



Pr9247 - Trade Waste Grease Arrestor Sizing Guidelines

Document Owner	Manager Customer Service
Document Author	Customer Compliance Team Leader
References to internal or external documents this procedure relies upon or satisfies	<i>Water Supply (Safety and Reliability) Act 2008</i> <i>South East Queensland (Distribution and Retail Restructuring) Act 2009</i> <i>WSAA NATIONAL GUIDELINE FOR MANAGING FOOD, FATS, OILS & GREASE (FFOG) FROM FOOD PREMISES</i> https://www.wsaa.asn.au/shop/product/31151
References to other documents or resources that gives effect or is associated with this procedure	OP8136 - Trade Waste Policy OP8700 - Trade Waste Management Plan

1. Purpose

The purpose of this Procedure is to describe the guidelines used by Unitywater to size grease arrestors.

2. Scope

This procedure relates to sizing of grease arrestors for businesses discharging an industry standard wastewater.

3. Responsibilities and Authorities

Unitywater Trade Waste Section is responsible for:

- Assessing applications for discharging trade waste into the sewerage system; and
- Checking hydraulic plans for compliance with trade waste management plans, policies, procedures, guidelines and Terms & Conditions.

4. Definitions

All terminology used within this document is consistent with definitions in the Unitywater Glossary.

5. Sizing Guidelines & Sizing Table

- Guideline allocations are for peak hourly flow for grease arrestor sizing, and/or methods of grease arrestor sizing outlined in WSAA FFOG Guidelines (Oct 2018).
- Minimum size grease arrestor 1000 litres, unless otherwise approved by Trade Waste Manager.
- Grease arrestors with a capacity greater than 5000 litres will be assessed on a site by site case.



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- The maximum capacity that may be considered on a site by site case is 10000 litres.

All concrete grease or silt arrestors are to be protected by an internal acid resistant protective coating that is installed during the manufacture of the arrestor and prior to the delivery and installation of the arrestor.

* In addition to the fixtures and fittings peak flow sizing method listed below, other sizing methods may be incorporated from WSAA FFOG Guidelines for new trade waste installations.

FIXTURES/FITTINGS	CAPACITY (L)
Bain Marie - water heated	Maximum capacity of the apparatus x 3
Bin Wash / wet garbage	Install in floor self-closing dry bucket arrestor trap. Installation of a grease arrestor no longer required
Floor Waste / Bucket Trap / Grated Strip Drain	50...Every 50 square metres of floor area or part thereof...plus any listed connected apparatus
Sealed Floor Waste Gully	0...plus any listed connected apparatus
Cleaners Sink	30
Dishwasher – large (>1 outlet)	Manufacturer's peak flow rate per hour x 3
Dishwasher – medium (upright)	300
Dishwasher – small (under bench)	150
Glass Washer - tunnel feed	Manufacturer's peak flow rate per hour x 3
Glass Washing Machine	150
Grease Canopy (water cleaned)	50
Hand Basin	30
Ice Cream Machine Soft Serve	60
Lab Sink (commercial or research laboratory)	50
Lab Sink (educational facility)	22
Noodle Cooker	100
Potato Peeler – large commercial application	Manufacturer's peak flow rate per hour x 3
Potato Peeler – small kitchen application (bench type)	100
Rotisserie Rack	100
Steamer Roast Oven / Combi Oven	40 litres per rack a) Usually a grease arrestor with a minimum capacity of 2000 liters is required b) Depending on site characteristics an existing Grease arrestor that can accommodate the extra volume and still have 50% of its capacity utilized may be acceptable (will be assessed by Unitywater on a site by site basis) c) In some instances, multiple pre-treatment technologies may be utilized (will be assessed by Unitywater on a site by site basis) d) In some instances, a site inspection and/or discussion with Unitywater's Trade Waste staff may be beneficial
Electric or Gas /Steamer Cooker / Kettle	200
Sink - Utility / Pot per outlet connected separately to drain (depth greater than 300mm)	300
Sink – Single Bowl (depth up to and including 300mm)	150
Trough greater than 4 taps	Refer to trade waste section for advice



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FIXTURES/FITTINGS	CAPACITY (L)
Tundish Condensate (refrigerator / freezer condensate)	3
Tundish (except refrigerator / freezer condensate)	10...plus any listed connected apparatus
Wok Burner Dry	30...per water arm
Wok Burner Wet	Manufacturer's peak flow rate per hour x 3