

ENVirol™ by AFL

ENVirol™ oil removal cartridges, effectively taking total oils from oilfield produced and industrial waters.

The polishing out of trace hydrocarbons from partially processed water prior to discharge has always proved a difficult and costly exercise. Emulsions and the dissolved fraction can now be economically removed using the ENVirol™ filter cartridges as a polishing phase after existing oil removal technologies.

The cartridges come in many sizes to suit existing filter housings. Efficiency is retained at high flow rates. The foremost criteria in the development of the ENVirol™ filter media was to keep, or in some cases improve, the efficiency and reliability of existing cartridge systems but at a lower cost.

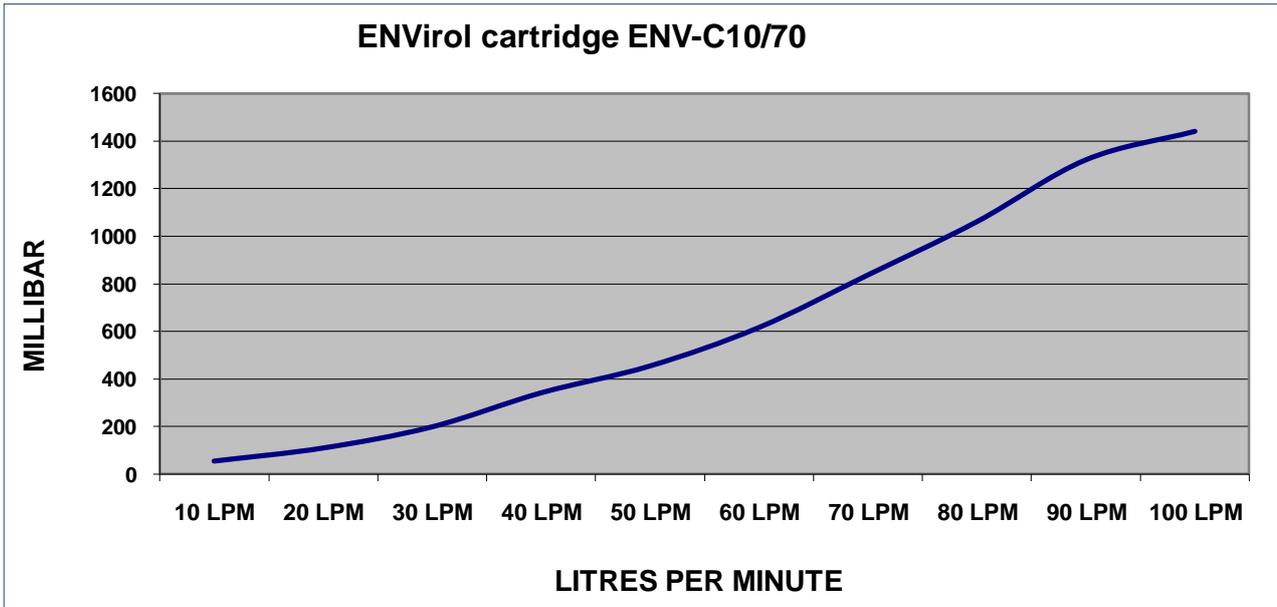
A typical vessel configuration for oilfield use is a twin pod housing system of 100 ENV-C40/70 cartridges. The housing unit can be run in parallel or series depending on the level of the inlet contamination. With 4" pipe work flow rates of 18 Bbl/min (2.80 M3/min) are possible giving a contamination take up of over 130 kgs and allowing a discharge level lower than 5 mg/l.

The ENVirol™ filter cartridges in such a system as described give a compact solution that reduces the environmental impact of oilfield and process industry operations where inlet to filter contamination is less than 500 mg/l. The vessel and cartridge package can be used without upset to existing processes and provides a reliable solution.

- Up to 99% oil removal.
- Easy installation and change out.
- High flow rates, low differential.
- No disposal issues.
- Standard end caps and cartridge sizes available.
- Standard cartridges available to suit existing housings.

ENVirol™ Cartridge Code	Dimensions
ENV70-10	70mm dia. X 10" Long
ENV70-30	70mm dia. X 30" Long
ENV70-40	70mm dia. X 40" Long
ENV117-10	117mm dia. X 10" Long
ENV117-20	117mm dia. X 20" Long

Temperature Rating. Standard 70° C. and Hi Temp option 85° C.



Differential flow chart for a standard 10'' x 70mm cartridge. (water at 20 deg. C)

Cartridge end cap specifications for 70mm diameter cartridges, standard and bespoke lengths available on request. 117mm diameter cartridges available in DOE end cap type.

