

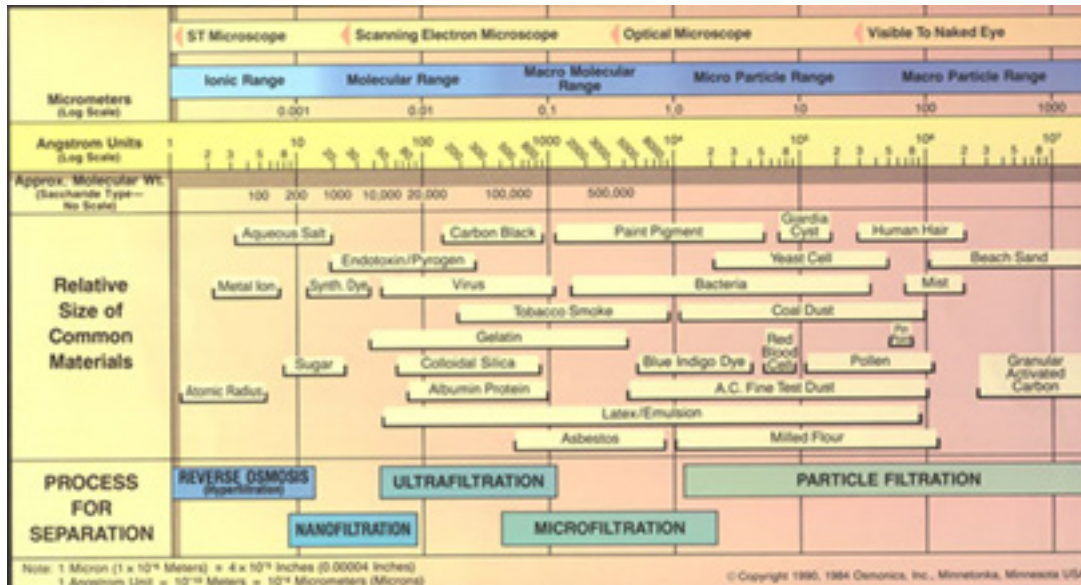


Osmotic Solutions

Engineered Water Treatment Systems

Depended upon your water source and application, the presence of suspended solids or filterable contaminants can have dramatic effects, ranging from simple process inefficiencies, through to catastrophic damage to downstream equipment.

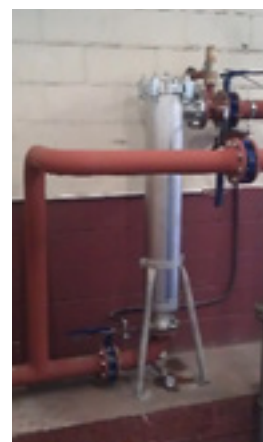
Due to the diverse nature of the contaminants removed, all our filtrations systems are individually specified, these range around a core of technologies.



Cartridge Filtration

Cartridge filters are often the simplest and lowest captical cost option, providing a simple disposable method of filtering your system either inline or sidestream. Cartridge filters can be individually specified to meet particular removal sizes and even some specific contaminants, typically ranging from 0.04micron upwards. Cartridge filters are limited in that they do require manual intervention to regularly change, which can present an issue in unmanned areas. Similarly for larger flow applications, the cost of consumables must be taken into consideration.

Please see recently installed cartridge filter unit, incorporating automated differential pressure alarm system below.



Backwashable Vessels

Automated backwashing filters are ideally suited to areas with high solids loading and medium to high flow demand. These systems are designed to require no user intervention on a day to day basis with minimal annual servicing requirements.

These systems can range from a single multiport valve to multi valve systems resembling a water softener. Typical removal ranges are particulates down to 25 micron, however recent advances allow removal up to 0.45micron

These systems can be designed with specific medias to remove, for example basic solids, specific contaminants, eg arsenic, lead, chlorine, iron manganese, or a combination. These often work in conjunction with other chemical or physical technologies

Ultra-filtration

Ultrafiltration is a new and diverse technology changing the pre-treatment market, this system provides a high efficiency alternative to many multistep processes of old, ideally suited to RO pre-treatment, organics removal and low level solids removal.

These systems can even be specified to remove endotoxins, bacteria, virus and colloids.

The system consists of a hollow fibre membrane in a housing with the ability to maintain a constant or periodic rinse flow to drain which cleans the removal surface of the membrane, ensuring longevity of life and no requirement for changeout. As below.

