

# SERIES OS



## FUEL / OIL SEPARATOR

- ~ Improves effluent quality
- ~ Easy installation of packaged equipment
- ~ Simple, well-proven concept of reliability
- ~ No moving parts
- ~ Oil taken out of stream into separate compartment
- ~ Separate sludge compartment
- ~ Cheaper and more efficient than API Interceptors
- ~ Available with Magnetic Swarf Removal
- ~ Available with Auto-feed paper band particulate filtration

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## INTRODUCTION

Environmental legislation is imposing even tighter controls on all effluents. Particular emphasis is often placed on oil based contaminants. Some water authorities require 'no visible oil' in the effluents. The standard 3-stage brick built or similar interceptors are often unable to fulfil this requirement, particularly during storm conditions. The Kirton Fuel/Oil separator, unlike 3-stage interceptors, removes the oil products from the stream continuously, thus preventing the loss of oil during storm conditions. Also, during normal operations, the Kirton separator produces high quality effluent, enabling the site owner to comply with most effluent discharge limits.

## APPLICATIONS

The Kirton Fuel/Oil separator is particularly useful in garages, fuel/oil depots, vehicle wash sites, service stations, chassis cleaning, degreasing and dewaxing. It also has many applications in a wide variety of industrial and food applications. Rates of the standard range are from 1.65m<sup>3</sup> (360 galls) per hour to 270m<sup>3</sup> (60,000 galls) per hour, larger units are built to order and we offer a complete design service for any application. Tilted plate packs can be supplied to up-rate existing concrete interceptors.

## CONSTRUCTION

The main structure is fabricated from mild steel welded inside and out. The tank is then shot-blasted and finished with several coats of heavy epoxy paint. The plate pack is of molecular construction and plates are of HDPE, the unit comes without covers but these can be supplied if required. Installation is quicker than for a 3-stage interceptor and the unit can be installed above or below ground.

## EFFLUENT QUALITY

The Kirton Fuel/Oil Separator is designed to separate oil down to 60 microns for oil of specific gravity not exceeding 0.90.

## OPERATION

The waste water is fed into the first chamber where heavy solids are precipitated out. The effluent then passes through the tilted plate separator which is inclined at an angle. Here the small oil globules run up to the highest point in the corrugation under each plate. Here they coalesce forming larger oil globules which rise rapidly to the surface. Solids still present in the effluent collect on the upper side of the plates and gradually slide down the plates into the second chamber. The cleaned water then passes out to the drain. Separated oil is continuously skimmed into a collection tank where it can be drawn off for disposal. The accumulated sludge is removed as and when necessary.

## KIRTON OIL INTERCEPTOR UNITS

All units constructed in mild steel, shot-blasted and painted. Below Ground Units fitted with BST 'D' flanges or inlet and outlet pipes and given two coats of black epoxy paint, internally and externally. Above Ground Units fitted with inlet and outlet pipes to suit installation, lids if requested are given two coats internally of black epoxy paint and treated externally with two pack blast primer, one undercoat and one topcoat of heavy industrial glass paint.