

SYSTEM SPECIFICATIONS

- 4" No-hub inlet/outlet
- Max flow rate: 100gpm
- Liquid capacity: 300 gal.
- Max grease capacity: 2178 lbs.
Grease capacity based off 99% efficiency per Miami Derm FOG 2.0 requirement
- H-20 rated access covers
- Maximum operating temperature 180° F
- Meets the PH of 3-10 per DERM Miami-Dade

Notes:

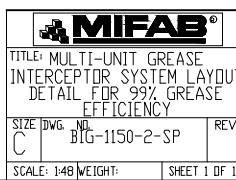
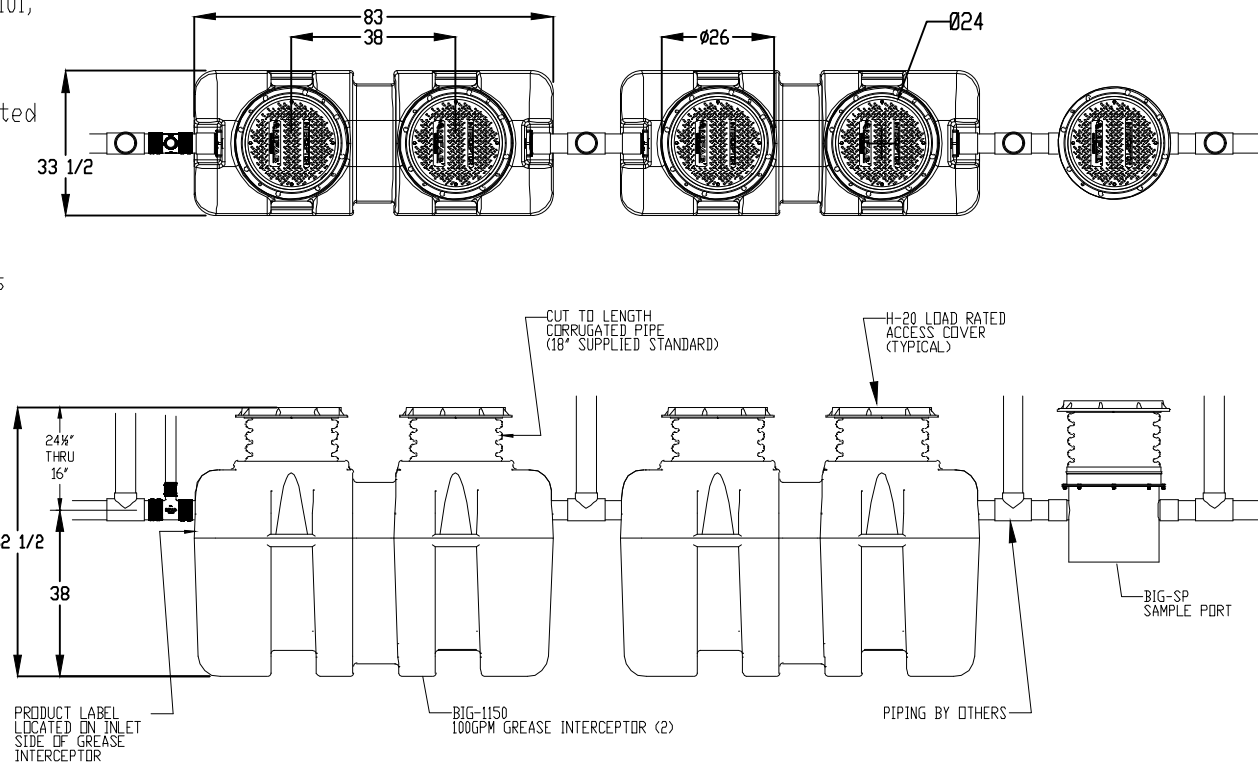
- Each grease interceptor is certified and listed by IAPMO to ASME A112.14.3, P.D.I G-101, and CSA B481.1 grease interceptor standards
- Flow control to be installed in first unit only. Internal flow control for ASME tested interceptors and external vented flow control for PDI-G101 tested units. MIFAB has both approvals.
- For gravity drainage application only. (Due not use for pressure application)
- 3/8" thick high density polyethylene walls
- Unit supplied with 18" corrugated pipe, 18" pipe gasket, and H-20 rated access covers
- Cover placement allows full access to tank for proper maintenance.
- Vent system per local codes.
- Designed narrow footprint(33 1/2") allows clearance through doorways and down stairwells.
- For buried applications.
- Locate interceptor as close as possible to grease producing fixtures
- Unique Enviro-Flow inlet trap design

Enviro-Flow

The enviro-flow design directs incoming wastewater sideways for more efficient laminar flow and separation.

Options:

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



STANDARD ASME A112.14.3 GREASE INTERCEPTOR RATING TEST FORM												PAGE 3 OF 4	
INCREMENTAL												ACCUMULATED	
No.	Test	Class	Sealed	Rate (GPM)	In. Actual	In. Standard	In. Actual	In. Standard	Efficiency	In. Actual	In. Standard	Efficiency	
72	2	1	111.82	102.1	20.00	0.20	18.80	99.9	1440.00	8.78	1431.24	99.4	
73	1	2	112.83	101.2	20.00	0.21	18.79	99.0	1400.00	8.97	1401.03	99.4	
74	2	1	109.34	104.3	20.00	0.22	18.78	98.8	1480.00	9.19	1470.81	99.4	
75	1	2	110.34	103.3	20.00	0.21	18.79	99.0	1500.00	8.40	1492.60	99.4	
76	2	1	112.84	101.0	20.00	0.21	18.79	99.9	1520.00	9.81	1510.36	99.4	
77	1	2	113.82	100.3	20.00	0.22	18.78	98.9	1540.00	9.83	1530.17	99.4	
78	2	1	109.53	104.1	20.00	0.24	18.76	98.8	1590.00	10.07	1549.93	99.4	
79	1	2	108.80	104.7	20.00	0.20	18.70	98.5	1680.00	10.37	1669.63	99.3	
80	2	1	113.18	100.7	20.00	0.22	18.78	98.9	1690.00	10.60	1659.40	99.3	
81	1	2	108.78	104.8	20.00	0.23	18.77	98.9	1620.00	10.83	1630.17	99.3	
82	2	1	110.78	102.9	20.00	0.23	18.77	98.9	1840.00	11.05	1828.95	99.3	
83	1	2	108.91	103.7	20.00	0.23	18.77	98.8	1880.00	11.29	1848.71	99.3	
84	2	1	108.08	104.0	20.00	0.26	18.76	98.3	1690.00	11.54	1658.46	99.3	
85	1	2	109.50	104.1	20.00	0.26	18.76	98.8	1700.00	11.78	1668.22	99.3	
86	2	1	108.98	106.0	20.00	0.28	18.74	98.7	1720.00	12.04	1707.96	99.3	
87	1	2	109.36	104.3	20.00	0.28	18.72	98.6	1740.00	12.31	1727.69	99.3	
88	2	1	108.79	103.8	20.00	0.30	18.70	98.5	1760.00	12.61	1747.39	99.3	
89	1	2	108.68	103.8	20.00	0.28	18.74	98.7	1780.00	12.87	1767.13	99.3	
90	2	1	110.83	103.1	20.00	0.27	18.73	98.8	1800.00	13.14	1786.86	99.3	
91	1	2	108.94	103.7	20.00	0.30	18.70	98.5	1820.00	13.44	1806.56	99.3	
92	2	1	108.96	105.0	20.00	0.31	18.69	98.5	1840.00	13.76	1826.26	99.3	
93	1	2	108.79	104.9	20.00	0.35	18.65	98.3	1860.00	14.10	1845.90	99.2	
94	2	1	111.87	101.5	20.00	0.34	18.68	98.3	1880.00	14.44	1865.56	99.2	
95	1	2	109.25	104.3	20.00	0.37	18.63	98.1	1900.00	14.81	1885.19	99.2	
96	2	1	108.93	103.7	20.00	0.42	18.58	97.9	1920.00	15.24	1904.76	99.2	
97	1	2	108.34	105.0	20.00	0.31	18.69	98.5	1940.00	15.54	1924.46	99.2	
98	2	1	108.19	104.4	20.00	0.37	18.63	98.2	1960.00	15.91	1944.09	99.2	
99	1	2	108.84	104.7	20.00	0.34	18.66	98.3	1980.00	16.26	1963.74	99.2	
100	2	1	109.97	103.7	20.00	0.40	18.60	98.0	2000.00	16.66	1983.34	99.2	
101	1	2	108.54	105.0	20.00	0.40	18.60	98.0	2020.00	17.06	2002.94	99.2	
102	2	1	113.83	103.1	20.00	0.38	18.62	98.1	2040.00	17.44	2022.56	99.1	
103	1	2	108.98	105.0	20.00	0.39	18.61	98.0	2060.00	17.83	2042.17	99.1	
104	2	1	110.93	102.8	20.00	0.47	18.53	97.8	2080.00	18.31	2061.88	99.1	
105	1	2	108.82	105.0	20.00	0.42	18.58	97.9	2100.00	18.73	2081.27	99.1	
106	2	1	110.97	102.7	20.00	0.44	18.56	97.8	2120.00	19.17	2100.83	99.1	
107	1	2	109.89	103.9	20.00	0.45	18.55	97.8	2140.00	19.62	2120.38	99.1	
108	2	1	112.88	101.2	20.00	0.47	18.53	97.7	2160.00	20.08	2139.92	99.1	
109	1	2	108.18	104.4	20.00	0.54	18.48	97.3	2180.00	20.63	2159.37	99.1	
110	2	1	108.44	104.2	20.00	0.60	18.60	97.8	2200.00	21.12	2178.88	99.0	
111	1	2	108.82	106.0	20.00	0.62	18.58	98.9	2220.00	21.74	2198.26	99.0	

BIG-1150(100 gpm) PERFORMANCE REQUIREMENT RATING

FOG 2.0 RER-DERM Hydromechanical FOG Control Device (H-FCD)

Required Information	Tank No.1	Tank No.2	Total Tanks (2)
Capacity (gpm)	100	100	
FOG Load Capacity (lbs) at 99% Efficiency	2178 LBS		2178 LBS
Manufacturer	Mifab	Mifab	Mifab
Model No.	BIG-1150	BIG-1150	(2) BIG-1150
3rd Party Certifier (i.e., PDI, CSA, ASME)	ASME	ASME	ASME
Interceptor Monitoring Alarm Model No.	N/A	N/A	N/A
Interceptor Monitoring Device Model No.	N/A	N/A	N/A
Solid Separator Make and Model	Mifab BIG-1150-S		

MIFAB® LIL MAX BIG MAX SoraMax INT-2020

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.

"I buy MIFAB HDPE grease interceptors for one reason, the local rep. It is the ability to get my questions answered quickly. The local knowledge is a great resource."

— Mark Gomez, Manager HGO Service, Louisville, KY

Step 1: Size by Pipe Diameter / Flow Rate:

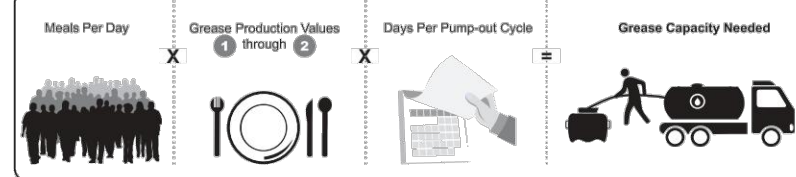
Hydromechanical Grease Interceptor Sizing Using Gravity Flow Rates (Per Chapter 10 of the Uniform Plumbing Code)

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/in) 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.
	④ 0.0325 lbs / meal (with flatware)	
High Grease Production	⑤ 0.035 lbs / meal (no flatware)	Full fare family, German, Italian, fast food Mexican, hamburger bar and grill and fast food hamburger, medium level restaurants with a fryer.
	⑥ 0.0455 lbs / meal (with flatware)	
Very High Grease Production	⑦ 0.058 lbs / meal (no flatware)	Full fare BBQ, fast food fried chicken, full fare Mexican, Steak and Seafood, Hawaiian, Chinese
	⑧ 0.075 lbs / meal (with flatware)	

CALIFORNIA PROPOSITION 65 WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Design and dimensions are subject to modification. Prices do not include applicable taxes. Visit www.mifab.com for the most recent product information.

MIFAB®, Inc., 1321 West 119th Street, Chicago, Illinois 60643-5109, USA USA Toll Free: 1-800-465-2736 • Fax: 1-773-341-3049 Canada Toll Free: 1-800-367-3888 • sales@mifab.com

MIFAB® LIL MAX BIG MAX SoraMax INT-2020

GREASE INTERCEPTOR CAPACITY DATA

Model No.	Flow Rate (GPM)	Liquid Cap (Gal)	Grease Design Cap. (Lbs)	Sediment Cap. (Gal)
LIL-7	7	5.8	37	2.0
LIL-10	10	8.5	42	2.0
LIL-15	15	13	50	3.1
LIL-20	20	16	73	3.9
LIL-25	25	23	79	5.8
LIL-35	35	39	86	10.6
LIL-40	40	44	109	11.9
LIL-25LP	25	19	74	11.9
BIG-750	75	140	501	42
BIG-1150	100	300	1556	115
SUPER-500	250	539	3492	53
SUPER-750	250	772	5002	77
SUPER-1000	250	1015	6577	102
SUPER-1250	250	1262	8177	126
SUPER-1300	250	1312	8501	131
SUPER-1500	250	1522	9852	152
SUPER-2000	250	2022	13102	202

Capacities listed are for reference. Many external circumstances can have an effect on the data provided.

PUMP OUT CYCLE	MEALS PER DAY	GREASE PRODUCTION VALUES							
		1 0.005 lbs/meal	2 0.0065 lbs/meal	3 0.025 lbs/meal	4 0.0325 lbs/meal	5 0.035 lbs/meal	6 0.0455 lbs/meal	7 0.058 lbs/meal	8 0.075 lbs/meal
30	250	LIL-7	LIL-15	BIG-750	BIG-750	BIG-750	BIG-750	BIG-750	BIG-750
	500	LIL-20	LIL-50	BIG-750	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150
	750	LIL-40	BIG-750	BIG-1150	BIG-1150	BIG-1150	BIG-1150	BIG-1150	BIG-1150
	1000	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150	BIG-1150	SUPER-500	SUPER-500

PUMP OUT CYCLE	MEALS PER DAY	GREASE PRODUCTION VALUES							
		1 0.005 lbs/meal	2 0.0065 lbs/meal	3 0.025 lbs/meal	4 0.0325 lbs/meal	5 0.035 lbs/meal	6 0.0455 lbs/meal	7 0.058 lbs/meal	8 0.075 lbs/meal
60	250	LIL-25	LIL-50	BIG-750	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150
	500	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150	BIG-1150	BIG-1150	SUPER-500
	750	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150	SUPER-500	SUPER-500	SUPER-500
	1000	BIG-750	BIG-750	BIG-1150	SUPER-500	SUPER-500	SUPER-500	SUPER-500	SUPER-750

PUMP OUT CYCLE	MEALS PER DAY	GREASE PRODUCTION VALUES							
		1 0.005 lbs/meal	2 0.0065 lbs/meal	3 0.025 lbs/meal	4 0.0325 lbs/meal	5 0.035 lbs/meal	6 0.0455 lbs/meal	7 0.058 lbs/meal	8 0.075 lbs/meal
90	250	LIL-60	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150	BIG-1150	SUPER-500
	500	BIG-750	BIG-750	BIG-1150	BIG-1150	SUPER-500	SUPER-500	SUPER-500	SUPER-500
	750	BIG-750	BIG-750	SUPER-500	SUPER-500	SUPER-500	SUPER-500	SUPER-750	SUPER-750
	1000	BIG-750	BIG-750	SUPER-500	SUPER-500	SUPER-500	SUPER-750	SUPER-1000	SUPER-1000

CALIFORNIA PROPOSITION 65 WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or