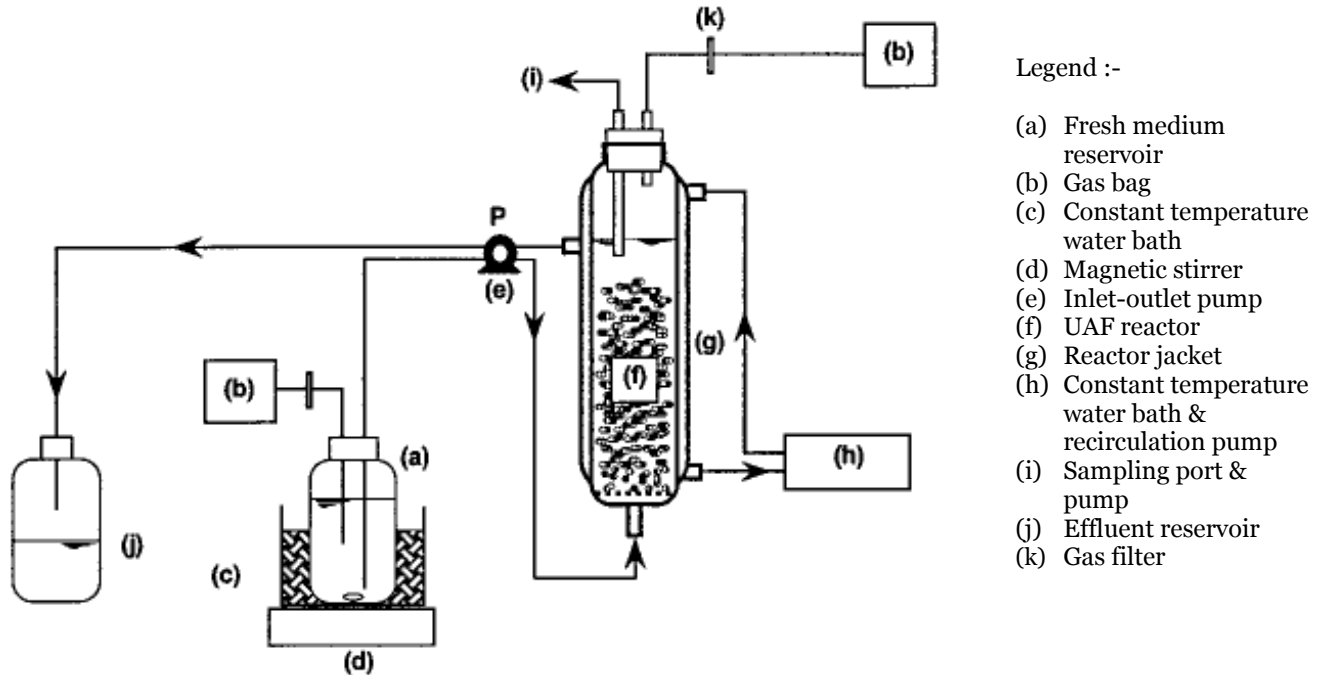


## UPFLOW ANAEROBIC FILTER BIOREACTOR



An anaerobic filter is a type of anaerobic digester. The digestion tank contains a filter medium where anaerobic microbial populations (organisms that live in the absence of oxygen) can establish themselves. Such filters are commonly employed in the treatment of waste water. These reactors are gaining in popularity versus more established aerobic waste-water treatment systems because they produce a less solid residue than do other types of filters.

Salient features :-

1. Useful for research involving biomass production (such as SCP) & biosynthesis of several microbial metabolites (such as Vitamin B12), as an alternative to conventional bioreactors
2. Much higher cell productivity achievable as compared to conventional bioreactors such as chemostat
3. Can be operated as single fed reactor (SFR) or multi-fed reactor (MFR)
4. High COD removal at low residence time
5. Long term stability against hydraulic and organic overloads
6. Capable of handling high influent COD loading
7. Significant production of biogas vis-à-vis influent COD
8. Various inert filter media available
9. Treatment of a wide variety of wastewaters is possible
10. Suitable for bioconversion of several substrates to methane

*Manufactured in India by :-*

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