset (Part # BIG-SP-OF)
-SST	Fire resistant fabricated stainless steel interceptor
-ST	Fire resistant fabricated 10 gauge powder epoxy coated steel interceptor
-V	Vent connection - 4" (specify number required and location - side and / or top)
-3	Stainless steel veneer bolted to top of ductile iron grates

GRAVITY GREASE INTERCEPTOR (GGI) SIZING GUIDELINES TO THE IAPMO Z1001 DESIGN STANDARD

GRAVITY GREASE INTERCEPTOR (GGI) SIZING GUIDELINES TO THE IAPMO Z1001 DESIGN STANDARD:

The flow rate of the GGI is calculated to figure the possible highest flow produced by the drainage fixtures and equipment in the food prep area and then multiplied by retention time (usually determined by the local municipality) to produce the liquid volume (in gallons of water) needed for the grease interceptor. Gravity grease interceptors are typically required by IAPMO to have a 30 minute retention time, baffle(s), not less than two compartments, a total volume of not less than 300 gallons of liquid holding capacity and gravity separation.

IAPMO requires that the volume of the gravity grease interceptor shall be determined by using Table 1014.3.6. Where drainage fixture units (DFUs) are not known, the interceptor shall be sized based on the maximum DFUs allowed for the pipe size connected to the inlet of the interceptor. (Refer to Table 703.2 for DFU guide).

Table 1014.3.6

Gravity Grease Interceptor Sizing	
Drainage Fixture Units	Interceptor Volume
(DFUs)	(U.S. gallons of liquid holding capacity)
8	500
21	750
35	1000
90	1250
172	1500
216	2000
307	2500
342	3000
428	4000
576	5000
720	7500
2112	10,000
2640	15,000

GRAVITY GREASE INTERCEPTOR (GGI) SIZING EXAMPLE:

A restaurant has the following fixtures and equipment: one food preparation sink, three floor drains – one in the food preparation area, one in the grill area and one receiving the indirect waste from the ice machine and a mop sink.

Kitchen Drain Line DFU Count (from Table 702.1):

3 floor drains at 2 DFUs each	= 6 DFUs
Mop sink at 3 DFUs each	= 3 DFUs
Food prep sink at 3 DFUs each	= 3 DFUs
Total	= 12 DFUs

Therefore, using Table 1014.3.6, the grease interceptor will be sized at 750 gallons
(MIFAB® SUPERMAX® Model # SUPER-750).

DRAINAGE FIXTURE UNIT VALUES (DFU)

Drainage Fixture Unit Values (DFU)

PLUMBING APPLIANCES, APPURTENANCES, OR FIXTURES	MINIMUM SIZE TRAP & TRAP ARM ⁷ (inches)	PRIVATE	PUBLIC	ASSEMBLY ⁸
Bathtub or Combination Bath/Shower	1½	2.0	2.0	-
Bidet	1¼	1.0	-	-
Bidet	1½	2.0	-	-
Clothes Washer domestic standpipe ⁵	2	3.0	3.0	3.0
Dental Unit, cuspidor	1¼	-	1.0	1.0
Dishwasher domestic, with independent drain ²	1½	2.0	2.0	2.0
Drinking Fountain or Water Cooler	1¼	0.5	0.5	1.0
Food Waste Grinder commercial	2	-	3.0	3.0
Floor Drain emergency	2	-	0.0	0.0
Floor Drain (for additional sizes see Section 702.0)	2	2.0	2.0	2.0
Shower single-head trap	2	2.0	2.0	2.0
Multi-head each additional	2	1.0	1.0	1.0
Lavatory, single	1¼	1.0	1.0	1.0
Lavatory, in sets of two or three	1½	2.0	2.0	2.0
Wash fountain	1½	-	2.0	2.0
Wash fountain	2	-	3.0	3.0
Mobile Home trap ⁹	3	12.0	-	-
Receptor indirect waste ^{1, 3}	1½	See footnote ^{1, 3}		
Receptor indirect waste ^{1, 4}	2	See footnote ^{1, 4}		
Receptor indirect waste ¹	3	See footnote ¹		
Sinks	-	-	-	-
Bar	1½	1.0	-	-
Bar ²	1½	-	2.0	2.0
Clinical	3	-	6.0	6.0
Commercial with food waste ²	1½	-	3.0	3.0
Special Purpose ²	1½	2.0	3.0	3.0
Special Purpose	2	3.0	4.0	4.0
Special Purpose	3	-	6.0	6.0
Kitchen, domestic ² (with or without food waste grinder, dishwasher, or both)	1½	2.0	2.0	-
Laundry ² (with or without discharge from a clothes washer)	1½	2.0	2.0	2.0
Service or Mop Basin	2	-	3.0	3.0
Service or Mop Basin	3	-	3.0	3.0
Service flushing rim	3	-	6.0	6.0
Wash each set of faucets	-	-	2.0	2.0
Urinal integral trap 1.0 GPF ²	2	2.0	2.0	5.0
Urinal, integral trap greater than 1.0 GPF	2	2.0	2.0	6.0
Urinal, exposed trap ²	1½	2.0	2.0	5.0
Water Closet 1.6 GPF Gravity Tank ⁶	3	3.0	4.0	6.0
Water Closet 1.6 GPF Flushometer Tank ⁶	3	3.0	4.0	6.0
Water Closet 1.6 GPF Flushometer Valve ⁶	3	3.0	4.0	6.0
Water Closet greater than 1.6 GPF Gravity Tank ⁶	3	4.0	6.0	8.0
Water Closet greater than 1.6 GPF Flushometer Valve ⁶	3	4.0	6.0	8.0

For SI units: 1 inch= 25 mm

Notes:

- Indirect waste receptors shall be sized based on the total drainage capacity of the fixtures that drain therein to, in accordance with Table 702.2(b).
- Provide a 2 inch (50 mm) minimum drain.
- For refrigerators, coffee urns, water stations, and similar low demands.
- For commercial sinks, dishwashers, and similar moderate or heavy demands.
- Buildings having a clothes-washing area with clothes washers in a battery of three or more clothes washers shall be rated at 6 fixture units each for purposes of sizing common horizontal and vertical drainage piping.

- Water closets shall be computed as 6 fixture units where determining septic tank sizes based on Appendix H of this code.
- Trap sizes shall not be increased to the point where the fixture discharge is capable of being inadequate to maintain their self-scouring properties.
- Assembly [Public Use (see Table 422.1)].
- [HCD 2]** For drainage fixture unit values related to mobile home parks in all parts of the State of California, see California Code of Regulations, Title 25, Division I, Chapter 2, Article 5, Section 1268. For drainage fixture unit values related to special occupancy parks in all parts of the State of California, see California Code of Regulations, Title 25, Division I, Chapter 2.2, Article 5, Section 2268.

GREASE PRODUCTION SIZING METHOD

GREASE PRODUCTION SIZING METHOD:

Some industry people believe that sizing grease interceptors based on the amount of grease that is produced in a restaurant or kitchen makes a lot more sense than sizing based on flow rate of water and / or drainage fixture units going into the grease interceptor. This can be done first by flow rate and then by grease capacity for pump-out cycle. Note that local codes and ordinances should be followed for compliance. For example, a Chinese restaurant with a 4" drain line can be sized to require a grease interceptor with a 50 GPM flow rate. A Subway deli with a 4" drain line can also be sized to require a grease interceptor with a 50 GPM flow rate. Therefore, two restaurants with very different meal types and production of grease can end up having the same code compliant grease interceptor sized.

The following information and sizing chart can be used to size grease interceptors based on the grease produced in a variety of different restaurants. Note that local codes and ordinances should be followed for compliance.

Step 1: Size by Pipe Diameter / Flow Rate:

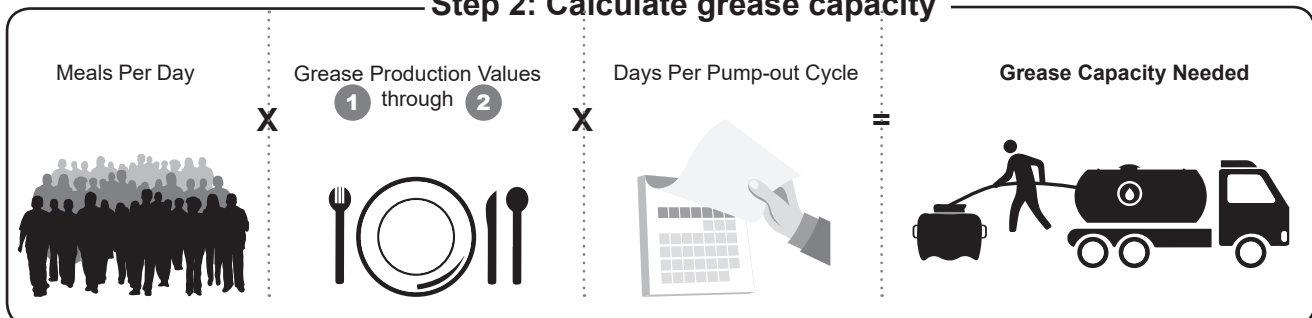
Hydromechanical Grease Interceptor Sizing Using Gravity Flow Rates (Per Chapter 10 of the Uniform Plumbing Code)

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 (20.8mm/m) based on Manning's formula with friction factor $N = 0.012$.

 Recommended

Step 2: Calculate grease capacity



Restaurant Type	Grease Production Values		Grease Production Sizing Method
Low Grease Production	①	0.005 lbs / meal (no flatware)	Frozen yogurt, hotel breakfast bar, sub shop, sushi, convenience store, deli, bar, residential.
	②	0.0065 lbs / meal (with flatware)	
Medium Grease Production	③	0.025 lbs / meal (no flatware)	Cafes, low grease output restaurants, pizza restaurant, grocery stores (with no fryer), ice cream parlor.
	⑤	0.0325 lbs / meal (with flatware)	
High Grease Production	④	0.035 lbs / meal (no flatware)	Full fare family restaurants, fast food hamburger, barbecue, Italian and fast food Mexican, school cafeterias, steakhouses, bakery, Chinese buffet, seafood, fried chicken, grocery stores with fryer.
	⑥	0.0455 lbs / meal (with flatware)	

GREASE PRODUCTION SIZING METHOD

Grease Production Value	Meals / Day	30 Day Cycle	60 Day Cycle	90 Day Cycle
1	250	Lil-15	Lil-15	Lil-20
	500	Lil-15	Lil-35	Lil-50
	750	Lil-20	Lil-50	BIG-750
	1,000	Lil-35	BIG-750	BIG-750
2	250	Lil-15	Lil-20	Lil-35
	500	Lil-20	Lil-50	BIG-750
	750	Lil-35	BIG-750	BIG-750
	1,000	Lil-50	BIG-750	BIG-750
3	250	Lil-50	BIG-750	BIG-750
	500	BIG-750	BIG-1150	BIG-1150
	750	BIG-750	BIG-1150	SUPER-500
	1,000	BIG-1150	SUPER-500	SUPER-500
4	250	Lil-50	BIG-750	BIG-1150
	500	BIG-750	BIG-1150	SUPER-500
	750	BIG-1150	SUPER-500	SUPER-500
	1,000	BIG-1150	SUPER-500	SUPER-1000
5	250	BIG-750	BIG-750	BIG-1150
	500	BIG-750	BIG-1150	SUPER-500
	750	BIG-1150	SUPER-500	SUPER-1000
	1,000	BIG-1150	SUPER-500	SUPER-1300
6	250	BIG-750	BIG-1150	SUPER-500
	500	BIG-1150	SUPER-500	SUPER-1000
	750	BIG-1150	SUPER-500	SUPER-1300
	1,000	SUPER-500	SUPER-1000	SUPER-1500
7	250	BIG-750	BIG-1150	SUPER-500
	500	BIG-1150	SUPER-500	SUPER-1300
	750	SUPER-500	SUPER-1000	SUPER-1500
	1,000	SUPER-500	SUPER-1300	SUPER-500
8	250	BIG-750	BIG-1150	SUPER-1300
	500	BIG-1150	SUPER-1000	SUPER-1500
	750	SUPER-500	SUPER-1300	SUPER-1500
	1,000	SUPER-1000	SUPER-1500	SUPER-1500

25% PUMP OUT RULE

Many local municipalities require that Gravity Grease Interceptors (GGI) be pumped out once the combined volume of retained FOG and food solids accumulates to 25% of the liquid volume of the interceptor. This is known as the "25% Rule". They also require that GGI must be pumped out within 30 days. This requires food service establishments to pump out their grease interceptor after 25% of the liquid volume has been filled with grease and / or solids and / or within 30 days - whichever comes first.

MIFAB's Big Max® grease interceptors are not subject to the 25% pump-out rule because they have been tested by a third party to a larger grease design capacity volume.

For example, a typical 750 gallon concrete grease interceptor has an estimated grease design capacity of 765 lbs. MIFAB's Big Max® BIG-750, 75 GPM grease interceptor has a grease design capacity of 750 lbs. A typical 1000 gallon concrete grease interceptor has an estimated grease design capacity of 1,020 lbs. MIFAB's Big Max® BIG-1150, 100 GPM grease interceptor has a grease design capacity of 1,150 lbs.

Therefore, the MIFAB® Big Max® grease interceptors are an economical alternative to 750 and 1,000 gallon concrete grease interceptors.

SPECS/FILES/LINKS**CSI SPECS, REVIT DETAIL & GREASE INTERCEPTOR SELECTION
GUIDE SOFTWARE LINKS**

Please go to the www.mifab.com website,
click on the Specifications link at the top to view these files.



Introducing MIFAB's New

GREASE INTERCEPTOR SELECTION GUIDE SOFTWARE

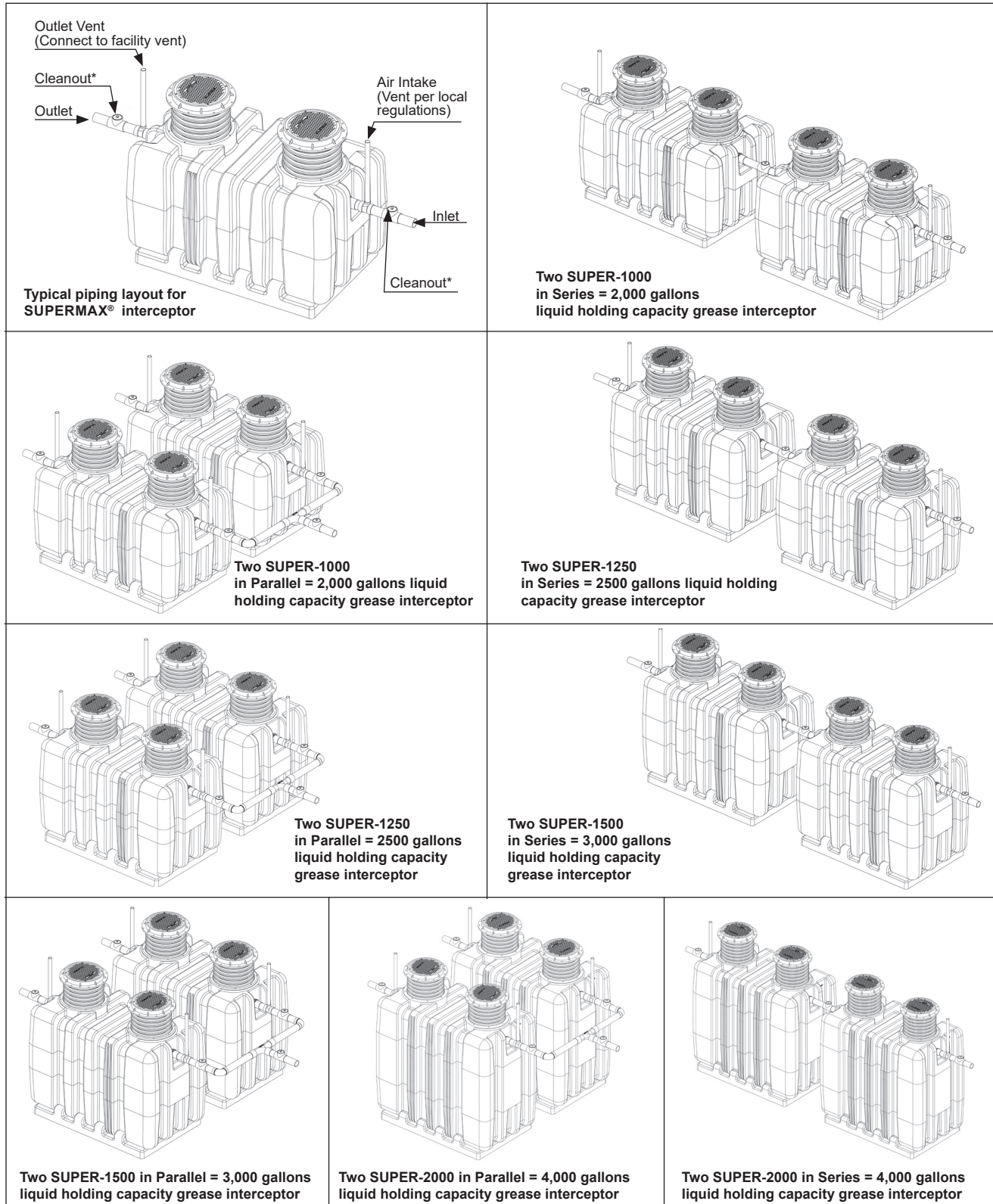
It is important to install the right size H.D.P.E. grease interceptor for your application. The correct size interceptor can significantly reduce maintenance and cleaning costs as well as fines associated with undersized interceptors.

This service is free to our customers and takes the guess work out of the process. Simply go to MIFAB®'s new H.D.P.E. Grease Interceptor Software website and answer a few simple questions. Our software will advise which of our H.D.P.E. Grease Interceptors is the correct fit for your application.

www.sizemyinterceptor.com

TYPICAL SUPERMAX® COMBINATIONS

Super Max® Interceptors may be used in any number of different combinations to properly service the application.

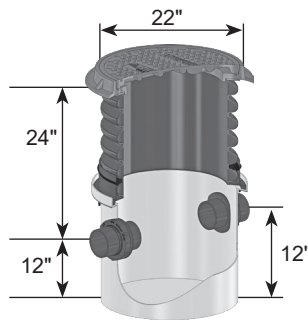


* Please see MIFAB® website for other combinations

SAMPLING PORTS - ABOVE AND BELOW GROUND

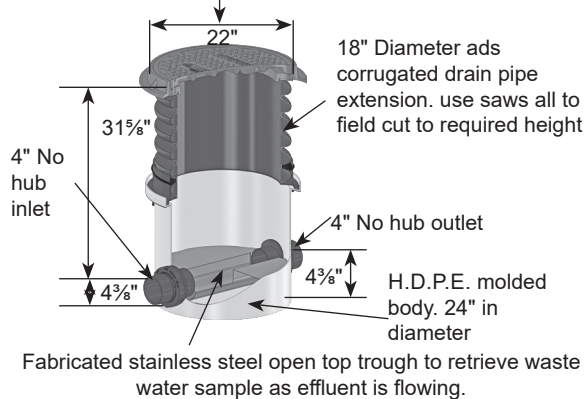
Several areas require the use of sampling ports to provide the local authorities an opportunity to retrieve and test waste water discharged from the grease interceptor to ensure that the FOG contained within the effluent is within requirements. MIFAB® offers three models of sampling ports for the Big Max grease interceptors; each with direct connect lids for above ground installation and also with extensions and H-20 load rated lids for in ground installation. MIFAB® offers two models of sampling ports for the Lil Max grease interceptors. One for inline connection and the other for offset connection.

BELOW GROUND SAMPLING PORTS

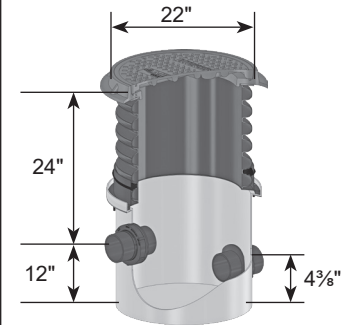


BIG-SP

Standard 20,000 lb. AASHTO H-20 load rated steel enased composite, gasketed lid & collar.

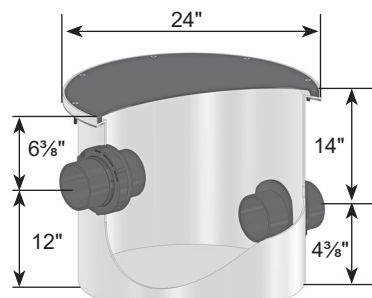


BIG-SP-L



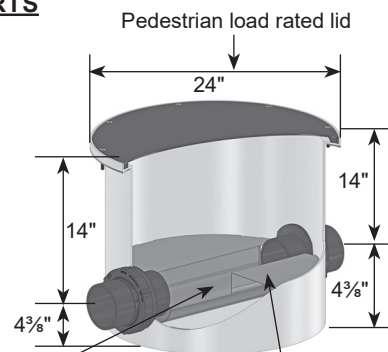
BIG-SP-OF

ABOVE GROUND SAMPLING PORTS

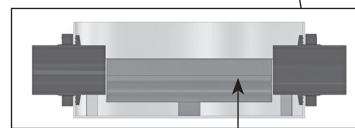


BIG-SP-OF-DC

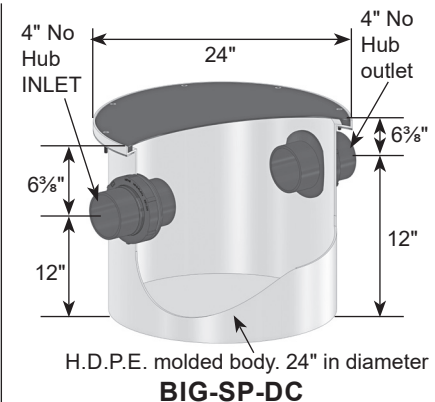
Fabricated stainless steel open top trough to retrieve waste water sample as effluent is flowing.



BIG-SP-L-DC



3/4" Drop from the inlet pipe accelerates flow and allows one to collect a sample with the horizontal placement of a collection jar. Part # BIG-SP-TROUGH.



BIG-SP-DC

REMOTE PUMP OUT OPTION DETAILS INCLUDING INSTALLATION

Cleaning a full grease interceptor is a dirty and smelly job. MIFAB® offers an efficient alternative to do this – the MIFAB® Remote Pump Out Options – RPO and -POK. This ensures that a dirty, greasy hose is not dragged through the inside of the restaurant to connect to the grease interceptor in order to pump it out. Instead, the pump out hose remains outside of the restaurant connected to the grooved threaded coupling on the outside wall.

Install PVC piping, connections, valves and/or hardware from the interceptor pump out port (see Detail # 1 below) to the pump out hook up location (see Detail # 2 below). At the end of the pump out PVC plumbing line, install the supplied PVC socket x MPT nipple. Attached the supplied 3" Cam and grooved threaded coupling onto the pipe nipple using pipe thread sealant or tape.

The 3" Cam and grooved threaded coupling is installed onto the outside wall of the restaurant. A 3" Cam and grooved cap snaps onto the coupling to seal it when not in use. During the cleaning process, the cap is removed so that the pumper can connect the grease suction hose to the coupling.

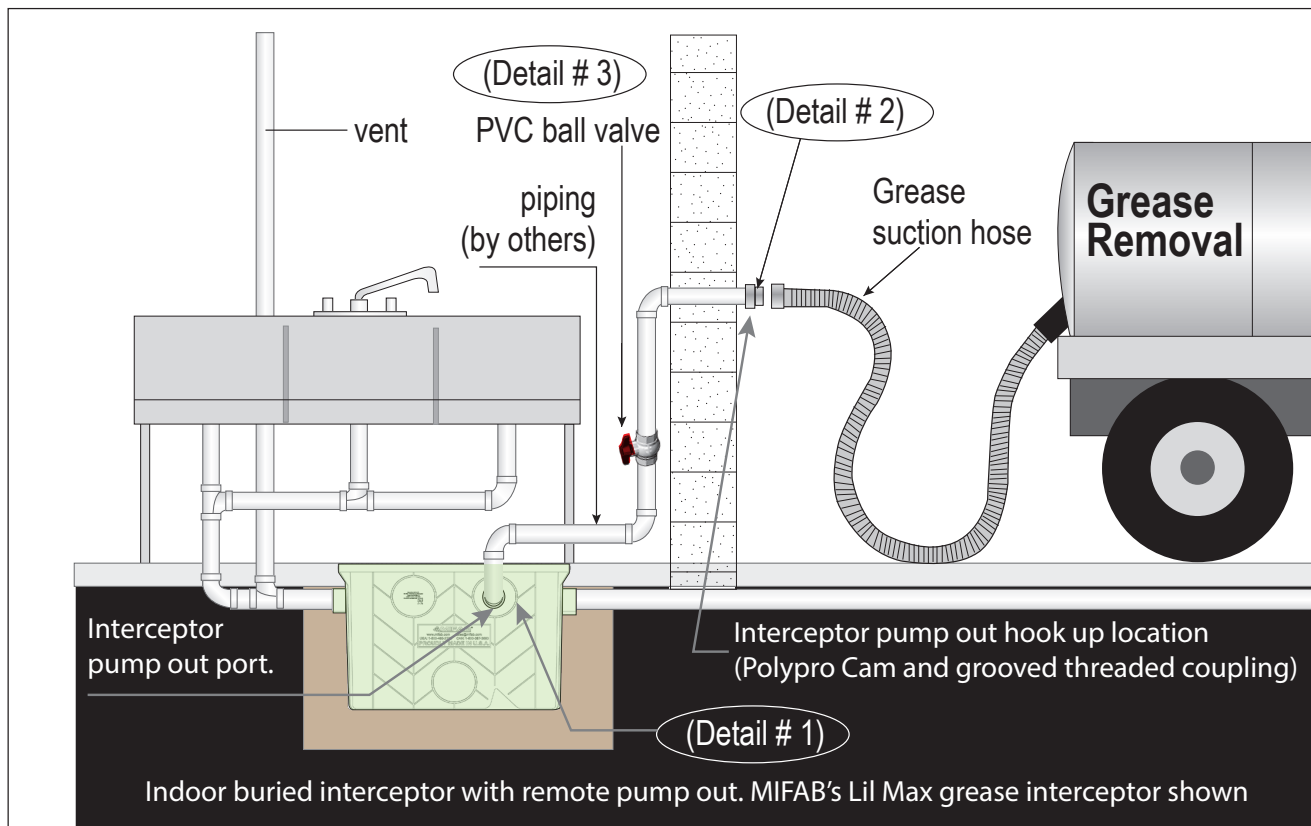
The PVC ball valve (see Detail # 3 below) supplied is installed within the PVC pipe (pipe by others) inside of the building. During normal operation of the grease interceptor, ensure that the PVC ball valve is in the closed position. During the cleaning process, ensure that the PVC ball valve is in the open position.

Note that the maximum vertical distance permitted from the 3" Cam and grooved coupling fastened to the wall and the interceptor pump out port is 21 feet. Also, the maximum horizontal distance from the pumper truck to the interceptor pump out port is 100 feet.

To pump out the interceptor, run the sinks that flow into the interceptor to ensure that it is full of water. Attach the pumper hose to the 3" Cam and grooved coupling. Open the ball valve. Turn on the pump within the pumper truck. Ensure that the interceptor is pumped out and inspect the pump out plumbing for leaks. Close the ball valve.

Install the 3" Cam and grooved cap onto the cam and grooved threaded coupling to seal the remote pump out connection at the outside wall.

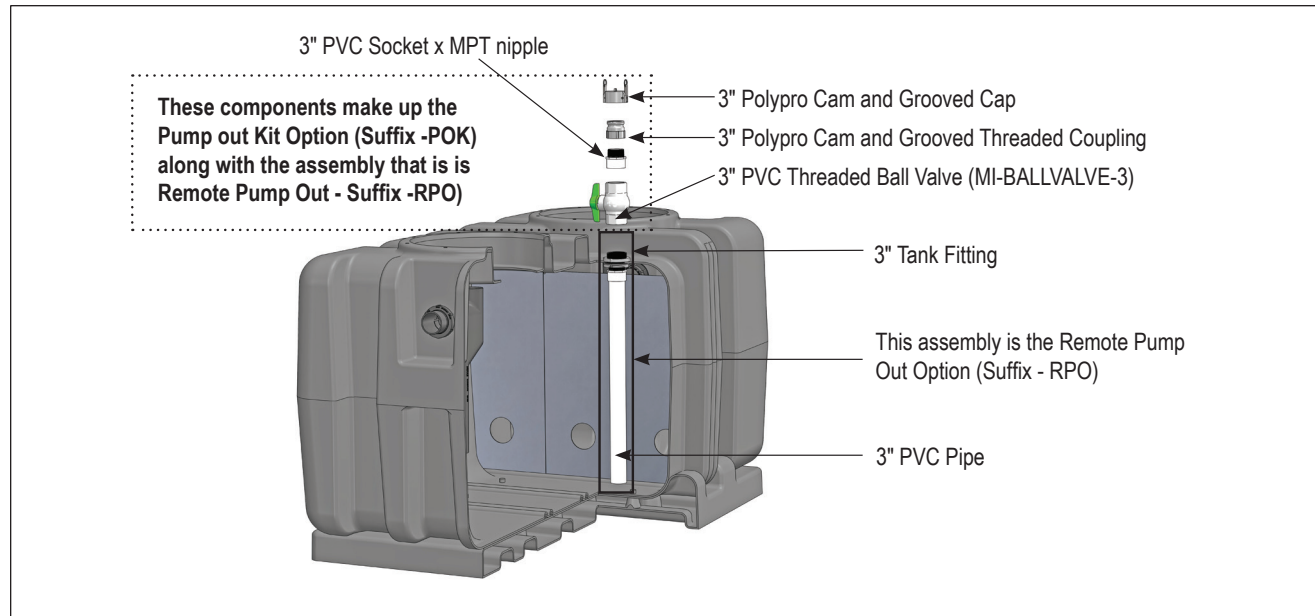
MIFAB® recommends to pump down the accumulated grease within the interceptor and then run hot water into the interceptor during the final pumping to clear the bottom remnants of the grease within the tank. During many years of discussions with pumpers; we have learned that with or without a pumpout kit, most determine a grease interceptor "pumped" as long as 90% is removed.



REMOTE PUMP OUT OPTION DETAILS INCLUDING INSTALLATION

Remote Pump Out (-RPO) Option: Cleaning a full grease interceptor is a dirty and smelly job. MIFAB® offers an efficient alternative to do this – the MIFAB® Remote Pump Out Options – RPO. This ensures that a dirty, greasy hose is not dragged through the inside of the restaurant to connect to the grease interceptor in order to pump it out. Instead, the pump out hose remains outside of the restaurant connected to the grooved threaded coupling on the outside wall.

Install the 3" Cam and grooved cap onto the cam and grooved threaded coupling to seal the remote pump out connection at the outside wall.

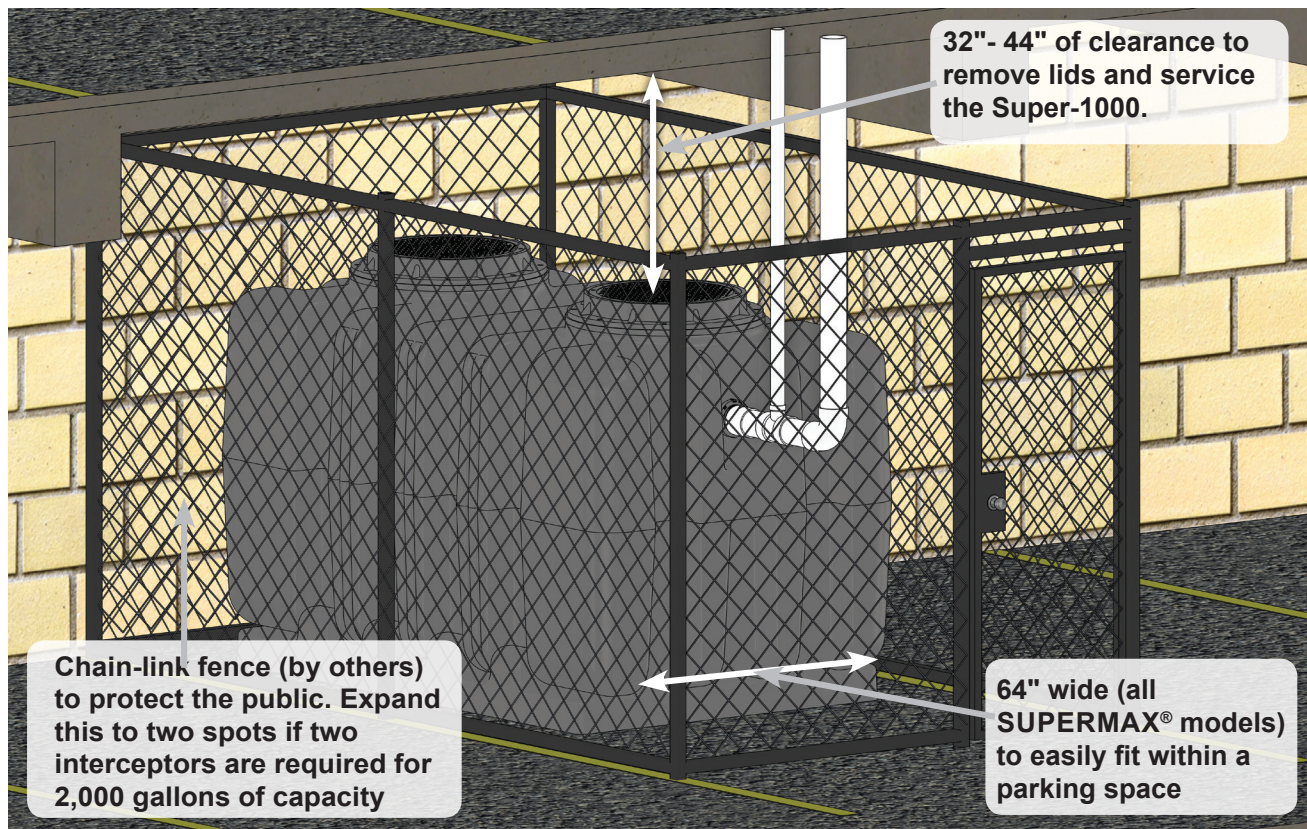


INTERCEPTOR INSTALLATION - ABOVE GROUND PARKING GARAGE

SUPERMAX® Gravity Grease Interceptors installed in a Parking Garage

In urban locations, there is often not enough space outside of the building to locate the grease interceptor. Therefore, many specifiers will locate the grease interceptor inside of the building; in a parking space or mechanical room. MIFAB® has designed the SUPERMAX® grease interceptors to have a consistent width of 64" and a consistent length of 111" regardless of their size (this applies to our 500, 750, 1000, 1250, 1300, 1500 and 2000 liquid holding capacity models). Most parking spots are 100" wide and 16 feet long; providing ample room for the SUPERMAX® to fit.

Parallel Tank Installation Note: 2 parking stalls at 100" minimum width equals 200" minus two SUPERMAX® grease interceptors at 64" wide each leaves 72", which when divided by three equals 24" of clear space on the outside of each interceptor and also in between them. These two interceptors could then be chain-link fenced to protect the public, and still fit nearly within two parking spaces.



The typical Building Code requirement for interior height of parking lots is 84" for regular and other accessible spaces and 98" for van accessible parking. *"All parking garages shall have an unobstructed headroom clearance of not less than 7' feet (84") above the finished floor to any ceiling, beam, pipe or similar obstruction."* City of Los Angeles Municipal Code 12.21A5. The depth of the ceiling beams can vary greatly and are somewhat proportional to their distance apart. The beam depth is often added to the overall height if the SUPERMAX® can be positioned between the beams.

A typical parking garage with 84" of vehicular clearance along with 12" to 18" of ceiling beam depth provides from 102" to 114" from floor to ceiling between the beams. Following are the heights of the larger SUPERMAX® gravity grease interceptors:

- 1) **Super-1000** – 70" high including the 6" high base, leaving 32" to 44" of space (respectively) to open the lids and service the interceptor. This is optimal and parallel tanks can double the capacity to 2,000 gallons.
- 2) **Super-1300** – 81" high including the 6" high base, leaving 21" to 33" of space (respectively). This also provides enough room for servicing and parallel tanks can double the capacity to 2,600 gallons.
- 3) **Super-1500** – 88.75" high including the 6" high base, leaving only 13" to 25" of crawlspace (respectively). Some Building Department Plan-Check and Permitting Inspectors have commented that using 20" as a minimum space based on IAPMO / ANSI Z1001 Section 4.4.2 which requires a 20" diameter I.D. minimum opening. However, that is extremely tight and likely to lead to improperly suctioned tanks, bad odors and potential clogging problems.

TERMS AND CONDITIONS**WHOLESALE DISCOUNT:**

Contact MIFAB® or your local representative for your applicable discount structure.

FREIGHT ALLOWANCE: For Lil Max® and Big Max® products only: Ex Works, MIFAB®'s Indiana Factory or Manufacturer Representative's warehouse with full motor freight allowed on shipments of 8 or more Lil Max® interceptors and / or 6 or more Big Max® interceptors, within the continental U.S.A., except Alaska, Hawaii and Puerto Rico. MIFAB® reserves the right to choose the carrier and route of shipment. Alaska: Ex Works, Seattle, WA. Hawaii: Ex Works, Los Angeles, CA. Puerto Rico: Ex Works, Miami, Florida. There is no allowance for United Parcel Service, Federal Express or Shipment by air service. Shipping dates are estimates and time of delivery is not the essence of the sale of the contract. Therefore, under no circumstances will MIFAB® have any responsibility on account of any delays in manufacture, transportation, or otherwise. Additional freight services such as construction site delivery, lift gate delivery service, re-consigned freight or notification charges, are not included in full freight allowance terms, and will result in additional freight charges. For SUPERMAX® interceptors, there is no freight allowance. All SUPERMAX® interceptors are ex-works MIFAB®'s factory in Portland, Oregon.

QUOTATION TERMS: List Price and discount protected for 30 days from date issued by MIFAB®. Orders received within this period must be released for shipment within 30 days from date of purchase order, otherwise, prices will be those that are in effect at the time of shipment.

PAYMENT TERMS: Terms of payment are Net 30 days from the date of the invoice. All pricing in United States currency except for sales to customers in Canada which will be invoiced in CAD. The Buyer shall pay all sales, consumers, and / or any other applicable taxes. Past due accounts will be subject to a 2% per month service charge from the date of the invoice. If any proceedings be instructed by or against Buyer under any bankruptcy or insolvency law, or if Buyer shall fail to make timely payment on this or any other order, or if, in MIFAB®'s judgment, Buyer's financial situation justifies such action, MIFAB® may, at its election, require payment in advance or cancel the order as to any unshipped item and require payment of its reasonable cancellation charges. If Buyer delays completion of manufacture, MIFAB® may elect to require payment according to percentage of completion. Equipment held for Buyer shall be at Buyer's risk and expense. In all cases, regardless of partial payment, title to the Products shall remain with MIFAB® until payment for the Products (including any notes given therefore) has been made in full. Should legal action be necessary to enforce payment of an unpaid invoice, the Buyer will assume full responsibility for any court costs and reasonable attorney fees. All orders subject to credit check and approval prior to shipment. Confirmed irrevocable letter of credit or cash in advance of shipment is required for accounts without an established line of credit. Minimum invoice amount is \$100.00. MIFAB® reserves the right to apply a minimum order charge to equal \$100.00. MIFAB®'s Accounting Department must be notified of potential pricing errors within 30 days of the invoice date. Any terms and conditions stated on Buyer's orders which are inconsistent with MIFAB®'s quotation and Terms and Warranties shall be of no effect.

RETURNED GOODS RESTOCKING CHARGE: Standard product may be returned within a one year period only with written permission from MIFAB®. All products in catalog are not considered Standard. Standard product to be determined by MIFAB®. Returned goods are subject to a 25% restocking charge, plus cost of reconditioning, if necessary, to make material saleable. Material must be returned to MIFAB® freight prepaid only after written permission from MIFAB® to accept the returned material. Buyer must provide copy of the original invoice on which the material was charged. The original outgoing freight cost to ship the order will be deducted from the credit. Credit allowance will be in the form of merchandise credit only-not cash credit which must be used within 12 months of the date of issue. The value of a return must total \$100.00 to qualify for credit allowance. Products designated non stock and / or that have been specially made (require a sign off drawing by MIFAB®) are not subject to return or cancellation.

LIMITED WARRANTY: See page 93 of MIFAB®'s INT-2019 H.D.P.E. Interceptor catalog for MIFAB®'s Limited Lifetime Warranty.

MIFAB® MAKES NO OTHER WARRANTIES EXPRESSED OR IMPLIED AS PROVIDED IN THIS LIMITED WARRANTY.

ILLUSTRATIONS OR TYPICAL INSTALLATIONS: The typical installations for various products in each product section are intended to illustrate the products and their options. Under no circumstances are they to be construed as recommended installation procedures. Consult local codes and project specifications for proper installation instructions.

NOTE: Prices and terms are subject to change without notice and supersede all previous quotations. The right is reserved to change or modify product design or construction without prior notice and without incurring any obligation to make similar changes and modifications to product previously or subsequently sold. Contact MIFAB® for any clarification.

All sales subject to MIFAB®'s Terms and Warranties.

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DESIGN AND DIMENSIONS ARE SUBJECT TO MODIFICATION. PRICES DO NOT INCLUDE APPLICABLE TAXES.

WARRANTY REGISTRATION CARD

These products come with a Limited Lifetime warranty, valid only when this warranty card is completed and returned to MIFAB®.

MIFAB® Inc. (MIFAB®) represents and warrants that our range of H.D.P.E. Lil Max®, Big Max® and SUPERMAX® grease, oil, solids, plaster, lint, sand, fish scale and rice interceptors (Products) will be free from any defects in material and workmanship, including corrosion, during the lifetime of the plumbing system in which the Products were originally installed and will, at its option, agree to replace, repair, or provide credit to the purchaser.

This warranty does not cover damage caused by the Products' normal usage, or wear and tear; nor does it cover damage from naturally occurring events, including, but not limited to UV, freeze related damage or natural disasters. The cost of regular maintenance (including the repair of parts) is not covered by this warranty. This warranty does not cover fabricated steel products or any monitoring equipment that may be used with MIFAB®'s H.D.P.E. interceptors. This warranty is only effective if the Products were:

- Installed per MIFAB®'s installation instructions and operated per MIFAB®'s operation and maintenance instructions;
- Installed in accordance with the applicable plumbing and building codes and passed all applicable testing methods immediately after installation;
- Not subjected to abuse or misuse, whether negligent or intentional;
- Not modified, altered or repaired by anyone not authorized by MIFAB®;
- Sold through a MIFAB® qualified wholesaler.

This warranty is the purchaser's sole and exclusive remedy, and acceptance of this exclusive remedy is a condition of the contract for the purchase of these Products.

Under no circumstances, shall MIFAB® be responsible for any incidental, special, consequential or punitive damages, or for any costs, attorney fees, expenses, losses or delays claimed to be as a consequence of any damage to, failure of, or defect in any of these Products including, but not limited to, any claims for loss of profits, transportation, removal and installation charges. This warranty is exclusive and in lieu of all other warranties or conditions, written or oral, expressed or implied.

Limited Lifetime Warranty Registration

INSTALLATION LOCATION:

Name: _____ Address: _____
Tel# _____ Email: _____

CONTRACTOR / INSTALLER:

Name: _____ Company: _____
Address: _____
Tel# _____ Email: _____ Installer signature: _____

PURCHASED FROM:

Name: _____ Company: _____
Address: _____
Tel# _____ Email: _____

SIZE AND MODEL OF MIFAB® INTERCEPTOR INSTALLED

TYPE OF FLOW CONTROL:	<input type="checkbox"/> Internal Flow Control	<input type="checkbox"/> External Flow Control
TYPE OF INSTALLATION:	<input type="checkbox"/> New	<input type="checkbox"/> Replacement
WHERE WAS IT INSTALLED:	<input type="checkbox"/> On the floor	<input type="checkbox"/> In Floor–Inside Building
	<input type="checkbox"/> Floor below (basement)	<input type="checkbox"/> In Ground – Outside Building