

26. GREASE TRAP SIZING AND INSTALLATION GUIDE

Peak hourly flow

Add the flow ratings for all fixtures listed below entering the arrester. This figure will provide the generator with the minimum sized grease arrester needed to satisfy the one hour retention requirement. Chose the nearest (equal to or larger) available arrester size.

FIXTURES & FITTINGS	CAPACITY (L)
Bain Marie Water heated	Use maximum capacity of apparatus x 3
Bin Wash/Wet Garbage	500
Cleaners Sink	140
Combi Oven (small to medium kitchens)	300 – 600 (assessment required)
Combi Oven (continual daily use, i.e. supermarkets, fast food chains)	3000L grease arrester minimum size + 40lts per rack
Dishwasher – Large (>1 outlet)	manufacturers peak hourly flow rate x 3
Dishwasher – Medium (Upright)	300
Dishwasher – Small (Under Bench)	150
Display Cabinet	30
Floor Waste	50
Grated Strip Drain	50 litres per metre
Greasy canopy (water cleaned)	50
Hand Basin	30
Noodle Cooker	100
Potato Peeler - Large	manufacturers peak hourly flow rate x 3
Potato Peeler – Medium (Upright)	200
Potato Peeler – Small (Bench Type)	100
Prover	400
Rotisserie Rack	100
Salamander	50
Sink – utility/pot per outlet connected separately to drain (Depth >300mm)	300
Sink – Single Bowl (Depth <300mm)	150
Sink – Double Bowl (Depth <300mm) Fixture pair	300
Trough	35
Tundish (other than refrigerant condensate)	10 plus any other listed connected apparatus
Wok burner dry	30 per arm
Wok burner wet	manufacturers peak hourly flow rate x 3

Takeaway restaurants e.g. Chain Franchises – Minimum 2,000 litres

Specification of arresters

Where an Arrester is required to pre-treat waste before its discharge to the Sewerage System the Arrester shall be of a Council approved design and capacity.


All Arrestors installed shall comply with the following:

- (a) be not less than 1,000 litres in capacity (unless approved otherwise by Council); and
- (b) be vented with a 100mm induct vent and a 100mm educt vent; and
- (c) have gas tight lids; and
- (d) be fitted with sample points with 100 mm diameter access covers on the inlet and outlet of the Arrester; and
- (e) be provided with a hose tap fitted with a backflow prevention device (RPZD) within 5 metres of the Arrester for cleaning purposes; and
- (f) have a capacity below the invert of the outlet of the Arrester at least twice the total capacity of the appliances and fixtures connected to the Arrester or, a larger capacity if required by the Council; and
- (g) have a distance from the top of the Arrester to the outlet that is at least half the depth of the Arrester below the outlet invert; and
- (h) have the outlet invert level of the Arrester at least 50 mm below the inlet invert level; and
- (i) all floor waste gullies and preparation sinks prior to the pre-treatment device will be fitted with self-closing bucket traps or similar.
- (j) All concrete grease or silt Arrestors are to be protected by an internal acid resistant protective coating that is:
 1. installed:
 - i. during the manufacture of the Arrester; and
 - ii. prior to the delivery and installation of the Arrester; and
 2. comprised of:
 - iii. a spray-on protective coating; or
 - iv. an epoxy protective coating; or
 - v. a liner made from a durable material.
- (k) Where it is intended that several trade waste generators share the use of a grease arrester, the following information is required to be clearly tabled on the plan submitted with the application for approval:
 - the size of the arrester;
 - details of the loading to be discharged by each trade waste generator;
 - the names of the businesses and shop number(s) sharing the arrester.
 - the responsibility of each individual party towards:
 - pro-rata payment of the appropriate charges; and

- any non-compliance and the rectification thereof.
- (l) Grease arrestors must be located so as to allow appropriate access for inspection and servicing requirements. Council must approve the location prior to installation.
- (m) Where a grease arrestor is unable to be located in an accessible area for servicing, a suitable pump out line must be installed.
- (n) Grease arrestors that need to be installed internally must be located in a suitably sealed, vermin proofed room with mechanical ventilation. The room must have external access only and be completely sealed from food preparation areas. A hose cock and remote servicing pipe must be located within the room. The door of the room must remain closed when the grease arrestor is being serviced.
- (o) Remote servicing pipes for pre-treatment equipment must be minimum 80mm diameter. The pipe inlet at the device end must be positioned above the device and be complete with a cam lock fitting. The suction end of the pipe should be easily accessible and fitted with a male cam lock fitting.
- (p) Grease arrestors installed in restricted areas must satisfy the following requirements:
 - The minimum clear height above the top of the arrestor lids and the underside of the floor slab, or concrete thickening beam or any other obstruction should be 1500mm minimum for gastight screw on light duty lids and 1800mm minimum for gastight covers and frame.
 - A safe working platform may be required adjacent to the arrestor to enable the gastight covers to be removed from the frame. The walkway floor of the platform should be a minimum of 2100mm clear of the underside of the floor slab, or concrete thickening beam or any other obstruction.
- (q) Grease arrestors located in basements or confined spaces under a building must have remote servicing pipes for pre-treatment equipment. The service pipe must be minimum 80mm diameter. The pipe inlet at the device end must be positioned above the device and be complete with a cam lock fitting. The suction end of the pipe should be easily accessible and fitted with a male cam lock fitting.

Notes

- Garbage disposal units are not to be installed.
- Where Whitsunday Regional Council has approved businesses to share a grease arrestor, the minimum size of the grease arrestor shall be calculated based on the capacity of the total fixtures for all businesses to be connected to the arrestor.
- Consideration must be given to existing grease arrestors which are within 50 litres of grease arrestor sizing. **Pump out frequency must be followed as per standard approval conditions.**

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- Maximum size grease arrestor size allowed is 4000 litres. Where multiple grease arrestors are to be installed and each grease arrestor shall be a separate discrete flow to sewer.