



CITY OF TULSA
PLUMBING PERMIT APPLICATION
GREASE INTERCEPTOR/SEPARATOR

Date: _____
A/P#: _____

CONSTRUCTION ADDRESS	
OWNER'S NAME	
BUSINESS/RESTAURANT NAME	

Account Number _____ Number of Plans _____ Number of pages of one set of plans and specifications _____

Contractor _____ Address _____

City _____ State _____ Zip _____ Phone Number _____

New Construction: Y N

GREASE INTERCEPTOR	NEW: _____	REPLACEMENT: _____
OIL SEPARATOR	NEW: _____	REPLACEMENT: _____

THIS IS NOT A PERMIT; A LICENSED PLUMBER MUST OBTAIN THE PERMIT.
UPON APPROVAL OF THIS APPLICATION PLEASE GIVE THE APPLICATION NUMBER TO YOUR PLUMBER TO OBTAIN THE PERMIT.



CITY OF TULSA
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT
DEVELOPMENT SERVICES DIVISION

The Following Information Must Accompany Your Application for Grease Interceptor Before The Application Will Be Issued.

- _____ 1) Two Detailed Drawings of all grease-laden waste lines. Identify all fixtures and receptacles including line sizes and trap sizes.
- _____ 2) A Factory Data Sheet describing fully the Grease Interceptor proposed to be installed. Installation instructions will be requested to be viewed at the time of the inspection on the jobsite.
- _____ 3) All fixtures or receptacles discharging into the grease system will be sized according to the Guidelines set forth by the Factory Data Sheets. Show your entire math in detail with complete load calculations. Your proposed PDI-approved interceptor must be sufficiently sized to accommodate the load demanded.

When your plans are approved and permit numbers issued you may then proceed with installing your designed grease retention system. Be sure a copy of your approved plans is on the jobsite at the time of the inspection.

See attached information for sizing formula and example.

INTERCEPTORS

GREASE INTERCEPTORS SIZING – PDI SIZING METHOD

Table A1.2 – Sizing and Rating

PDI Size Symbol		4	7	10	15	20	25	35	50
Flow Rate	GPM	4	7	10	15	20	25	35	50
	L/s	0.25	0.44	0.63	0.95	0.95	1.26	1.58	3.16
Grease Capacity	Lbs.	8	14	20	30	40	50	70	100
	Kg	3.6	6.4	9.1	13.6	18.2	22.7	31.8	45.4

A1.3 Sizing Procedure

Table A1.3 is provided to show the standard formula in steps for sizing grease interceptors to suit requirements of specific fixtures. An example of this sizing formula is included to illustrate the steps.

Table A1.3 – Procedure for Sizing Grease Interceptor

STEPS	FORMULA	EXAMPLE
1	Determine cubic content of fixture by multiplying length x width x height.	A sink 48" long by 24" wide by 12" deep. Cubic content = $48 \times 24 \times 12 = 13,824$ cubic inches.
2	Determine capacity in gallons. 1 gallon = 231 cubic inches.	Content in gallons = $13,824 / 231 = 59.8$ gallons.
3	Determine actual drainage load. The fixture is normally filled to about 75% capacity with water (The items being washed displace about 25% of the fixture content, thus drainage load = 75% of fixture capacity.)	Actual drainage load = $0.75 \times 59.8 = 44.9$ gallons.
4	Determine flow rate and drainage period. In general, good practices dictate a one-minute drainage period; however, where conditions permit, a 2-minute drainage period is acceptable. Drainage period is the actual time required to completely drain the fixture. * Flow rate = Actual Drainage Load/Drainage Period.	Calculate flow rate for one minute period: $44.9 / 1 = 44.9$ Gallons per Minute (GPM) Calculate flow rate for two minute period: $44.9 / 2 = 22.5$ GPM
5	Select interceptor. From Table A1.2, select interceptor which corresponds to the flow rate calculated. Note: Select next larger size when the flow rate falls between two listed sizes.	For one minute period: 44.9 GPM requires PDI size 50" For Two minute period: 22.5 GPM requires PDI size 25"

***Important Note: Two-minute detention time is not allowed in the City of Tulsa.**

Table A1.4 Selection Chart

Table A1.4 is included as a selection chart for standard PDI Certified grease interceptors applicable to various sized fixtures commonly used in domestic, commercial and institutional installations. The selections listed are based on the sizing formula covered in Table A1.3.

Fixture Compartment Size (inches)	Number of Compartments	Drainage Load (Gallons)	Recommended PDI Size Grease Interceptor	
			One-minute Drainage Period	Two-minute Drainage Period*
18x12x6	1	4.2	7	4
16x14x8	1	5.7	7	4
20x18x8	1	9.4	10	7
18X16X8	2	15.0	15	10
20x18x8	2	18.7	20	10
30x20x8	1	15.5	20	10
24x20x12	1	18.7	20	10
22x20x8	2	23.0	25	15
22x20x12	2	34.0	35	20
24x24x12	2	44.9	50	25

***Important Note: Two-minute detention time is not allowed in the City of Tulsa.**