

Trade waste

Sizing grease and oil arrestors

The requirements described in this guideline apply to all new or replacement grease and oil arrestors installed in connection with our sewerage system after 1 January 2014.

Requirements

For new or replacement grease and oil arrestors the minimum size is 1000L and the maximum size is 5000L.

Where constraints exist, Queensland Urban Utilities may, at its sole discretion, provide written consent to arrestor sizing if a request and justification is made in writing by a qualified hydraulic consultant or other suitably qualified person representing the applicant (use application for Trade Waste Consent available on our website www.urbanutilities.com.au).

- Grease and oil arrestors must be sized to provide a minimum of one hour retention at peak hourly trade waste flow.
- The peak hourly trade waste flow should be calculated using the total of the guideline flows attributable to each trade waste generating fixture (see over page).
- Alternative peak hourly flow estimates may be accepted where a qualified hydraulic engineer attests to the peak flow and design (thereby providing a performance guarantee for the system design and taking responsibility for any failure to meet sewer acceptance criteria).
- Where tenancy occupiers are unknown (i.e. new set of shops), the minimum grease arrestor sizing requirements are as follows:
 - minimum grease arrestor capacity allocation for the 1st connected tenancy is 1000L, and
 - minimum grease arrestor capacity allocation for each additional tenancy shown as connected to trade waste is 500L, unless the applicant provides documentation with submitted hydraulic plans justifying an alternative pre-treatment allowance.

Existing non-compliant grease and oil arrestors need not be replaced retrospectively, except where (at our discretion) the system is causing a negative impact on the sewerage system.

Correct arrestor sizing based on peak hourly flow

Queensland Urban Utilities' method of sizing allows a minimum of one hour detention within the arrestor based on estimated peak hourly trade waste flows. To estimate the peak hourly trade waste flow within a trade waste generating area, sum the peak hourly flow allowances (from the table below) for all fixtures draining from the relevant area.

We will accept calculations made using this method without any additional attestation or justification by your hydraulic consultant.

FIXTURE/FITTING TYPE	PEAK HOURLY FLOW ALLOWANCE
Bain marie - water heated	Use maximum capacity of the apparatus x 3
Bin wash	Install in-floor self-closing dry bucket arrestor trap Installation of a grease arrestor is not required
Floor waste / bucket trap / grated strip drain	50L/hr for every 50m ² of floor area, or part thereof Add allowance for any listed connected apparatus
Sealed floor waste gully	0L/hr Add allowance for any listed connected apparatus
Cleaners' sink	30L/hr
Dishwasher - tunnel feed*	Use manufacturer's peak flow rate per hour x 3
Dishwasher - large (>1 outlet)*	Use manufacturer's peak flow rate per hour x 3
Dishwasher – medium (upright)*	300L/hr
Dishwasher – small (under bench)*	150L/hr
Glass washer - tunnel feed	Use manufacturer's peak flow rate per hour x 3
Glass washing machine	150L/hr
Grease canopy (water cleaned)	50L/hr
Hand basin	30L/hr
Ice cream machine soft serve	60L/hr
Laboratory sink (commercial or research lab)	50L/hr
Laboratory sink (educational facility)	22L/hr
Noodle cooker	100L/hr
Potato peeler (large commercial application)	Use manufacturer's peak flow rate per hour x 3
Potato peeler (small kitchen application)	100L/hr
Rotisserie rack	100L/hr
Steamer Roast Oven / Combi Oven	1000L + 40 L/hour per rack. 3000L grease arrestor minimum size for high use Combi ovens (i.e. supermarkets, fast food chains).
Electric or gas /steamer cooker / kettle	200L/hr
Sink - utility / pot per outlet connected separately to drain (depth greater than 300mm)	300L/hr
Sink – single bowl (depth up to and including 300mm)	150L/hr
Sink – double bowl (depth up to and including 300mm fixture pair connection)	300L/hr
Trough up to 4 taps	40L/hr
Trough greater than 4 taps	Refer to trade waste section for advice
Tundish- condensate (refrigerator / freezer condensate)	3L/hr
Tundish- other (except refrigerator condensate)	10L/hr Add allowance for any listed connected apparatus
Wok burner –dry	30L/hr per water arm
Wok burner –wet	Use manufacturer's peak flow rate per hour x 3

* For dishwashers generally, do not connect to arrestor, but if unavoidable or impractical these sizings apply.

Example calculation

The following table describes a trade waste generating area with typical fixtures draining to a grease arrestor:

Example Information Schedule (required on hydraulic plans with grease or oil arrestors)

Arrestor No.	Tenancy	Business Type	Fixtures	Qty	Peak Hourly Trade Waste Flow (L/hr) ¹	Arrestor Capacity (L) ²
BW2635	1	Takeaway	Floor waste (50m ²)	1	50	
			Hand basin	1	30	
			Double bowl sink	2	600	
			Cleaner's sink	1	30	
			Total		710	

Notes about example:

1. Peak hourly flows are obtained from this guideline.
2. Total of peak hourly flows for fixtures is 710L/hour, but minimum arrestor capacity is 1000L.
3. When using this Queensland Urban Utilities endorsed method, it is not necessary to make any additional allowances.

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