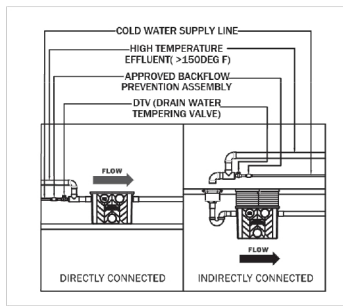


SPECIAL PRECAUTIONS

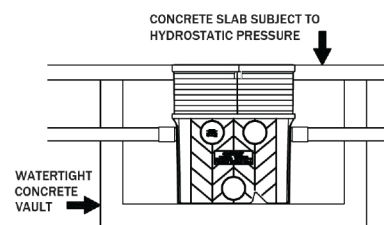
1. HIGH TEMPERATURE KITCHEN WATER

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.



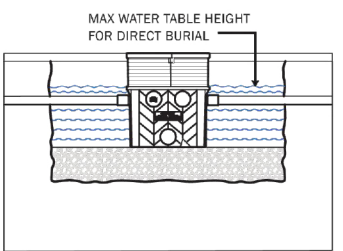
2. HYDROSTATIC SLABS (OR PRESSURE SLABS)

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).



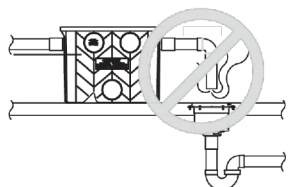
3. HIGH WATER TABLE INSTALLATIONS

Interceptor and extension cannot withstand excessive water table height - see max water table height. 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).



4. ODOR ALERT

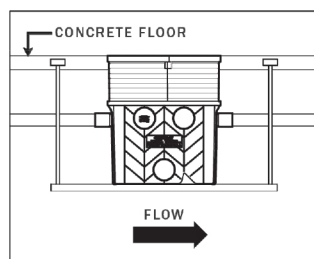
Do not install air gap on outlet side of interceptor.



SPECIAL PRECAUTIONS

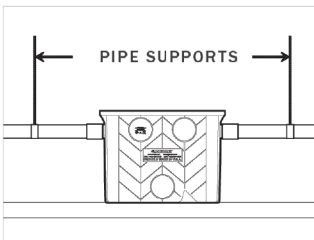
5. FULLY SUPPORT BASE OF UNIT

Interceptor must be installed on solid level surface with contact made on the entire footprint of the unit base. For suspended installations, a trapeze must be used to support the wet weight of the interceptor. The whole interceptor must be supported at all times - do not suspend interceptor using metal U-channel to create a trapeze.

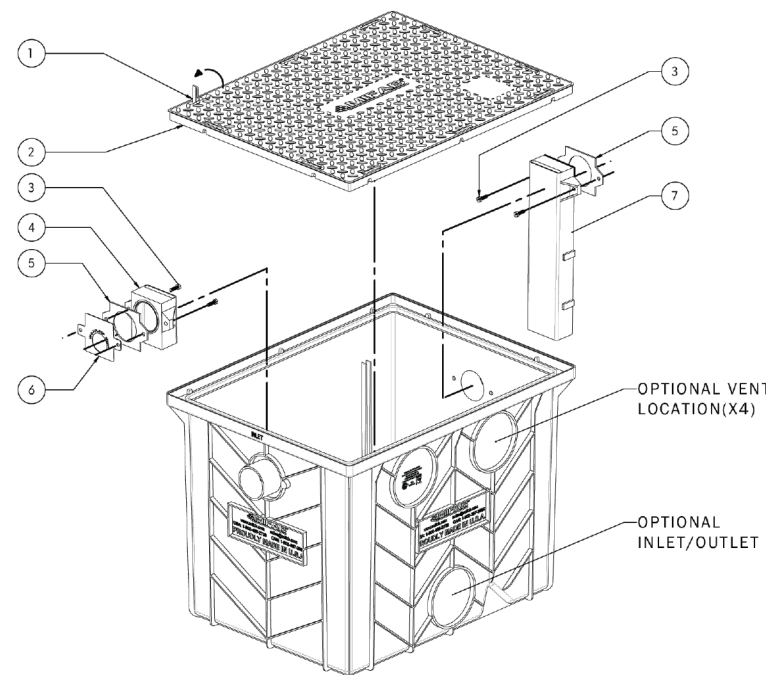


6. SUPPORT INLET AND OUTLET PIPING

The inlet and outlet piping connections require no hub pipe couplings. (See MIFAB's Quick Hub Series of no hub couplings). Keep outlet piping as straight as possible. MIFAB recommends installation of 4" (102 mm) cleanouts on both the inlet and outlet of LIL-MAX® interceptors in accordance with all applicable laws, regulations and codes. Use only "sweep" connections. Do not reduce the pipe sizing on the outlet piping. Do not install a "P" trap on the outlet connection of system. (Note: The system already has an internal gas trap).



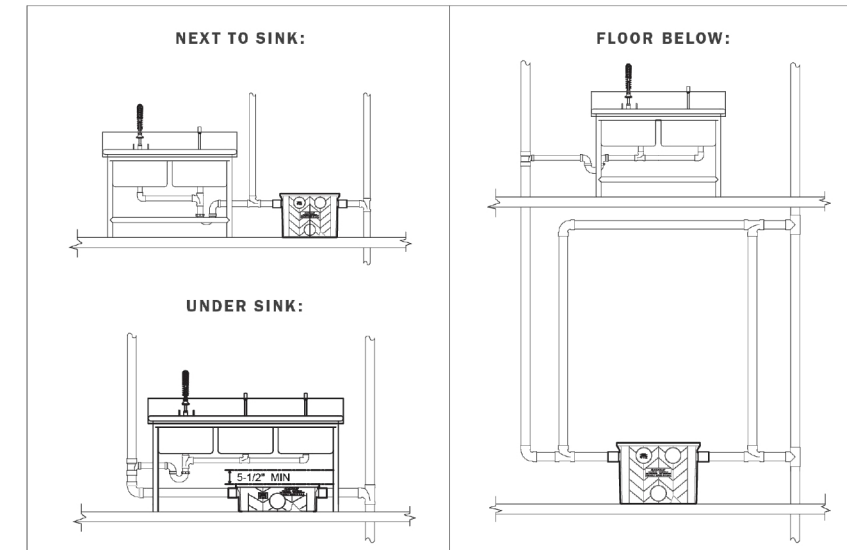
LIL-MAX COMPONENTS



- 1 LID LATCH
- 2 INTERCEPTOR LID
- 3 BOLT FOR INLET/OUTLET TRAP
- 4 INLET TRAP
- 5 INLET TRAP SEALING GASKET
- 6 INTERNAL FLOW CONTROL
- 7 OUTLET TRAP

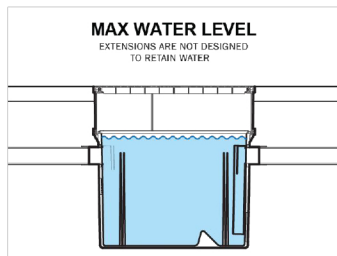
GENERAL INSTALLATION

ON THE FLOOR INSTALLATION:
Connect piping to interceptor using MIFAB no-hub coupling (See MIFAB's Quick Hub Series of no hub couplings). Ensure all upstream fixtures are trapped properly. **Vent per local code.**



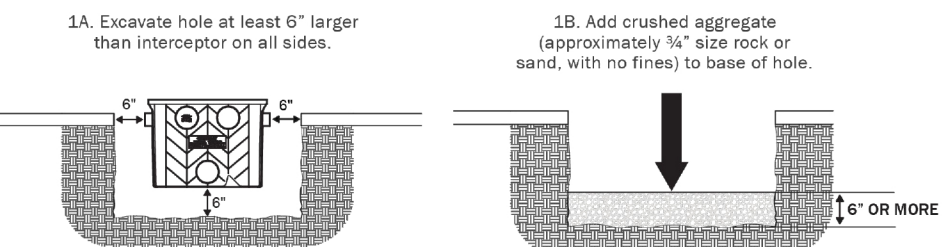
BURIED INSTALLATION

SPECIAL PRECAUTIONS:



3 EXTENSIONS (25.75") MAX

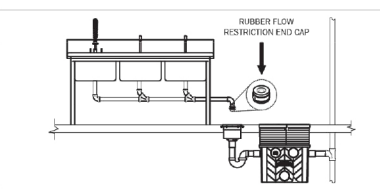
1. EXCAVATION:



BURIED INSTALLATION

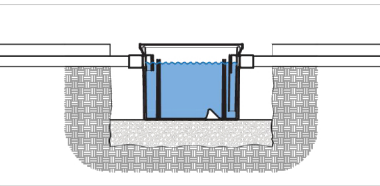
2A. FLOOR SINK INSTALLATION

If your dishwashing sink(s) discharges into a floor drain/sink (drain), you must regulate the flow into the drain to avoid an overflow of water onto the kitchen floor. This can be done by installing a valve or flow restriction cap on the sink piping that discharges into the drain.



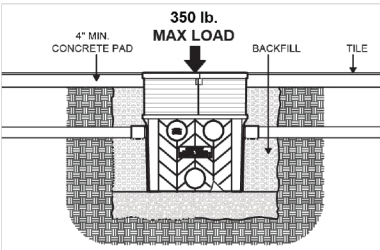
2B. IN-GROUND INSTALLATION

Set interceptor and connect piping using MIFAB no-hub coupling (See MIFAB's Quick Hub Series of no-hub couplings). Vent per local code. Fill tank with water so that it remains in place during backfill.



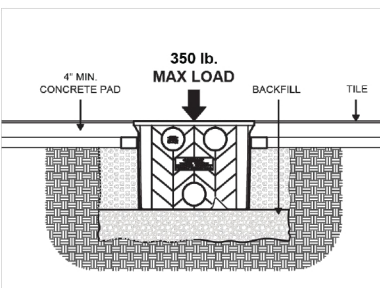
3. BACK FILL AND FINISHED GRADE

BELOW GRADE WITH EXTENSION (Preferred):
See instructions for LIL-MAX Extension Installation on MIFAB.com. Backfill evenly around tank using crushed aggregate (approximately 3/4" size rock or sand, with no fines), finish with a minimum 4" thick concrete pad.



FLUSH-TO-GRADE BURIALS:

Backfill evenly around tank using crushed aggregate (approximately 3/4" size rock or sand, with no fines), finish with a minimum 4" thick concrete pad.



SYSTEM SPECIFICATIONS

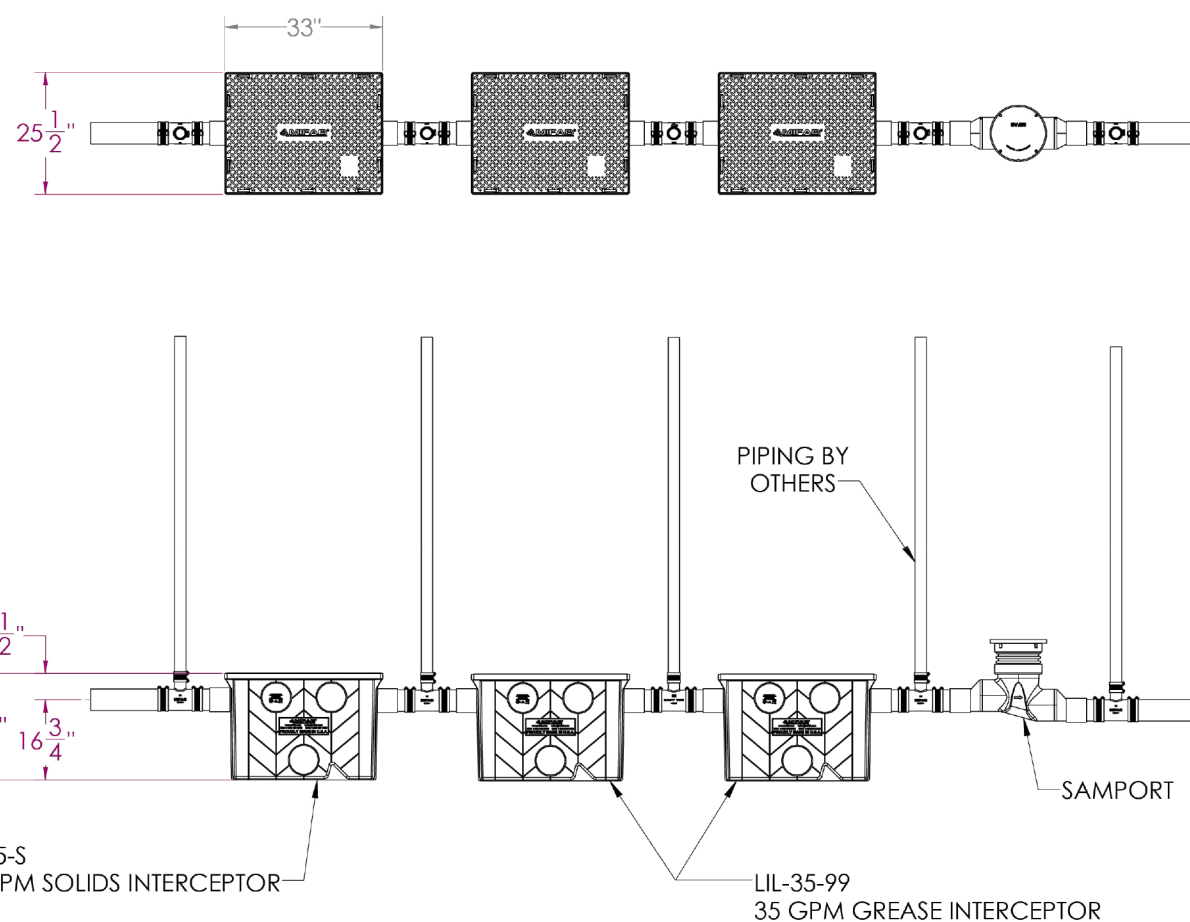
- 3" No-hub inlet/outlet
- Max flow rate: 35 gpm
- Liquid Capacity: 39 gal/unit
- Max grease capacity: 83.12 lbs (Grease capacity based off 99% efficiency per Miami Derm FOG 2.5 requirement)
- Easily removable access covers
- Maximum operating temperature: 150° F
- Meets the PH of 3-10 per DERM Miami-Dade

NOTES

- Each grease interceptor is certified and listed by IAPMO to the ASME A112.14.3, (Type A) Standard.
- Flow control to be installed in first unit only. 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.
- 3/8" thick high density polyethylene walls
- Unit supplied with easily removable cover (No tools required)
- Cover placement allows full access to tank for proper maintenance
- Vent system per local codes
- Designed narrow footprint (25 1/2" wide) allows clearance through doorways and down stairwells
- For buried and above ground applications
- Locate interceptor as close as possible to grease producing fixtures

OPTIONS

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



TITLE: LIL-35-99		
SIZE: C	DWG. NO.: XXXXX	REV: X
SCALE: 1:11	WEIGHT:	SHEET 1 OF 1

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MIFAB, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MIFAB, INC. IS PROHIBITED.

LIL-35-99

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	3"	35

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 LIL-35-99 at 35 GPM.
2. Waste water Sample Port model # SAMPORT
3. LIL-35-99 with easy removal cover.
4. To comply with FOG 2.5 RERDERM requirements.
5. Adjust pipe to meet existing elevation of main sanitary drain



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

FOG 2.5 RER-DERM

Required Information	Total
Sample Port	SAMPORT
Capacity (Gallons)	39
FOG load capacity (lbs) at 99% efficiency	83
Manufacturer	MIFAB
Model #	LIL-35-99
3rd party certifier	ASME
Interceptor Monitor Alarm (model#)	HLA2
Interceptor Monitor Device (model#)	BY OTHERS
Solid Separator (model#)	LIL-35-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.

NOTE:

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

LIL-35-99 meets the DERM 99% efficiency and PH of 3	Model #	Quantity	Flow (GPM)	Grease capacity Needed (lbs)
ASME A 112.14.3, Type A	LIL-35-99	2	35	83.12

STANDARD ASME A112.14.3 GREASE INTERCEPTOR RATING TEST FORM												PAGE 1 OF 1		
Interceptor Manufacturer: MIFAB					Model: MI-G-6-PL-99, LIL-35-99/ FE-35-99				GPM Size: 35		Report No.: TR-JC20190812-02			
Sink Capacity and Flow					Test Media Data		Flow Control Data			Testing Lab Information				
Capacity No. 1		35	Gal	Spec. Gravity: 0.873		Orifice Size: 1.53"			Test Lab: Good Harbour Labs.			Test Date: Aug 06 - 07, 2019		
Capacity No. 2		35	Gal			Type: Type A						Notes:		
Separate No. 1		27.4	GPM	Viscosity: 13.8 cps		Tested with 2 units plumbed in series			Test Technicians:			(1) Drainage gauged on clear compartment.		
Separate No. 2		26.6	GPM	De Wu Zhang					(2) The "amount retained" is a calculation of "Added" minus "Skimmed".					
Simultaneous 1		35.5	GPM	Yongyi Feng					(3) All skimmed weights taken after dewatering by separatory funnel and chilling.					
Simultaneous 2		35.1	GPM											
					INCREMENTAL				ACCUMULATED					
					(drop-skim) / drop x 100 = efficiency				(drop-skim) / drop x 100 = efficiency					
No.	Test	Clear	Second	Rate:GPM	lb. Added	lb. Skimmed	lb. Retained	Efficiency	lb. Added	lb. Skimmed	lb. Retained	Efficiency		
1	1	2	113.85	35.0	7.00	0.00	7.00	100.0	7.00	0.00	7.00	100.0		
2	2	1	113.97	35.0	7.00	0.00	7.00	100.0	14.00	0.00	14.00	100.0		
3	1	2	113.28	35.2	7.00	0.04	6.96	99.4	21.00	0.04	20.96	99.8		
4	2	1	112.53	35.5	7.00	0.04	6.96	99.4	28.00	0.08	27.92	99.7		
5	1	2	113.93	35.0	7.00	0.04	6.96	99.4	35.00	0.13	34.87	99.6	Summary and Adjusted	
6	2	1	112.59	35.4	7.00	0.05	6.95	99.3	42.00	0.17	41.83	99.6	Results based on the totals at the increment when grease retained equals 2 lb per gpm rated flow	
7	1	2	113.59	35.1	7.00	0.06	6.94	99.1	49.00	0.24	48.76	99.5	Req. retention: 70	
8	2	1	112.87	35.4	7.00	0.08	6.92	98.9	56.00	0.31	55.69	99.4	Increment No: 12	
9	1	2	113.59	35.1	7.00	0.10	6.90	98.5	63.00	0.42	62.58	99.3	1) Total Skimmed 0.88	
10	2	1	112.87	35.4	7.00	0.12	6.88	98.3	70.00	0.54	69.46	99.2	2) Total Retained 83.12	
11	1	2	113.75	35.1	7.00	0.15	6.85	97.8	77.00	0.69	76.31	99.1	3) Total Added 84.00	
12	2	1	112.00	35.6	7.00	0.19	6.81	97.3	84.00	0.88	83.12	99.0	Eff. =(line 3 - line1) / line 3	
13	1	2	113.18	35.3	7.00	0.21	6.79	97.0	91.00	1.09	89.91	98.8	Efficiency % = 99.0	
14	2	1	113.32	35.2	7.00	0.26	6.74	96.3	98.00	1.34	96.66	98.6		
15	1	2	111.53	35.8	7.00	0.23	6.77	96.7	105.00	1.58	103.42	98.5		

Seats X Turns X Grease Product X POF = Grease Capacity

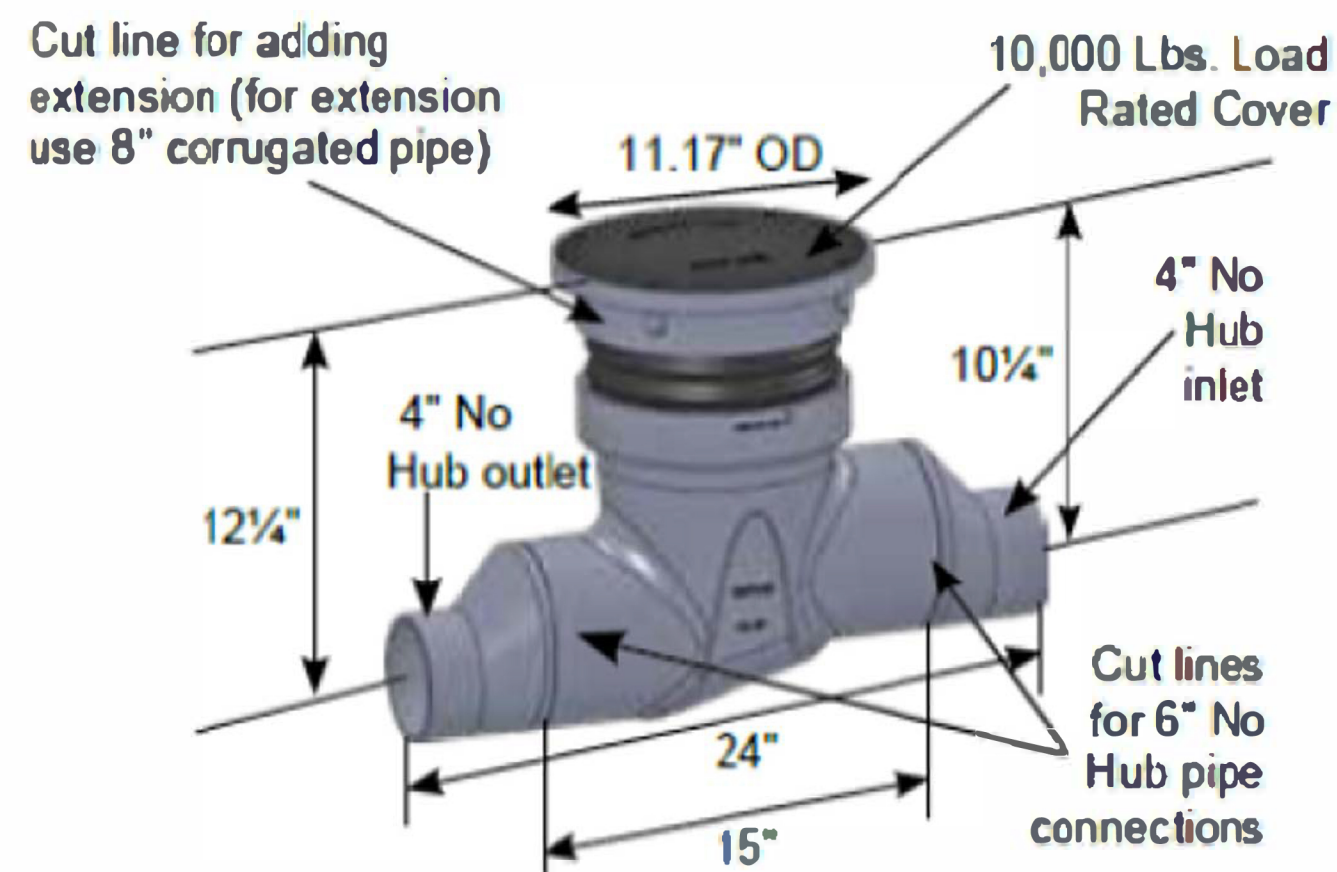
Number of Seats	Turns per Seat	Meals per Day	Grease Production per Meal (lbs)	POF (Days)	Grease Capacity Needed (LBS)	Description
44	4	176	0.0455	90	721	Eat-In
		75	0.035	90	236	Take-Out
		200	0.035	90	630	Bakery
Total Grease Capacity Needed					1587	

LIL-35-99 meets the DERM 99% efficiency and PH of 3	Model #	Quantity	Flow (GPM)	Grease capacity Needed (lbs)
ASME A 112.14.3, Type A	LIL-35-99	2	35	83.12

FOR 2.5 RER-DERM

Required Information	Total
Sample Port	SAMPORT
Capacity (Gallons)	39
FOG load capacity (lbs) at 99% efficiency	83
Manufacturer	MIFAB
Model #	LIL-35-99
3rd party certifier	ASME
Interceptor Monitor Alarm (model#)	HLA2
Interceptor Monitor Device (model#)	BY OTHERS
Solid Separator (model#)	LIL-35-S

SAMPORT SPECIFICATION SHEET



Notice of Verification

Good Harbour Laboratories Inc. (GHL) is an ISO 17025 accredited lab that specializes in testing the performance of water treatment equipment. GHL is also an ISO 17020 approved verifier for Environmental Technology Verification (ETV). GHL adheres to all relevant standards and protocols while testing or verifying but GHL is not a certifying body.

Test Date(s): August 06 - 07, 2019

Project No.: 2019-017

Report No.: TR-JC20190812-02

Issued To: MIFAB
1321 W 119th Street
Chicago, IL 60643

Product tested: MI-G-6-PL-99, LIL-35-99/ FE-35-99 (two units connected in series)

This product was tested to, and met the requirements of **35 GPM** rating of, the following standard(s):

PDI-G101 (2017)
ASME A112.14.3-2018 (Type A)

Results: The two units, connected in series, had an average removal efficiency of 99.0% with 83.12 lbs of lard retained.

Verified By:
Joe Costa
Senior Scientist & Quality Manager

Date: August 16, 2019

Good Harbour Laboratories
T: 907.696.7276 | E: info@goodharbourlabs.com
A: 2996 Dunwin Drive, Milwaukie, OR 97131-1125
www.goodharbourlabs.com

