



Bypass separators fully treat all flows generated by rainfall rates of up to 6.5mm/hr. These separators are used when it is considered an acceptable risk not to provide full treatment for high flows, for example where only small spillages occur and the risk of spillage is small such as on short stay car parks.

FEATURES & BENEFITS

- Innovative design
- Small & easy to handle, easy to service
- Competitively priced & major installed cost savings
- Fully compliant to the Environment Agency's PPG3 guidelines
- Fully tested and verified with a range from CNSB 1.5 to CNSB 1000 (class 1&2) & full BSI certification
- Exceeds industry standards
- An Environment Agency verified manufacturer

APPLICATION AREAS:

- Car parks
- Roadways & major trunk roads
- Light industrial & goods yards
- Discharge to sensitive environment

ALARM SYSTEMS

According to the Environment Agency's PPG3 guidelines, all separators must be provided with a robust device to provide visual and audible warning (if necessary to a remotely located supervisory point) when the level of oil reaches 90% of the oil storage volume. This automatic warning device indicates that the separator is in need of immediate emptying for it to continue to work effectively. Morclean can supply a full range of visual and audible warning devices including: mains powered, solar powered alarms (with flashing beacon) or solar GSM (sends txt message to a mobile phone of your choice). Three probes are fitted in the separator to automatically monitor the oil, silt and liquid levels. The probes will also indicate exactly when the Separator needs emptying, eliminating unnecessary waste management visits. If site conditions permit, the control can be used to monitor multiple probes in a number of different separators.

MAINS POWERED SYSTEM - This option is best suited to new build situations or sites where installation of the necessary cabling and ducting is straightforward and economical.

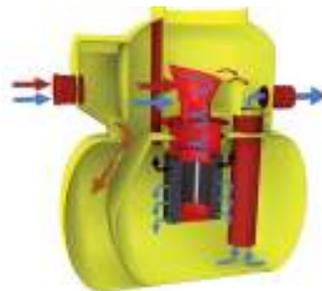
SOLAR POWERED SYSTEM - FLASHING BEACON - This option requires no mains power supply or any significant cabling and ducting making it economical for large sites and retro fitting alarms to existing oil separators. A High Intensity Beacon will flash when a problem is detected.

SOLAR GSM ALARM - The Solar GSM alarm sends a status report of your separator to a mobile phone number of your choice. The status of the GSM alarm can also be tested at any time by simply sending a pre-recorded text message via your dedicated mobile phone.

PROCESS & PERFORMANCE

The Morclean range of Bypass separators are designed to treat all of the flow up to the designed nominal size. Any flow in excess of the nominal size is allowed to bypass the separation chamber thus keeping the separated and trapped oil safe.

During the early part of a rain storm which is a time of high oil contamination, all of the contaminated water flow passes through a sediment collection chamber and enters the separation chamber through a patented oil skimming and filter device. This ensures that all of the oil proceeds to the separation chamber where it is separated to the Class 1 standard of 5 mg/l and safely trapped. As the rain storm builds up to its maximum and the level of oil contamination reduces significantly, the nominal size flow continues to pass through the separation chamber and any excess flow of virtually clean water is allowed to bypass directly to the outlet.



KEY

RED = Bypass flow path

BROWN = Silt

BLUE = Treated flow

BLACK = Oil separation