What is Claimed is:

1. In combination, a plurality of membranes having a first performance distribution, a filtration scaling device and a full scale filtration device related to said filtration scaling device by a scaling factor, said filtration scaling device having a high end potential performance and a low end potential performance within said performance distribution, said full scale filtration device also having a high end potential performance and low end potential performance within said first performance distribution, said filtration scaling device comprising a scaling device membrane selected from said plurality of membranes and having a known range of performance within said performance distribution that is a subset of said first performance distribution;~~comprising a scaling device membrane in said device selected from said plurality of membranes and having a known range of performance within said performance distribution that is a subset of said first performance distribution;~~ said full scale filtration device comprising a full scale device membrane selected such that said scaling factor is

directly proportional to the product of said full scale filtration device high end potential performance within said distribution and the filtration scaling device high end potential performance within said subset of said distribution, and inversely proportional to the product of the filtration scaling device low end potential performance within said subset of said distribution and the full scale filtration device low end potential performance within said distribution.

2. The combination of claim 1, wherein said scaling factor is the product of the full scale filtration device high end potential performance within said distribution and the filtration scaling device high end potential performance within said subset of said distribution, divided by the product of the filtration scaling device low end potential performance within said subset of said distribution and the full scale filtration device low end potential performance within said distribution.