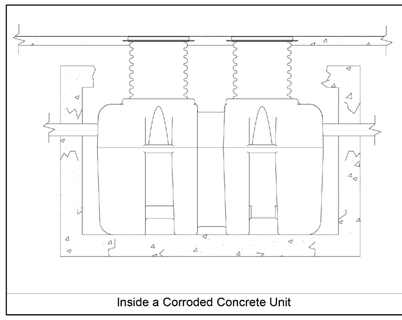
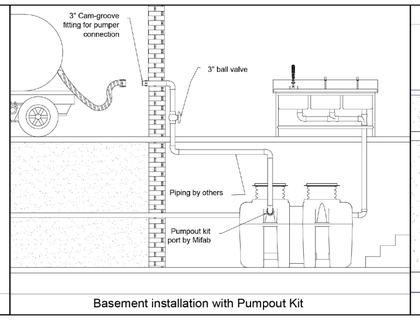
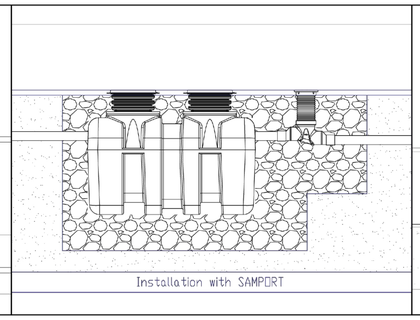


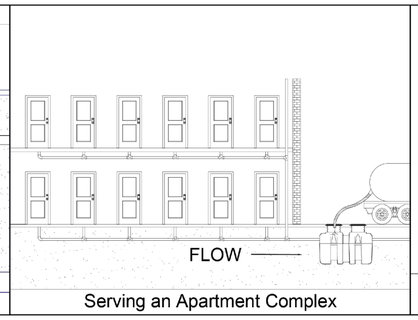
Inside a Corroded Concrete Unit



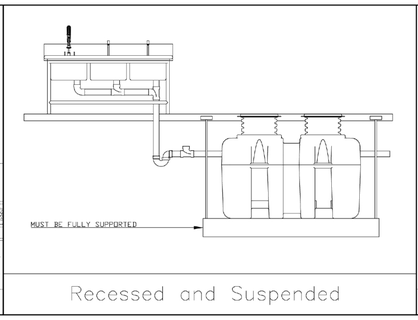
Basement installation with Pumpout Kit



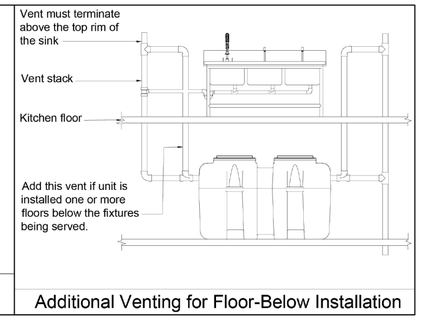
Installation with SAMPORT



Serving an Apartment Complex



Recessed and Suspended



Additional Venting for Floor-Below Installation

SPECIAL PRECAUTIONS

1. HIGH TEMPERATURE KITCHEN WATER

If there is water entering the interceptor at over 150°F. a drain water tempering 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).

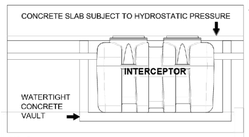


FIG. 2

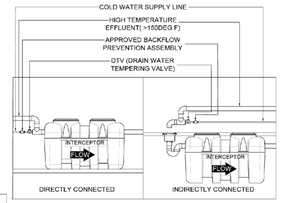


FIG. 1

3. MAXIMUM WATER LEVEL

The water level will never go beyond the level height of Inlet / Outlet connection

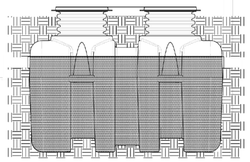


FIG. 3

4. HIGH WATER TABLE INSTALLATIONS

Interceptor and riser cannot withstand excessive water table height - see max water table height in figure 3. If possible, interceptor and riser should be installed in a water-tight concrete vault or backfill with concrete or flowable fill (pour wet concrete and flowable backfill in stages to avoid crushing the interceptor). BIG 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.

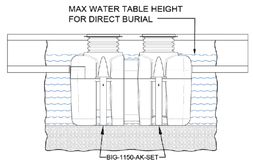
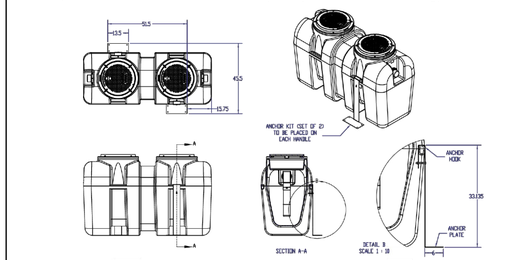


FIG. 4

SPECIAL PRECAUTIONS

5. ABOVE GRADE INSTALLATION SUPPORT - ANCHOR KITS

Anchor kit is recommended for installation in high water table conditions to prevent float out. Necessity to be determined by Project Engineer. Place Anchor hook over handle on interceptor. Bolt hardware through hole of anchor hook, to ensure hook does not become removed. Anchor plate may be bolted to concrete slab using provided holes.



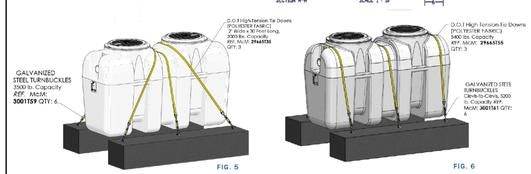


FIG. 5 FIG. 6

BIG-1150-AK-SET-2

The BIG-1150-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.

BIG-1150-AK-SET-3

The BIG-1150-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.

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 is 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.

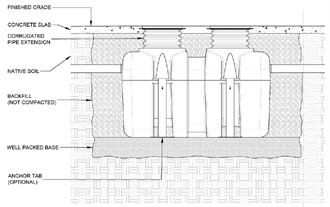
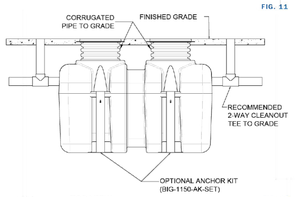
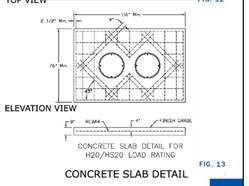


FIG. 11



TOP VIEW FIG. 12



ELEVATION VIEW

CONCRETE SLAB DETAIL FOR H20/HS20 LOAD RATING

CONCRETE SLAB DETAIL FIG. 13

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 guiding 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.

INSTALLATIONS

EXTENSION COLLAR INSTALLATION

1. Set the BIG MAX unit height to grade by installing the 18" 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 equal grade. (ADS pipe part #18N12)

2. Install the Pipe Gasket between the bottom ribs. Then firmly press the 18" 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 BIG MAX. Press firmly until the extension is seated inside the provided recessed channel. The BIG 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 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.

5. When installing the collar on concrete roads, an 8 inch-width concrete ring beam with a 16" 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 on 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 hole 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.

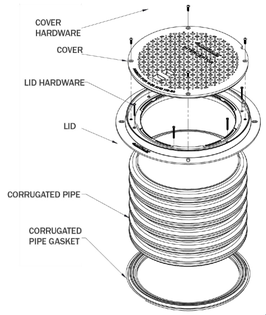


FIG. 14

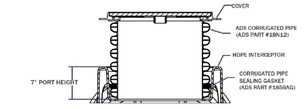
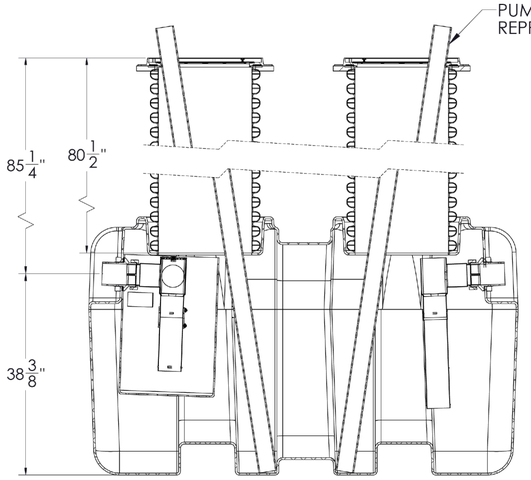


FIG. 15



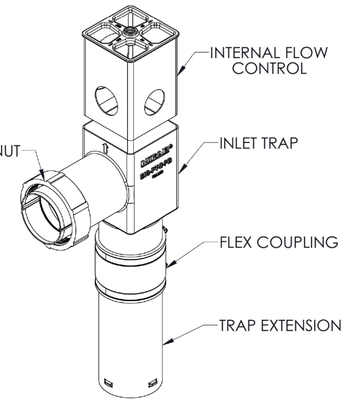
MIFAB

TITLE: DETAIL OF BIG-1150-99 WITH 80.5' EXTENSION TO SHOW PUMPER HAS ACCESS TO ENTIRE TANK DURING PUMP OUT

SIZE B | DWG. NO. PUMPOUT ACCESS | REV X

SCALE: 1:11 WEIGHT: | SHEET 1 OF 1

INLET TRAP



SYSTEM SPECIFICATIONS

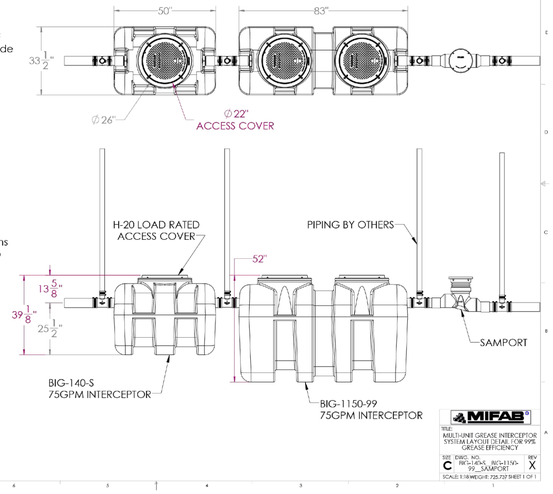
1. 4" No-hub inlet/outlet
2. Max flow rate: 75gpm
3. Liquid Capacity: 300 gal
4. Max grease capacity: 1811 lbs (Grease capacity based off 99% efficiency per Miami Derm FOG 2.5 requirement)
5. H-20 rated pickable access covers
6. Maximum operation temperature 150° F
7. Meets the PH of 3-10 per DERM Miami-Dade

NOTES

1. Each Grease interceptor is certified and listed by IAPMO to the ASME A112.14.3, (Type D) Standard.
2. 3/8" thick high density polyethylene walls
3. Unit supplied with pickable H-20 rated access covers
4. Cover placement allows full access to tank for proper maintenance
5. Vent system per local codes
6. Designed narrow footprint (33 1/2" wide) allows clearance through doorways and down stairwells
7. For buried and above ground applications
8. Locate interceptor as close as possible to grease producing fixtures

OPTIONS

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



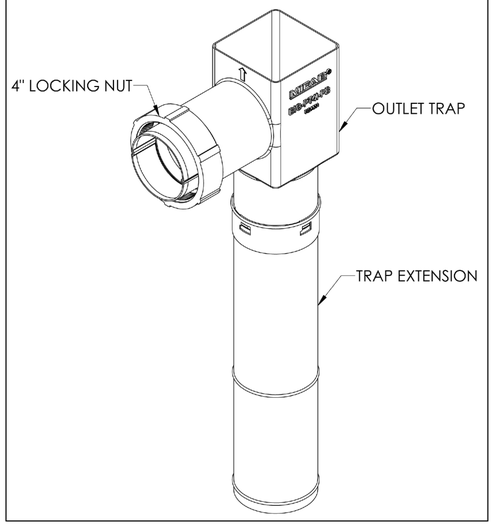
MIFAB

TITLE: MULTI-UNIT GREASE INTERCEPTOR SYSTEM LAYOUT DETAIL FOR 99% GREASE EFFICIENCY

SIZE C | DWG. NO. BIG-140-S, BIG-1150-99_SAMPORT | REV X

SCALE: 1:11 WEIGHT: 726.72# SHEET 1 OF 1

OUTLET TRAP



MIFAB

TITLE: BIG-1150-99

SIZE C | DWG. NO. XXXXX | REV

SCALE: 1:11 | WEIGHT: | SHEET 1 OF 1

BIG-1150-99

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"	75

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	400	0.0325	30	390	Eat-In
		400	0.0325	90	1170	Eat-In
		200	0.0325	90	585	
Total Grease Capacity Needed					1950	

FOG 2.5 RER-DERM	
Required Information	**Total**
Sample Port	SAMPORT
Capacity (Gallons)	300
FOG load capacity (lbs) at 99% efficency	1811
Manufacturer	MIFAB
Model #	BIG-1150-99
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.

BIG-1150-99 meets the DERM 99% efficiency and PH of 3	Model #	Quantity	Flow (GPM)	Grease capacity Needed (lbs)
ASME A 112.14.3, Type D	BIG-1150-99	1	75	1811

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

IAPMO RESEARCH AND TESTING, INC.

CERTIFICATE OF LISTING

MIFAB, INC.

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 A112.14.3-2019 / 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

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 SCOP OF WORK:
1. Connect New Fixtures and the new grease lines to BIG-1150-99 at 75 GPM.
2. Waste water Sample Port model # SAMPORT
3. Settler BIG-1150-99 with H20 rated pickable cast iron covers.
4. To comply with FOG 2.5 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.

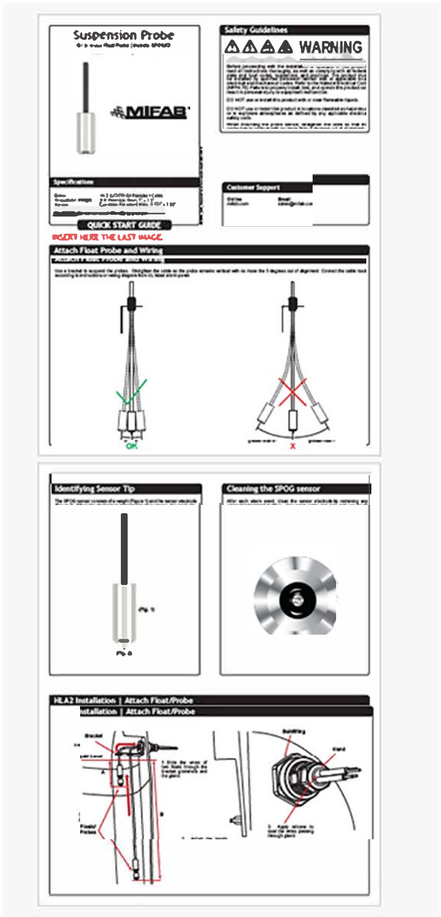
No.	Test	Clear	Seconds	Rate (GPM)	lb. Added	lb. Skimmed	Lb. Retained	Efficiency	lb. Added	lb. Skimmed	lb. Retained	Efficiency
115	1	2	109.75	77.90	15.00	0.345	14.655	97.70%	1725.00	15.845	1709.16	99.08%
116	2	1	112.44	76.04	15.00	0.285	14.715	98.10%	1740.00	16.130	1723.87	99.07%
117	1	2	112.85	76.13	15.00	0.410	14.590	97.27%	1755.00	16.540	1738.46	99.06%
118	2	1	111.93	76.13	15.00	0.315	14.685	97.90%	1770.00	16.855	1753.15	99.05%
119	1	2	112.57	76.13	15.00	0.335	14.665	97.77%	1785.00	17.190	1767.81	99.04%
120	2	1	110.71	76.13	15.00	0.320	14.680	97.87%	1800.00	17.510	1782.49	99.03%
121	1	2	112.97	76.13	15.00	0.310	14.690	97.93%	1815.00	17.820	1797.18	99.02%
122	2	1	110.58	76.13	15.00	0.295	14.705	98.03%	1830.00	18.115	1811.89	99.01%
123	1	2	109.75	76.13	15.00	3.290	11.710	78.07%	1845.00	21.405	1823.60	98.84%
124	1	2	112.44	76.13	15.00	0.490	14.510	96.73%	1860.00	21.895	1838.11	98.82%

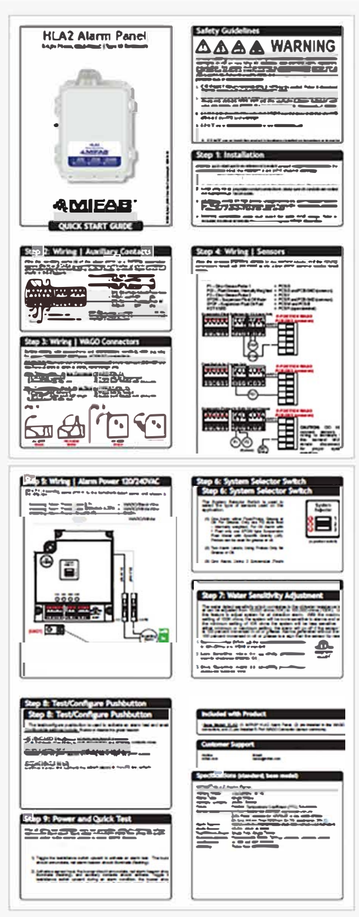
BIG-1150-99

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
11	4	400	0.0325	30	390	Eat-In
		400	0.0325	90	1170	Take-Out
		200	0.0325	90	585	Bakery
Total Grease Capacity Needed					1950	

FOG 2.5 RER-DERM	
Required Information	**Total**
Sample Port	SAMPORT
Capacity (Gallons)	300
FOG load capacity (lbs) at 9 9% efficency	1,811
Manufacturer	MIFAB
Model #	BIG-1150-99
3rd party certifier	ASME
Interceptor Monitor Alarm (model#)	HLA2
Interceptor Monitor Device (model#)	BY OTHERS
Solid Separator (model#)	BIG-140-S





BIG-1150-99 meets the DERM 99% efficiency and PH of 3	Model #	Quantity	Flow (GPM)	Grease capacity Needed (lbs)
ASME A112.14.3, Type D	BIG-1150-99	1	75	1,811

SAMPORT SPECIFICATION SHEET