

## Grease Interceptor (Trap) Check List - City of Dubuque

Please return completed & signed form (Licensed Plumber) prior to installation, to the Water & Resource Recovery Center,  
795 Julien Dubuque Drive, Dubuque, IA 52003. **Fats, Oils and Grease Permits are not valid until the completed form is received by the City of Dubuque.**

Interceptor Sized per - (please check one):

  


**Plumbing & Drainage Institute**  
**Uniform Plumbing Code, Chapter 10**

Please indicate type and size:

**Hydro-Mechanical Interceptor Sizing Using Gravity Flow Rates :**

Size of Grease Interceptor

	Diameter of Grease Waste Pipe	Maximum Full Pipe flow (gpm)*	One-Minute Drainage Period (gpm)	Two-Minute Drainage Period (gpm)
<input type="checkbox"/>	2"	20	20	10
<input type="checkbox"/>	3"	60	75	35
<input type="checkbox"/>	4"	125	150	75
<input type="checkbox"/>	5"	230	250	125
<input type="checkbox"/>	6"	375	500	250

\*1/4" (.240) slope per foot based on Manning's formula with friction factor N = .012

**Gravity Grease Interceptor Sizing:**

	<u>DFUs (1,3)</u>	<u>Interceptor Volume (2)</u>
<input type="checkbox"/>	8	500 gallons
<input type="checkbox"/>	21	750 gallons
<input type="checkbox"/>	35	1,000 gallons
<input type="checkbox"/>	90	1,250 gallons
<input type="checkbox"/>	172	1,500 gallons
<input type="checkbox"/>	216	2,000 gallons
<input type="checkbox"/>	307	2,500 gallons
<input type="checkbox"/>	342	3,000 gallons
<input type="checkbox"/>	428	4,000 gallons
<input type="checkbox"/>	576	5,000 gallons
<input type="checkbox"/>	720	7,500 gallons
<input type="checkbox"/>	2112	10,000 gallons
<input type="checkbox"/>	2640	15,000 gallons

(1) The maximum allowable DFUs plumbed to the kitchen drain line that will be connected to the grease interceptor.

(2) This size is based on: DFUs, the pipe size from this code; Table 7-5, Useful Tables for flow in half-full pipes (ref: *Mohinder Nayyar Piping Handbook, 3rd Edition, 1992*) Based on 30-minute retention time (ref.: George Tchobanoglous and Metcalf & Eddy. *Wastewater Engineering Treatment, Disposal and Reuse, 3rd Ed. 1991* & Ronald Crites and George Tchobanoglous *Small and Decentralized Wastewater Management Systems, 1998*) Rounded up to nominal interceptor volume.

(3) When the flow rate of directly connected fixture(s) or appliance(s) have no assigned DFU values, the additional grease interceptor volume shall be based on the known flow rate (gpm) multiplied by 30 minutes.

**\*\*Note:** per PDI (The Plumbing and Drainage Institute), Gravity Interceptor size can be determined by flow rate in gallons per minute (gpm). To size a Gravity Interceptor with the flow determined in GPM, you simply multiply the flow number by a detention time, 30 minutes (the time period normally accepted for the grease to separate by buoyancy). With a 20 GPM example, the size would be 20X30= 600. A 600 gallon size interceptor should be used.

**Plumber:** \_\_\_\_\_ **Signed:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**\*\*Please carefully consider the required maintenance aspect of the F.O.G. program when choosing an interceptor in close consultation with your customer and your supplier. The F.O.G program includes a mandatory pump-out and reporting component. All interceptors will be subject to a cleaning schedule and a pass/fail 25% rule (max % of combined liquid and solids captured as a percentage of total liquid depth).**