

IN-GROUND OIL INTERCEPTORS

SINGLE OR TWO STAGE CONCRETE SUMPS

APPLICATIONS

Oily wastes and rainwater run-off streams at power stations, rail yards, maintenance depots, transport depots, industrial sites, waste treatment facilities, oil storage sites and onshore bilge and ballast treatment. In fact, any place where free oil contamination is a problem. The units may be used as pre-treatment to further processes such as dissolved air flotation or biological treatment and should be selected where especially stringent effluent requirements have been specified, in environmentally sensitive areas or where the risk of oil contamination to further processes would have significant effects.

OPTIONS & ACCESSORIES

The design of new in-ground units enables various features to be incorporated that may benefit operation of the system. These include: - Storm water bypass channel, Vortex Pipes for storm water flow, clarified water pumping well, handrail, sump access ladders, open grid or chequer plate flooring panels over the sump, walkway platforms over the sump for access, sludge discharge pipes,

A range of complementary equipment is also available to facilitate installation and operation including: feed pumps, recovered oil pumps, clarified water pumps, level switches, oil in water monitor, pack removing frame and control equipment for motors and other ancillary items.

PERFORMANCE

The system is designed to capture 100% of 50 micron oil droplets at s.g. 0.86 from water of s.g. 1.0. Typically, effluents are achieved in the range of 10 - 60ppm but the addition of a separate coalescing media stage can improve performance to 5ppm or less.

DESIGNS

Stetfield Separators can supply outline design drawings for the concrete sump for these in-ground units sufficient for a civil engineer to do the detailed design work and arrange the construction details for the sump. Please contact us to discuss individual applications. It is important to determine invert levels for new sumps.



In-ground system with Polypropylene plates housed in stainless steel casings

RANGE

The In-Ground kits are generally used for very high flow-rates or where concrete sumps already exist or where our Stetpack range cannot be used. Kits can be supplied for flow-rates from 2m³/h to 1,000m³/h or more.

The equipment utilises a patented corrugated plate arrangement for the first stage. This basic building block can be adapted to a wide variety of configurations and process designs.

See our Stetpack data sheets for details of fabricated steel units that can be installed above or below ground

REFURBISHING EXISTING SUMPS

We have considerable experience in the refurbishment of old concrete sumps. During the 1960's and 1970's many in-ground systems were built and constructed by CJB Developments of Portsmouth and by Environmental Engineering. CJB Developments ceased trading many years ago and we will be pleased to advise on the refurbishment or replacement of old plate packs, weirs, oil skimmers, flow baffle plates etc.

We have a team of engineers who are 'confined space' trained and experienced in this type of work. We can undertake full sump refurbishment projects including disposing of the oily water and removal of the old equipment using licensed waste contractors.



Badly corroded CJB Interceptor

Replacement pack support frame and plate pack



Replacement plate pack being lowered into position



New plate packs installed

FEATURES

Our standard packages include a readily accessible inlet coarse screening device (trash rack) with a screenings trough for water run-back, adjustable or fixed inlet weir, wormgear operated rotary oil discharge weirs/skimers, corrugated plate packs located in stainless steel cases complete with lifting bar for ease of removal. Corrugated plates are available in Polypropylene (as standard), GRP or Stainless Steel. Virtually all the component parts are manufactured in Stainless Steel as standard to ensure a long, trouble-free working life.

Where flooring is provided, special kerbing usually needs to be allowed for in the civil design and needs to be installed in conjunction with civil construction work.

All handrails and ladders are in accordance with current British Standards.

Whilst most units are expected to be installed in-ground, concrete tanks can be either partly or fully above ground.

In any in-ground system it is important that accurate information be provided on invert levels to ensure good hydraulic flow through the separator. The inlet and outlet connections can be adapted as required.



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