

The PMAC Bio-Sidestream

The management of Microbiological contamination in water handling systems is of vital importance in any protective maintenance program. The more efficient the analytical procedures you have in place, the more effective the corrective action you can take.

Which is where the PMAC Bio-Sidestream, low pressure Acetyl models, rated to 300 psi or the high pressure stainless steel or titanium model (standard rated to 3500 psi working pressure). The standard design typically hold 24 biostuds for the analysis of sessile microbiological contamination in water injection or produced water handling systems. It can be mounted vertically or horizontally and it is attached to the operating system directly from a standard sample point. In addition the outer valve may be simply run to a drain or looped back into the system.



The high pressure sidestream, manufactured in 316 stainless steel or titanium for maximum corrosion resistance, has no welded parts and can therefore be used in sour process pipework without requiring any weld certification. This biofilm monitoring methodology complies with the recommended practices of both NACE (National Association of Corrosion Engineers) and ICorr (the Institute of Corrosion).

Once installed the Sidestream is easy to use and maintain. The water flow rate is set and the continuous monitoring commences immediately; once a pre-determined flow or time lapse has been reached, through a series of valves isolates the system from the sidestream; a biostud holder can be removed and replaced as necessary. Analysis of the biostud is easily carried out using standard kits. Subsequently any necessary treatments can be introduced, overall proving an effective microbiological management of water systems.

The PMAC Systems BIORIG

Is an expansion to the "Robbins-type" Bio-sidestream unit (above) and is used by Chemical Companies for the on-site testing of Biocide efficacy; it is suitable for use with oilfield water injection systems or other high volume water handling plant. The unit comprises four independent flow chambers, each with ten individual biostud access ports, and a chemical injection facility contained in a stainless steel skid. Each of the three test channels is fitted with a chemical injection facility enabling three separate treatment regimes, or biocide chemicals, to be evaluated simultaneously. A separate channel is used for control (untreated) purposes. The unit is low maintenance and is constructed from stainless steel, PVC and other non-corroding, low toxicity materials. The PMAC Bio-Sidestream is a cost effective monitoring tool for assessing the effectiveness of system treatments. In this situation, the sidestream is fixed permanently inline with flow control and drain facilities tied in. The biostuds are removed on a regular basis for analysis to aid selection / flow rate of appropriate biocide chemical.

For further information, specification or price and availability call or email: sales@pmacsystems.com

Note: Rental of the Bio-sidestream is subject to availability.