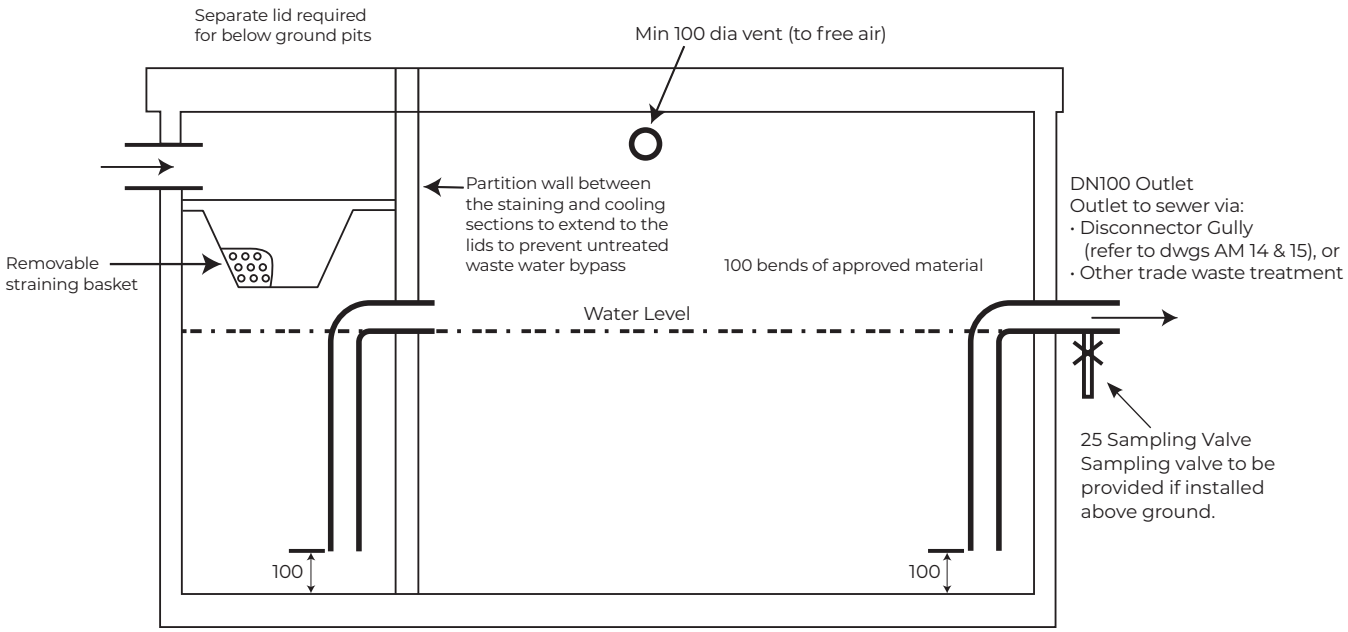

Notes:

1. Trade waste specification for connection to sewer.
2. The sample valve and disconnector gully are required for sampling purposes. Sealed disconnector gullies must be vented. Disconnector gully caps must be removable for sampling purposes.
3. Easy access to the basket is required for cleaning and maintenance purposes. The access covers must be capable of being removed by one person without the use of specialised tools.
4. All wastewater to flow through the basket and not over or around it.
5. GWW area; Contact GWW for clarification of when to use, or for additional information.
6. Before any trade waste apparatus is installed it must be reviewed and accepted by the SEW / YVW / GWW trade waste team, and subsequently included in a Trade Waste Agreement or Consent.
7. Usages; coin laundrettes, aged care laundrettes, small laundries.
8. All dimensions in millimetres (mm) unless specified otherwise.

Basket specification

9. Basket to be of a size and weight that cab be readily lifted out by one person for cleaning. Positioning of basket to be such that all untreated waste water passes though it. Elevated run off metal plates to be constructed to ensure that untreated waste water is directed into the basket and does not bypass it. Multiple baskets may be fitted next to each other to achieve this outcome.
10. Basket to be constructed of 2.5mm (min) diameter mild steel wire woven to give 7mm aperture widths on a 32 x 32 x 3 angle iron frame with mitred corners having a similarly constructed and robust handle.
11. Top to be welded to angle iron frame. Basket to be galvanised after manufacture.
12. Alternatively the basket maybe constructed from 3mm min, thick mild steel plate with 6mm diameter holes at 12mm centres over the entire area of the basket. The basket to be galvanised after manufacture.
13. Basket must be cleaned on a regular basis to remove lint.

Above ground installations

14. Full width lids must be installed to enable easy access to the entire chamber for maintenance purposes. The lids must be air tight and easy enough for one person to remove. Any variation to this must be obtained from Trade Waste prior to the installation of the interceptor. The maximum distance between each lid allowed is 1000mm. Extra lids will be required to fulfil this requirement. Fixing screws or the like cannot be used on lids unless approved by Trade Waste.
15. All penetrations into the tank must be properly sealed using products approved by the manufacturer of the interceptor.
16. Tanks can be installed partially submerged, however the disconnector gully on the outlet of the interceptor cannot be submerged.
17. Tanks must be positioned on a concrete level base.
18. Tanks must not be positioned in direct sunlight unless they are constructed of UV stable material. Interceptors manufactured from concrete are exempt from this requirement.
19. Tanks must be externally braced to prevent / limit outward bowing.

Combined straining and cooling tank/pit

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Below ground installations

20. Gatic style lids are compulsory. Full width lids must be installed to enable easy access to the entire chamber for maintenance purposes. The lids must be air tight and easy enough for one person to remove. Any variation to this must be obtained from Trade Waste prior to the installation of the interceptor. The maximum distance between each lid allowed is 1000mm. Extra lids will be required to fulfil this requirement. Lid lifting equipment to be acquired by the occupier to ensure ready access for cleaning of basket.
21. All penetrations into the interceptor must be properly sealed using cement based compounds.
22. Ground vents are not approved for use.
23. Tanks designed for above ground cannot be installed below ground.
24. Where a plastic tank is used for a below ground installation;

- it must be encased in 100mm concrete surround, and
- there must be NO inward bowing of the walls.

25. You must ensure all below ground plastic tanks are heavily braced internally prior to the pouring of the 100mm concrete surround to prevent inward bowing of the walls (refer to manufacturer's instructions). If the walls are found to have bowed the interceptor will need to be removed and re-installed.

Sizing formula:

26. This formula is only suitable for irregular low volume hot water discharges. It does not work for continuous hot water discharge. Other technologies like heat exchangers will need to be considered. The maximum permissible temperature of treated waste water at the Disconnector Gully is 38°C.

$$V = V_M + (V_M \times F) \qquad F = \frac{T_M - T_A}{T_A - T_C}$$

V = the minimum volume of the pit below the water level

V_M = estimated volume of hot water discharged at one time

F = the estimated factor

T_M = maximum temperature of hot water discharged into the pit

T_C = assumed temperature of cold water in the pit, say 20°C. (T_c will increase under repeated or continuous discharge conditions)

T_A = temperature of waste allowed into the sewer of 38°C

Example: to size a cooling pit or boiler blowdown pit to receive a discharge of 50 litres of hot water at 65°C, where the maximum permissible discharge temperature to sewer is 38°C, the temperature of the cold water in the cooling pit is 20°C.

$$F = \frac{65^{\circ}C - 38^{\circ}C}{38^{\circ}C - 20^{\circ}C} = 1.5$$

V = 50 litres + (50 litres x 1.5) = 125 litres

Therefore, the capacity of the cooling pit or boiler blow down pit should be 125 litres.

For more information contact the trade waste team on:
South East Water: **1300 634 712** or **tradewaste@sew.com.au**
Yarra Valley Water: **1300 771 865** or **commercialcustomercare@yvw.com.au**
Greater Western Water: **134 449** or **tradewaste@gww.com.au**

Combined straining and cooling tank/pit

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