



# WRA Grease Interceptor Sizing Proposal



Date:   M/D/YY    
 Facility Name:   Restaurant Generic    
 Address:   123 Generic Street   City:   Des Moines Metropolitan City    
 Contact Name and Title:   General Engineering Group    
 Phone:   (515) 555-5555   Email:   ProjectManager@generalengineering.com    
 Contact Address (if different):   123 Engineering Road, Des Moines, IA    
 Plumbing Contractor:   XYZ Plumbing Company  

### Type of Food Service Establishment (FSE)

- Full Service Restaurant     Assisted Living / Nursing Facility     Other: \_\_\_\_\_  
 Single Service Restaurant     Grocery     Church     School / Daycare

### Grease Interceptor Sizing – **Must not be less than the Ordinance minimum of 1000 gallons.**

#### 1. Peak Meals per Hour (if unknown use formula below)

Seating Capacity or Occupancy of FSE*	X	Meal Factor**	=	Peak Meals per Hour
<b>50</b>		<b>1.3</b>		<b>65</b>

- \* Church: include all area(s) used for meal service
- \* Assisted Living / Nursing Facility: equal to max number of residents (per State license)
- \*\* Meal Factor: 1.3 (for 45-minute meal) or 1.0 (for intermittent use FSE)

#### 2. Waste Flow Rate

- a. Commercial, equipped kitchen with dishwasher & one garbage disposal\*    7
- b. Commercial, equipped kitchen with dishwasher, no garbage disposal    6
- c. Commercial, equipped kitchen with no dishwasher, one garbage disposal\*    6
- d. Commercial, equipped kitchen with no dishwasher, no garbage disposal    5
- e. Single service kitchen\*\*    2
- \* Each additional garbage disposal, add one (1) gallon
- \*\* Single service kitchen = no garbage disposal, no dishwasher and all service is single use

#### 3. Retention Time

- a. Commercial kitchen    2.5
- b. Single service kitchen    1.5

#### 4. Storage Factor

- a. Commercial kitchen up to 8 hours of operation    1
- b. Commercial Kitchen up to 12 hours of operation    1.5
- c. Commercial kitchen up to 16 hours of operation    2
- d. Commercial kitchen up to 20 hours of operation    2.5
- e. Commercial kitchen up to 24 hours of operation    3
- f. Single service kitchen    1.5

Peak Meals per Hour	X	Waste Flow Rate	X	Retention Time	X	Storage Factor	=	Calculated GI Size
<b>65</b>		<b>5</b>		<b>2.5</b>		<b>2</b>		<b>1,625</b>

Proposed installation is as follows:   Install one 2,000-gallon grease interceptor  

### The following must be submitted for an official sizing request:

- Completed *Grease Interceptor Sizing Proposal* (completed by a professional engineer or licensed plumber)
- Kitchen plumbing blueprint
- Kitchen equipment list
- FSE site plan showing seating capacity OR square feet / occupancy
- Verification of current Grease Interceptor size by a professional engineer or licensed plumber (if applicable)

Submit to: Jason Merk, WRA FOG Program (515) 323-8063 (fax) OR [jcmerk@dmgov.org](mailto:jcmerk@dmgov.org)

Des Moines Metropolitan Wastewater Reclamation Authority  
 3000 Vandalia Road, Des Moines, IA 50317, (515) 323-8000