

25. GREASE TRAP SIZING 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 |
| Dishwasher -Tunnel Feed | manufacturers peak hourly flow rate x 3 |
| 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) | 300 |
| Fixture pair | |
| 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) not be less than 1,000 litres in capacity (except for Bin Wash areas); 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 brass 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.

Notes

- Garbage disposal units are not to be installed.
- Where Whitsunday Regional Council has approved businesses to share a grease arrester, the minimum size of the grease arrester shall be calculated based on the capacity of the total fixtures for all businesses to be connected to the arrester.
- Consideration must be given to existing grease arrestors which are within 50 litres of grease arrester sizing. Pump out frequency must be followed as per approval.
- Consideration must be given to existing grease arrestors that are physically unable to be upgraded in size; implementation of good housekeeping practices, installation of a surge control device within the grease arrester, possible solution could be an increased pump out frequency, subject to Council discretion (not usually acceptable in the case where the trap is grossly undersized).
- Maximum size grease arrester size allowed is 4000 litres. Where multiple grease arrestors are to be installed and each grease arrester shall be a separate discrete flow to sewer.
- If an inspection by a trade waste officer reveals an undersized grease trap on site, samples must be taken at the businesses expense to establish if the current grease trap is breaching Councils discharge limits. If limits are breached the business will be required to either install or upgrade the trap to comply with the sizing policy