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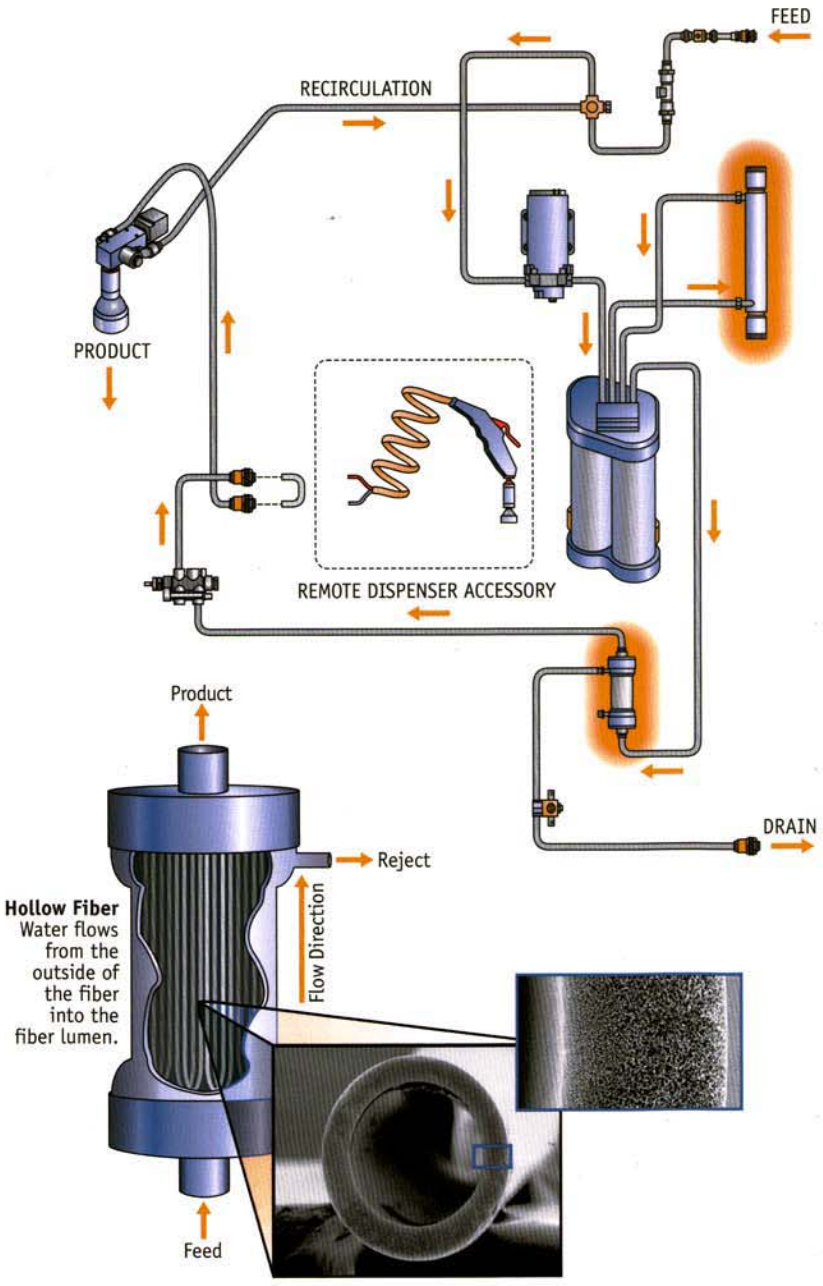
DI*amond* Life Science (UV/UF) and DI*amond UF*

For applications requiring undetectable levels of pyrogens such as cell and tissue culture, ultrafiltration is essential. The most complete water system on the market today, DI*amond* Life Science (UV/UF) is ideal for your most demanding molecular biology applications including PCR and electrophoresis, in addition to cell and tissue culture. This system has demonstrated the ability to remove nucleuses such as RNase and DNase from challenged feed water.



Ultrafiltration removes the last traces of pyrogens (bacterial endotoxins) for the many applications where its presence can be damaging.

The encapsulated ultrafilter uses unique, patented, polysulfone hollow fibers to remove particulates and pyrogens. The filter is located downstream of the purification media and UV chamber for maximum benefit.

Fine hollow UF fibers are folded and secured on the product side of the capsule. Water entering the capsule flows from the outside of the fibers into their hollow cores. The channels merge to become the purified product stream. The system periodically sends water from the outside of the fibers to the drain – thereby removing filtered contaminants.

Quality – The UF capsule filters are 100% tested during manufacturing to guarantee integrity.

Fast rinse-up – The filters are shipped dry without chemical preservatives. This allows fast rinse-up to high-purity water.

Low extracables – There is almost no organic or inorganic addition to the water as demonstrated by low-TOC and high-resistivity measurements.

Simple sanitization – As with all DI*amond* systems, those incorporating UF are easily sanitized. A liquid sanitant is injected by syringe and the DI*amond* software does the rest.