

Remediation

ECOVAC

The ECOVAC remediation unit has been developed and designed by Ecologia to allow rapid implementation of in-situ remediation following pollution incidents or at small sites.

Ecologia found a need for a small automated dual phase extraction system during its oil spill response work. The unit was required to be small enough to fit through a standard doorway and to run from a single 13 amp socket for rapid use at domestic properties. Ecologia have developed and improved the design since 2003 and now have a fully operational system that is manufactured in our workshop in Sittingbourne.

The ECOVAC unit is a vacuum extraction system for use with multiple of single phase extraction. When in use with multiple phases it is coupled with an air / water separation system and an oil / water separation system. The exhaust off gases are treated with an activated carbon filter. The ECOVAC system is ATEX compliant.

The system is capable of generating up to 800mb vacuum and is capable of operating up to 20 dual phase / SVE wells. In addition, the ECOVAC is fully automated and telemetrically controlled, allowing Ecologia's staff to dial to the unit on a daily basis from our offices to record extracted volumes, vacuum levels and general correct operation. This allows waste removal to be ordered precisely when required and maintenance to be carried out if a fault occurs.



ECOVAC in use



Typical ECOVAC dual phase extraction well

Ecologia have undertaken numerous remediation projects using ECOVAC's and we are able to respond very quickly. An example of the rapid response allowed by the ECOVAC is a project in the south west of England where Ecologia were operating a 7 well dual phase extraction system and recovering free phase oils 72 hours after inquiry and instruction.



ECOVAC control system



ECOVAC