

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 :

Diameter of Grease Waste Pipe	Maximum Full Pipe flow (gpm)*	One-Minute Drainage Period (gpm)	Size of Grease Interceptor	Two-Minute Drainage Period (gpm)
2"	20	20		10
3"	60	75		35
4"	125	150		75
5"	230	250		125
6"	375	500		250

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

Gravity Grease Interceptor Sizing:

DFUs (1,3)	Interceptor Volume (2)
8	500 gallons
21	750 gallons
35	1,000 gallons
90	1,250 gallons
172	1,500 gallons
216	2,000 gallons
307	2,500 gallons
342	3,000 gallons
428	4,000 gallons
576	5,000 gallons
720	7,500 gallons
2112	10,000 gallons
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 $20 \times 30 = 600$. 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).**