



TESTING AND RATING OF GREASE INTERCEPTOR
SM-MI-G-PL-500, SUPER-500 / FE-XL-500
AS PER PDI-G 101 (REVISED 2017)

Prepared by:

De Wu Zhang
April 30, 2019

Prepared for:

Jason Gremchuk
MIFAB
1321 W 119th Street
Chicago, IL 60643

Report ID: TR-DZ20180501-04

Test Summary:

PROJECT NUMBER: PN 18-005
DEVICE MANUFACTURER: MIFAB / FOG ENFORCER
TEST UNIT: SM-MI-G-PL-500, SUPER-500 / FE-XL-500
TEST PROCEDURE: PDI-G 101 (Revised 2017)
TEST DATE: April 9 - 10, 2018
TEST RESULT: PASS

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2.3. Analysis of Lard

The test lard was supplied by Dunge Canada in 20 kg boxes; product name Tenderflake® 19983 Pure Lard. Lot number 8066794M11; manufacture date Mar. 07, 2018. The test lard was analyzed for specific gravity and viscosity by GHL. The results are tabulated below.

Table 2 – Lard Analysis Results

Test	Result	Specification
Lard specific gravity	0.872 @ 150°F	0.875±0.005
Lard viscosity	14.2 cps (83.9 SSU) @ 150°F	N/A

2.4. Testing Procedure

Testing was completed in accordance with the PDI-G 101 protocol, revised 2017.

The flow control device was fitted with an orifice plate, with an opening diameter of 2.45 inches, to achieve the target test flow rate of 100 GPM.

The pH of the test water was 7.4 which is within the specification of 6.0 - 8.0.

3. Results

3.1 Flow Rate Verification

The flow rate was verified and was acceptable. The detailed results are presented in Appendix 1.

3.2 Grease Interceptor Rating

The SM-MI-G-PL-500, SUPER-500 / FE-XL-500 grease interceptor continued until run 15. Though the Break Point had not been reached, the retained lard capacity and removal efficiency were sufficient for PDI certification. The manufacturer decided to terminate the test after 15 runs.

The PDI rating criteria are presented in Table 3, the performance results are presented in Appendix 2.

Table 3 – PDI Test Criteria

Criterion	Observation	Result
Have an average efficiency of (90) percent or more	99.6% on Run #15	Pass
Have an incremental efficiency of (80) percent or more	99.3% on Run #15	Pass
Have retained not less than 225 lbs of lard	298.65 lbs on Run #15	Pass

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Location: _____

MIFAB® **SUPER-500-ASME** **SUPERMAX HYDROMECHANICAL GREASE INTERCEPTOR- 500 GALLONS LIQUID HOLDING CAPACITY**

Specification: MIFAB® Series SUPER-500-ASME HDPE injection molded hydromechanical grease interceptor with a grease holding capacity of 500 gallons. Interceptor is designed for above or below ground installation and includes extension pipe gasket for AODS 24x12 (pipe not included) for the adjustable lid system, sample port access, internal baffle, deep seal trap covered by lid, internal air relief by gases, stainless steel calibration surface plate (internal flow control), base for support and flow level installation and 4" no hub inlet and outlet connections. Steel enclosed composite lds provide a water / gas tight seal and have a minimum of 20,000 L.B. load capacity. In accordance with the loading requirements of ASHPTD-HDS. The high density polyethylene material is PE 3138 from Dow 0.39 with a density of 0.950 g/cm³. Note that the interceptor is tested and certified to the ASME A-112 14.3, Class 1581 and tested with (A) FM D. For information only.

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 grease interceptors can withstand a temperature of up to and including 180 degrees Fahrenheit.

SuperMax
Exact Large 0.875 Interceptor

U.S. Patent # 9,551,142

Illustrated with standard direct connect lid (AODS model R24N12)

34" Dia. AODS pipe (AODS model R24N12)

Internal baffle

Model	Liquid Holding Capacity (Gallons F.O.U.)	Grease Retention Capacity (Gallons)	Sediment Capacity (Gallons)	Flow Rate (GPM)	A	Width B	C' Dim.	D' Dim.	D' Dim.	D' Dim.	E' Dim.	F' Dim.	Shipping Weight (Lbs.)
① SUPER-500-ASME	539 / 72	3,402 lbs.	53	100 GPM	11"	64"	18.75"	37.25"	26.25"	24.25"	45"	61.50"	850
					262mm	1630mm	476mm	946mm	667mm	610mm	1143mm	1562mm	

SUFFIX	OPTIONAL VARIATIONS	PART NO.
-AK	Anchor kit (set of two) for all SuperMax interceptors	SUPER-AK-SET (" = Specify Size)
-C	Lid Extension - sets to 72" high - for all SuperMax interceptors (Two pieces required)	SUPER-EXT72
-DN	Ductile iron lid and collar - for all SuperMax interceptors (Two pieces required)	SM-MI-G-PL-1-B-DN
-EP	Drain Pump for L.I. Max, Big Max, SuperMax	SL-MI-PL-EP
-EP	Enzyme port for L.I. Max, Big Max, SuperMax	SL-MI-PL-EP
-FLC	Membrane clamp kit - for all SuperMax interceptors (Two pieces required)	SUPER-FLM (" = Specify Size)
-F	4" no hub inlet and outlet - for each piece (Two pieces required) (flow rate of 750 GPM with 4" connections)	MS-G-PL-FB
-F8	4" no hub inlet and outlet - for each piece (Two pieces required) (flow rate of 1250 GPM with 8" connections) (Not available for side intake / outlets)	MS-G-PL-FB8
-HLA	High level alarm and float switch (to be installed on side) (for L.I. Max, Big Max, SuperMax)	SL-MI-PL-HLA
-LMB	No hub inlet on left hand side (not available with sediment bucket) (for L.I. Max, Big Max, SuperMax)	MS-G-PL-FH4
-LMBD	No hub inlet on left hand side (not available with sediment bucket) (for L.I. Max, Big Max, SuperMax)	MS-G-PL-FH4
-PDS	PDS plate and external, vented flow control fitting (to meet FOG G-101 Standard)	Contest MIFAB
-PDS	Remains pump and kit (also includes Remains Pump Kit (RPK))	Contest MIFAB
-RHSB	No hub inlet on right hand side (not available with sediment bucket) (for L.I. Max, Big Max, SuperMax)	MS-G-PL-FH4
-RHSBD	No hub inlet on right hand side (not available with sediment bucket) (for L.I. Max, Big Max, SuperMax)	MS-G-PL-FH4
-RPS	2" Remains pump outlet connections on top of interceptor - specify location and number required	Contest MIFAB
-SB	Sediment bucket - for all SuperMax interceptors	SUPER-PBS (" = Specify Size)
-SP	External sampling port - inline, high connections	BIG-SP-L
-SP-L	External sampling port - inline, low connections	BIG-SP-L
-SP-OF	External sampling port - offset	BIG-SP-OF
-SBT	Fire resistant fabricated stainless steel interceptor	Contest MIFAB
-ST	Fire resistant fabricated 15 gauge powder epoxy coated steel interceptor	Contest MIFAB
-T	Female threaded connections - 4" (for each piece - Two pieces required)	MS-G-PL-PF4T
-4"	No hub inlet connections - 4" (specify number required and location - side and / or top)	MS-G-PL-PF4
-SP-OF	External sampling port - offset	BIG-SP-OF
-T	Female threaded connections - for each piece - Two pieces required	MS-G-PL-PF4T

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

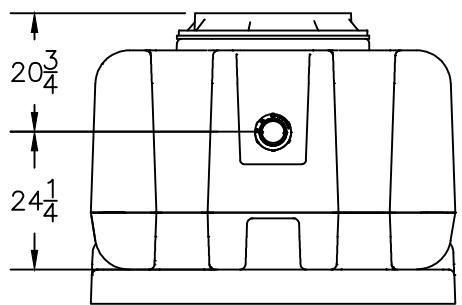
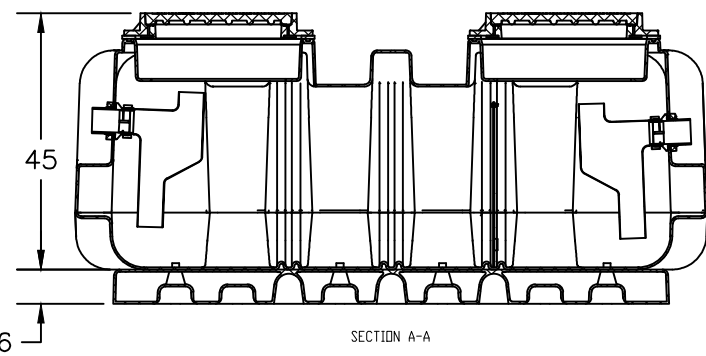
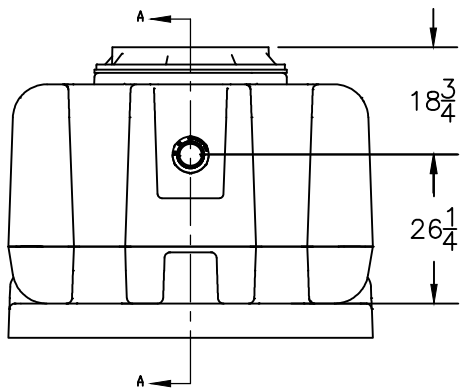
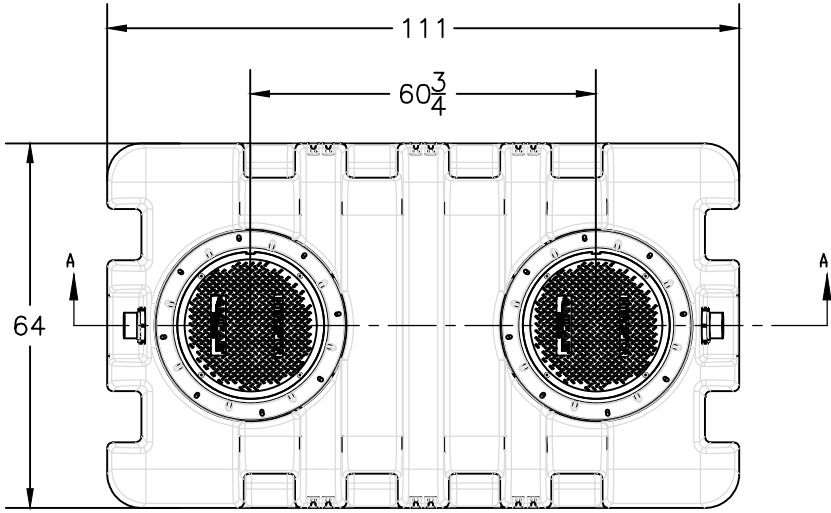
Job Name: _____ Page No: _____
Section No: _____ Contractor: _____
Schedule No: _____ Purchase Order No: _____

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- SUPER-500 Grease Interceptor
- 4' inlet and outlet no-hub connection.
 - 298.65 Grease retention at 99% efficiency
 - H-20 load rated access cover
 - Maximum operating temperature 180deg. continuous

Details

- 3/8" Thick seamless high density polyethylene.
- Full internal access through lid.
- Vent not required for proper operation.
- Designed for above or below grade insatlation.



MIFAB®			
TITLE: 500 GAL. GREASE INTERCEPTOR			
SIZE: C	DWG. NO. SUPER-500	REV. 1	
WEIGHT:		SHEET 1 OF 1	

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MIFAB®			
TITLE: 100GPM HDPE GREASE INTERCEPTOR			
SIZE: C	DWG. NO. SUPER-500	REV. 1	
SCALE:	WEIGHT:	SHEET 1 OF 1	