



Notes:

Basket specification

1. 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
2. Top to be welded to angle iron frame. Basket to be galvanised after manufacture.
3. 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.
4. Basket must be cleaned on a regular basis to remove lint.

Temperature

5. Temperature of discharge not to exceed 38 degrees celsius.

Below ground installations

6. 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.
7. All penetrations into the interceptor must be properly sealed using cement based compounds.
8. Ground vents are not approved for use.
9. Tanks designed for above ground cannot be installed below ground.
10. Where a plastic interceptor 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.

You must ensure all below ground plastic interceptors 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.

Straining and cooling pit

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Above ground installations

11. 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.
12. All penetrations into the tank must be properly sealed using products approved by the manufacturer of the interceptor.
13. Interceptors can be installed partially submerged, however the disconnecter gully (DG) on the outlet of the interceptor cannot be submerged.
14. Tanks must be positioned on a concrete level base.
15. 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.
16. Tanks must be externally braced to prevent / limit outward bowing.

Sizing formula:

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

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_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.

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

$$V = 50 \text{ litres} + (50 \text{ litres} \times 1.5) = 125 \text{ litres}$$

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

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