
APPENDIX C

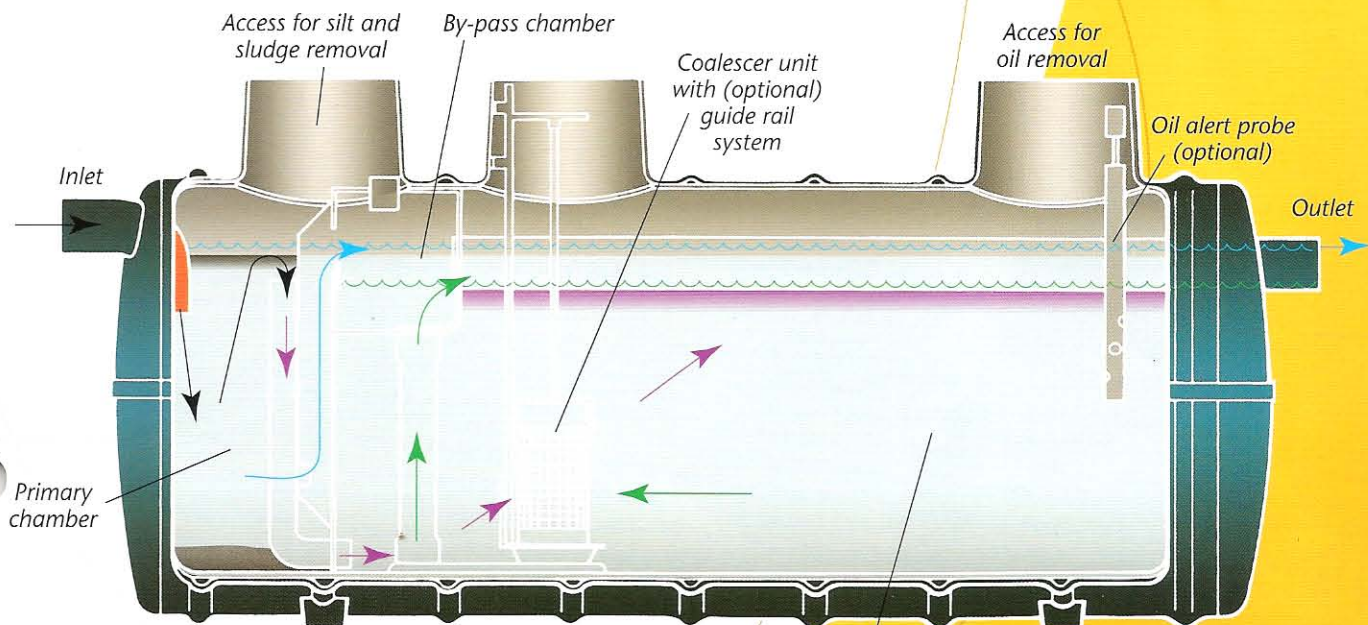
“SPEL Stormceptor” Treatment Unit Product Information

SPEL Stormceptor Class 1 By-Pass Separator



Class 1 Stormceptors are designed to achieve a concentration of less than 5mg/litre of oil under standard test conditions. A typical application would be the treatment of oil droplets contained in run-off which is reasonably predictable, ie medium risk. Applications would include industrial development sites and airport runways. These units incorporate the same by-pass system as the Class 2 unit but have the added advantage of stainless steel coalescer units with high volume reticulated foam inserts to achieve a lower oil concentration. The coalescers are incorporated into the main separation chamber and are easily removed for cleaning.

Class 1 Stormceptor used to treat stormwater run-off from a central business district before entering the river.

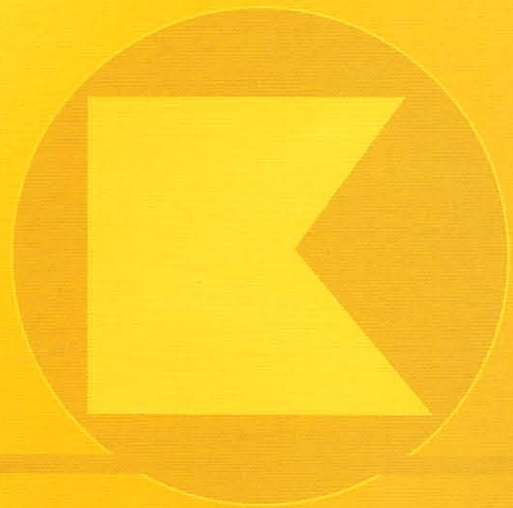


- Untreated water containing dirt & oil. Silt sinks to bottom
- Low Flow levels & direction
- Water containing oil. Oil floats to surface
- By-pass (high flow) levels & direction

Features

- Good access to all parts for desludging
- Large, fully accessible primary chamber for silt capacity and removal
- Dip pipe inlet for minimum turbulence and to prevent inflammable vapours passing upstream in drainage system
- Coalescer unit/s incorporated in the main separation chamber which reduces hydrocarbon to 5mg/litre or less
- Lifting cables for coalescer insert available as an optional extra
- Performs according to European Standard BS EN858-1
- High performance, low maintenance unit over a long life span
- Tank shell designed to conform to AS2634-1983
- Tank exterior has "flow coat" water penetration barrier

Quiescent zone





SPEL PRODUCTS

KWIKFLO SPEL Stormceptors and Puraceptors are an innovative, reliable and efficient way to protect our environment.

Leaks and spillages of oil and fuel are washed down drains every time it rains and, unless intercepted, find their way into water courses, polluting rivers, beaches and reservoirs. This can cause serious environmental damage and have a disastrous effect on plants and wildlife.

A substantial amount of oil pollution is collected on sites ranging from garage forecourts, large car parks and industrial estates to plant maintenance yards, fuel depots and transformer stations. To avoid the risk of prosecution, this waste water must be intercepted and treated.

The British Environment Agency has published Pollution Prevention Guidelines "Use and Design of Oil Separators in Surface Water Drainage Systems: PPG3". These set out the standards with which separators must comply and assist in deciding on the need for a separator at a site and the size and type that is appropriate.

The Pollution Prevention Guidelines PPG3 require separators to be tested in accordance with the standard test procedure based upon the European Standard BS EN 858-1:2002. This provides assurance that they will not only meet, but exceed all criteria set down by councils and water authorities regarding stormwater quality and waste water entering the sewer.

Broadly speaking the units are classified as treating low risk, medium risk and high risk applications, although there are frequently occasions where a particular application falls into more than one of these categories.

All units, from the Stormceptor Class 2 By-Pass, which is the base model, ie for low risk sites, through to the Puraceptor Full Retention, normally installed in high risk areas, feature excellent performance and low maintenance. Generously sized access manholes provide good access to all parts of the separator for desludging and oil removal.

Every unit is individually selected on the basis of the size of the catchment area, the anticipated maximum flowrate and the risk status. It may therefore be necessary to incorporate additional equipment such as oil skimmers, automatic alarm/monitoring systems, gross pollutant traps or additional storage tanks.

Stormceptors and Puraceptors are completely self-contained without power source requirements and thus operate normally in power failure.



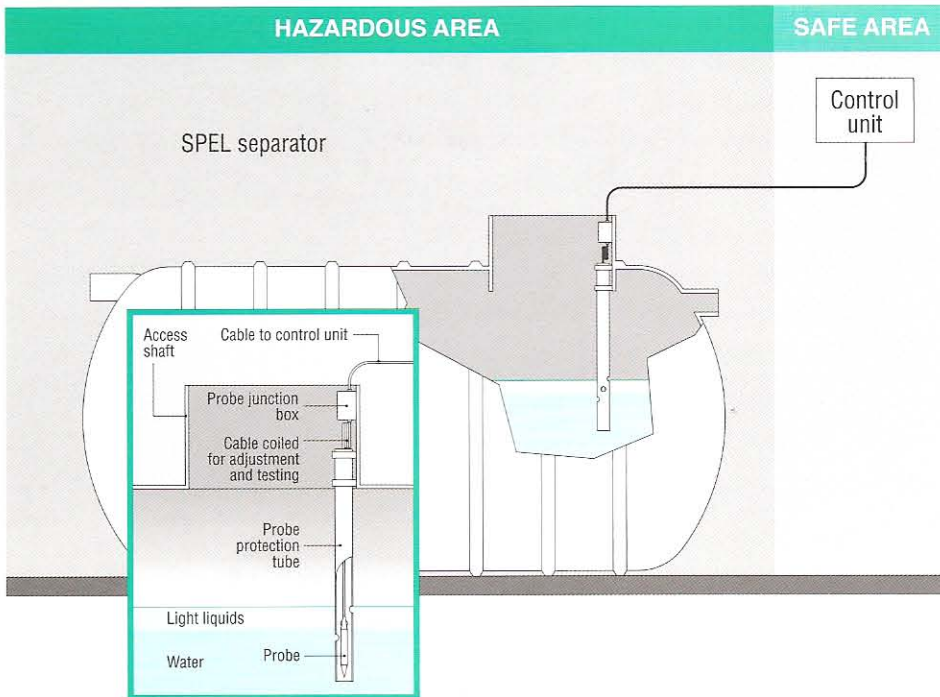
ALL PUMPS SALES AND SERVICE

83 Fennell Street Parramatta 2150

Ph: (02) 9683 5555 Fax: (02) 9630 0369



SPEL automatic alarm/monitoring system

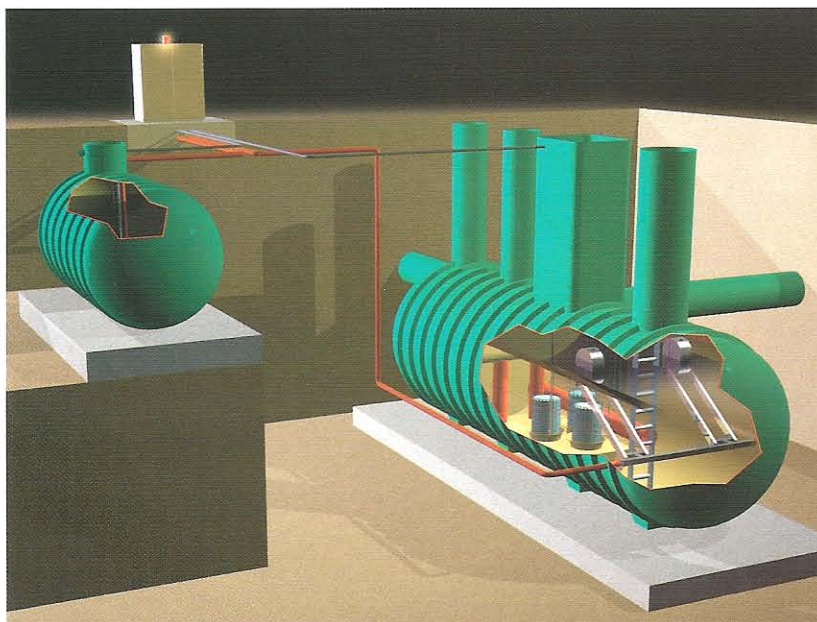


The SPEL automatic alarm/monitoring system provides a warning when the separator requires emptying of its contained pollutants.

The system comprises a probe mounted in the main separation chamber which senses when the designed maximum volume of light liquids has accumulated and passes a signal to the electronic control panel activating a flashing 'empty NOW' warning and an audible alarm.

The probe is placed into the factory-fitted probe protection tube for accurate on-site positioning. When separated oil reaches the pre-determined level covering the top of the probe, the circuit breaks and activates the alarm. It is a 'fail-safe' system with no moving parts.

The SPEL Econoskim system light liquid/containment system



SPEL Econoskim's advanced technology reduces maintenance costs by up to 90%

SPEL Stormceptor separators are being specified for large railway depots, industrial and commercial sites, with the SPEL Econoskim light liquid skimming and separate containment system. This maintains the units in peak performance and dramatically reduces maintenance costs.

Emptying is confined to removing sludge accumulated in the relatively small primary chamber and the light liquid pollutants from the containment tank. This involves far less volume than would be the case with a conventional system and therefore less costly. In some situations the light liquids have a recovery value.

The Econoskim system is available in manual or fully automatic form.