## SPECIAL PRECAUTIONS

**1. HIGH TEMPERATURE KITCHEN WATER**

If there is water entering the interceptor at over 150°F, a drain water tampering valve and approved backflow prevention assembly must be installed. Generally, State and local plumbing codes prohibit water above 150°F from being discharged into the sewer.

**2. HYDROSTATIC SLABS (OR PRESSURE SLABS)**

Interceptor must be enclosed in a water concrete vault when installed under a hydrostatic slab (slab designed to withstand upward lift- typically caused by hydrostatic pressure).

Installation not applicable for SUPER-2000

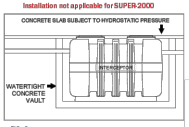


FIG. 2

**3. MAXIMUM WATER LEVEL**

The water level must not go above the height of Inlet / Outlet connection

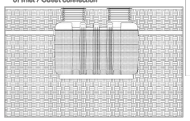


FIG. 3

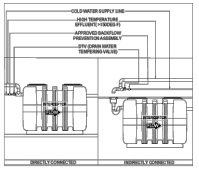


FIG. 1

**4. HIGH WATER TABLE INSTALLATIONS**

Interceptor and extension cannot withstand excessive water table height - see max water table height in figure 3. If possible, interceptor and extension should be installed in a water-tight concrete vault or backfilled with concrete or flowable fill (pour wet concrete and flowable backfill in stages to avoid crushing the interceptor). SUPER-MAX models buried in high water table are required to be installed with an anchor kit. High Risk Areas: Floodplains, tidal surge and high storm-water areas.

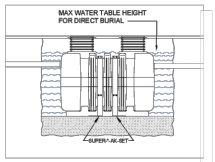


FIG. 4

1

## INSTALLATIONS

**BELOW GRADE/BACKFILL INSTALL:**

1. Install the Interceptor(s) as close as practical to the fixtures being served.
2. The excavation must be a minimum of 12" greater on all sides of the tank.
3. The depth of the excavation must be greater than 6" on the bottom of the interceptor.
4. Backfill while filling the interceptor with water at an equal rate until you reach the inlet/outlet. (Do not pack the backfill)
5. Fully install the double wall corrugated pipe and lid prior to backfilling.
6. Concrete or finishing material requirements are to be determined by the specifying engineer.
7. Encase the interceptor in well-packed ¾" rock, or sand. Do not compact backfill around interceptor.
8. To prevent float out; the Anchor kit is recommended for installations in high water table conditions. This is to be determined by the specifying engineer.

**9. Fill the interceptor with 12" of water, then backfill 12" to match the water level. (Repeat operation until Filled) Properly backfill per project specs. (Note: Do not compact backfill around unit)**

**FINISHED CONCRETE SLAB**

Slab must extend 18" minimum outside the footprint of the unit. Pedestrian traffic areas: 4" Thick reinforced concrete slab required. Vehicular traffic areas: Minimum 8" thick concrete slab with rebar is required.

Thickness of concrete around cover to be determined by specifying engineer. If traffic loading is required, the concrete slab dimensions shown are for guide purposes only. Concrete to be 28 day compressive strength to 4,000 PSI. Use #4 rebar (1/2") grade 60 steel per ASTM A615; connected with tire wire. Rebar to be 2-1/2" from edge of concrete and spaced in a 12" grid with 4" spacing around access openings.

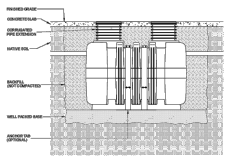


FIG. S2

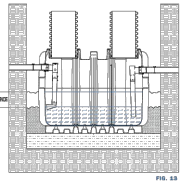


FIG. S3

TOP VIEW

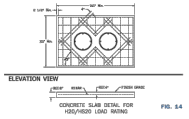
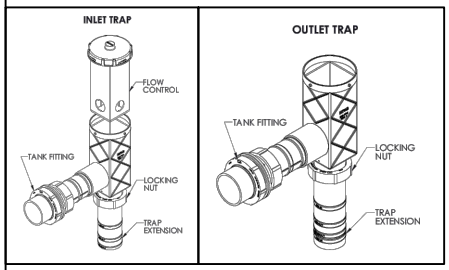
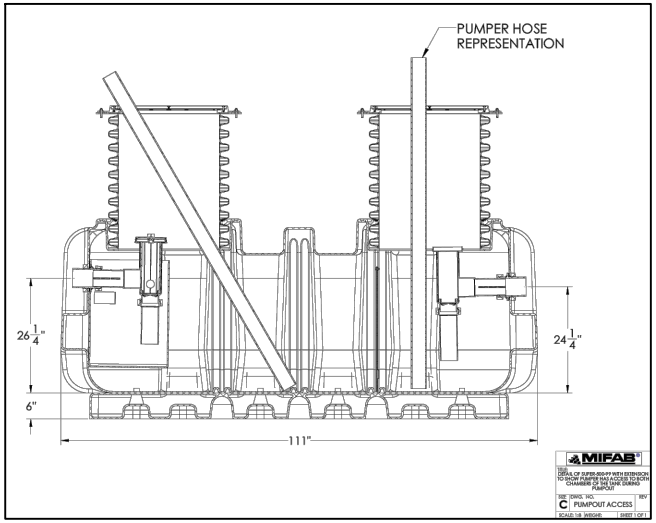


FIG. S4

CONCRETE SLAB DETAIL

6

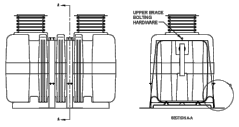



## SPECIAL PRECAUTIONS

**5. INSTALLATION SUPPORT - ANCHOR KITS**

Anchor kits are recommended for installation in high water table conditions to prevent floating . Necessity to be determined by Project Engineer. Hold down force is achieved by backfill weight acting on anchor plates. Bolt upper support brace together, then place over center channel. Bolt the anchor plate and upper support brace together using bolting hardware. Anchor plate may be bolted to concrete slab using provided holes.



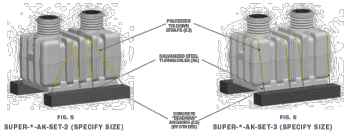



FIG. 5 FIG. 6

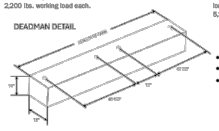
**SUPER-*-AK-SET-2 (SPECIFY SIZE)**

The SUPER-*-AK-SET-2 is used when greater hold down strength is required. The polyester tie-down straps and turnbuckles are rated at 2,200 lbs. working load each.

**SUPER-*-AK-SET-3 (SPECIFY SIZE)**

The SUPER-*-AK-SET-3 is used when greater hold down strength is required. The polyester tie-down straps are rated at 4,000 lbs. working load each and the turnbuckles are rated at 5,200 lbs. each.

DEADMAN DETAIL




- 4,000 PSI CONCRETE
- REINFORCED WITH #4 REBAR
- GALVANIZED TIE-DOWN LOOPS

2

## INSTALLATIONS

**EXTENSION COLLAR INSTALLATION**

1. Set the SUPER MAX unit 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 and mark the extension. Then, 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 meet grade. (ADS part #24N12)

2. Install the Pipe Gasket between the bottom ribs. 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. Watch the installation video at www.bit.ly/ADS-gasket.

3. Insert the extension collar and pipe gasket onto the opening of the SUPER-MAX. Press firmly until the extension is seated inside the provided recessed channel. The SUPER-MAX is 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 press more easily into place.

4. Remove the cover from the lid assembly to see the pre-drilled screw holes. Affix the lid gasket with the self adhesive on 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.

5. When installing the collar on concrete roads, an 8 inch width concrete ring team with a 1/4" width guard circle around it should be poured between the collar and brick setting to make the surrounding compaction level and unmovable.

6. When installing the collar in a bituminous road, the collar must be installed after the road is paved. Roller compaction by construction equipment around the collar must be avoided. A note that is slightly larger than the collar should be inserted before pouring the pavement. The reserved hole can help ensure the installation quality and prolong the usefulness of the installation.

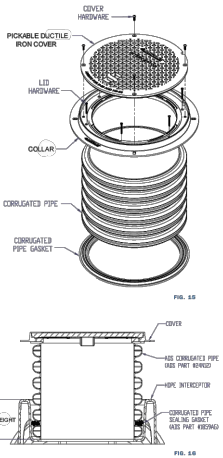
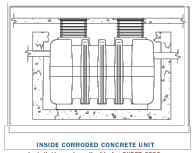
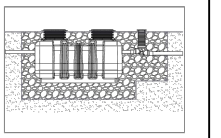


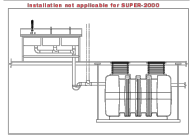
FIG. S5 FIG. S6

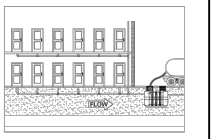
8

## APPLICATION SPECIFIC DETAILS

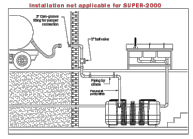

INSIDE CORRODED CONCRETE UNIT
Installation not applicable for SUPER-2000


INSTALLATION WITH SAMPORT

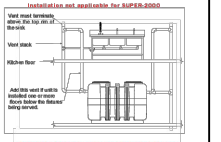

RECESSED AND SUSPENDED
Installation not applicable for SUPER-2000



SERVING AN APARTMENT COMPLEX
Installation not applicable for SUPER-2000



BASEMENT INSTALLTION WITH PUMPOUT KIT



ADDITIONAL VENTING FOR FLOOR-BELOW INSTALL

10

**SYSTEM SPECIFICATIONS**

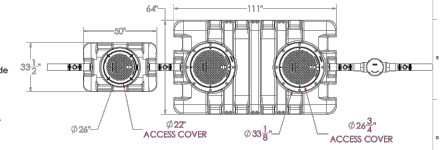
1. 4" No-hub inlet/outlet
2. Max flow rate: 100 gpm
3. Liquid Capacity: 539 gal
4. Max grease capacity: 3,623 lbs (Grease capacity based off 99% efficiency per Miami Derm FOG 2.0 requirement)
5. Ductile iron, pickable, H-20 load rated access covers
6. Maximum operating temperature: 150° F
7. Meets the PH of 3-10 per DERM Miami-Dade

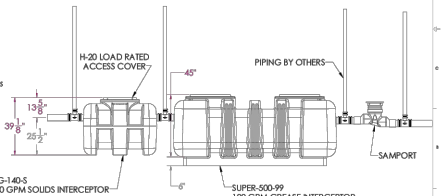
**NOTES**

1. Each grease interceptor is certified and listed by IAPMO to ASME A112.14.3, P.D.I. G-101, and CSA B481.1 grease interceptor standards
2. Internal flow control for ASME A112.14.3 tested interceptors and external vented flow control for P.D.I. G-101 tested units. MIFAB has both approvals.
3. 3/8" thick high density polyethylene walls
4. Unit supplied with ductile iron, pickable, H-20 load rated access covers
5. Cover placement allows full access to tank for proper maintenance
6. Vent system per local codes
7. For buried and above ground applications
8. Locate interceptor as close as possible to grease producing fixtures
9. Unique variable flow control inlet trap design

**OPTIONS**

- Corrugated pipe connections
- High water anchor kit (Set of 2)
- 6" pipe connections
- High level alarm monitoring system




MIFAB®

TITLE: SUPER-500-99

| SIZE | DWG. NO. | REV |
|---|---|---|
| C | XXXXX | |
| SCALE: | WEIGHT: | SHEET 1 OF 1 |

# SUPER-500-99

Grease Interceptor Calculation:
Per Florida Plumbing Code Section 1003.3.4, in accordance with PDI G101 Sec.8.3.1 sizing method based on pipe diameter and slope table:

| Minimum Slope | Pipe Size | GPM 2 minutes drain |
|---|---|---|
| 1/8" per ft | 4" | 100 |

**Seats X Turns X Grease Product X POF = Grease Capacity**

| Number of Seats | Turns per Seat | Meals per Day | Grease Production per Meal (lbs) | POF ( Days) | Grease capacity needed (LBS) | Description |
|---|---|---|---|---|---|---|
| 44 | 4 | 176 | 0.0455 | 90 | 721 | Eat-In |
| | | 75 | 0.035 | 90 | 236 | Take-Out |
| | | 200 | 0.035 | 90 | 630 | Bakery |
| **Total Grease Capacity Needed** | | | | | **1587** | |

**NOTE:**
1. All grease traps and solid interceptors can be cleaned at any time.
2. "Area for interceptors only"
3. No cars can park on top of them.

GREASE TRAP SCOPE OF WORK:
1. Connect New Fixtures and the new grease lines to SUPER-500-99 at 75 GPM.
2. Waste water Sample Port model # **SAMPORT**
3. SUPER-500-99 with H-20 load rated, ductile iron, pickable covers.
4. To comply with FOG 2.0 RER-DERM requirements.
5. Adjust pipe to meet existing elevation of main sanitary drain

MIAMI-DADE COUNTY

Satisfies Miami DERM 99% efficiency requirements. Product labels are permanently attached to inside and outside of unit for easy viewing.

| FOG 2.0 RER-DERM | |
|---|---|
| **Required Information** | **Total** |
| Sample Port | **SAMPORT** |
| Capacity (Gallons | 539 |
| FOG load capacity (lbs) at 99% efficency | **3,623** |
| Manufacturer | MIFAB |
| Model # | **SUPER-500-99** |
| 3rd party certifier | ASME |
| Interceptor Monitor Alarm (model#) | **HLA2** |
| Interceptor Monitor Device (model#) | By OTHERS |
| Solid Separator (model#) | **BIG-140-S** |

**NOTE:**
Sample port shall always be accessible without having to remove merchandise and without standing water, on ground level with minimum 36 inches horizontal clearance from any wall, fixed equipment or stored materials and a minimum of 48 inches vertical clearance from any stored materials or fixed equipment.
Grease interceptor shall always be accessible to allow for maintenance and cleaning without any impediments.

| SUPER-500-99 meets the DERM 99% efficiency and PH of 3 | Model # | Quantity | Flow (GPM) | Grease capacity Needed (lbs) |
|---|---|---|---|---|
| ASME A 112.14.3 Type C | SUPER-500-99 | 1 | 100 | 1,812 |

**NOTE:**
MIFAB interceptors will have access for cleaning the tanks from 72" above.

| No. | Test | Clear | Seconds | Rate (GPM) | lb. Added | lb. Skimmed | Lb. Retained | Efficiency | lb. Added | lb. Skimmed | lb. Retained | Efficiency |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 172 | 2 | 1 | 109.56 | 104.05 | 20.00 | 0.730 | 19.270 | 96.35% | 3440.00 | 25.990 | 3414.01 | 99.24% |
| 173 | 1 | 2 | 112.96 | 100.92 | 20.00 | 0.680 | 19.320 | 96.60% | 3460.00 | 26.670 | 3433.33 | 99.23% |
| 174 | 2 | 1 | 109.53 | 104.08 | 20.00 | 0.740 | 19.260 | 96.30% | 3480.00 | 27.410 | 3452.59 | 99.21% |
| 175 | 1 | 2 | 112.88 | 100.99 | 20.00 | 0.775 | 19.225 | 96.13% | 3500.00 | 28.185 | 3471.82 | 99.19% |
| 176 | 2 | 1 | 112.55 | 101.29 | 20.00 | 0.830 | 19.170 | 95.85% | 3520.00 | 29.015 | 3490.99 | 99.18% |
| 177 | 1 | 2 | 109.81 | 103.82 | 20.00 | 0.900 | 19.100 | 95.50% | 3540.00 | 29.915 | 3510.09 | 99.15% |
| 178 | 2 | 1 | 112.29 | 101.52 | 20.00 | 0.930 | 19.070 | 95.35% | 3560.00 | 30.845 | 3529.16 | 99.13% |
| 179 | 1 | 2 | 109.65 | 103.97 | 20.00 | 0.845 | 19.155 | 95.78% | 3580.00 | 31.690 | 3548.31 | 99.11% |
| 180 | 2 | 1 | 109.87 | 103.76 | 20.00 | 1.120 | 18.880 | 94.40% | 3600.00 | 32.810 | 3567.19 | 99.09% |
| 181 | 1 | 2 | 111.59 | 102.16 | 20.00 | 1.010 | 18.990 | 94.95% | 3620.00 | 33.820 | 3586.18 | 99.07% |
| 182 | 2 | 1 | 110.16 | 103.49 | 20.00 | 1.280 | 18.720 | 93.60% | 3640.00 | 35.100 | 3604.90 | 99.04% |
| 183 | 1 | 2 | 110.44 | 103.22 | 20.00 | 1.155 | 18.845 | 94.23% | 3660.00 | 36.255 | 3623.75 | 99.01% |
| 184 | 2 | 1 | 112.44 | 101.39 | 20.00 | 1.390 | 18.610 | 93.05% | 3680.00 | 37.645 | 3642.36 | 98.98% |

## Seats X Turns X Grease Product X POF = Grease Capacity

| Number of Seats | Turns per Seat | Meals per Day | Grease Production per Meal (lbs) | POF ( Days) | Grease capacity Needed (LBS) | Description |
|---|---|---|---|---|---|---|
| 44 | 4 | 176 | 0.0455 | 90 | 721 | Eat-In |
| | | 75 | 0.035 | 90 | 236 | Take-Out |
| | | 200 | 0.035 | 90 | 630 | Bakery |
| **Total Grease Capacity Needed** | | | | | **1587** | |

| FOG 2.0 RER-DERM | |
|---|---|
| **Required Information** | **Total** |
| Sample Port | **SAMPORT** |
| Capacity (Gallons) | 539 |
| FOG load capacity (lbs) at 99% efficency | 3,623 |
| Manufacturer | MIFAB |
| Model # | **SUPER-500-99** |
| 3rd party certifier | ASME |
| Interceptor Monitor Alarm (model#) | HLA2 |
| Interceptor Monitor Device (model#) | N/A |
| Solid Separator (model#) | **BIG-140-S** |

ANAB ACCREDITED ANSI National Accreditation Board ISO/IEC 17065 PRODUCT CERTIFICATION BODY

IAPMO R&T

SCC Accredited CB-PCS OCPS Accredited OCN

# CERTIFICATE OF LISTING

UPC

IAPMO Research and Testing, Inc. is a product certification body in which its product certification system includes inspection and testing of samples taken from the supplier's stock or from the market or a combination of both to verify compliance to the requirements of applicable codes and standards. This activity is coupled with periodic surveillance of the supplier's factory and/or warehouses as well as the assessment of the supplier's Quality Assurance System. This listing is subject to the conditions set forth in the characteristics below and is not to be construed as any recommendation, assurance or guarantee by IAPMO Research and Testing, Inc. of the product acceptance by Authorities Having Jurisdiction.

*Issued To:*

**MIFAB, INC.**

1321 WEST 119TH STREET CHICAGO, IL 60643 , United States

*Product:*

Hydromechanical Grease Interceptors

*Products are in compliance with the following code(s):*
**Uniform Plumbing Code (UPC®)**
**International Plumbing Code (IPC®)**

*Products are certified to the following standard(s)*
**ASME A112.14.3-2018 / CSA B481.1**

**File Number:** 3380 **Revised Date:** May 13, 2025

**Effective Date:** February 2024 **Void After:** February 2029*

Chairman, Product Certification Committee

Chief Technical Service Officer

*This certificate is not evidence of current listing. To verify listing status, visit the IAPMO R&T Product Listing Directory at pld.iapmo.org

This listing period is based upon the last date of the month indicated on the Effective Date and Void After Date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of the Product Certification Committee, or any evidence of non-compliance with applicable codes and standards or of inferior workmanship, may be deemed sufficient cause for revocation of this listing. Production of or reference to this form for advertising purposes may be made only by specific written permission of IAPMO Research and Testing, Inc. Any alteration of this certificate could be grounds for revocation of the listing. This document shall be reproduced in its entirety.

| SUPER-500-99 meets the DERM 99% efficiency and PH of 3 | Model # | Quantity | Flow (GPM) | Grease capacity Needed (lbs) |
|---|---|---|---|---|
| ASME A 112.14.3 Type C | SUPER-500-99 | 1 | 100 | 3,623 |