

COPY

E. W. BACHARACH & CO.

Water Purification Plants
Rialto Building, Kansas City, Missouri

May 14, 1943.

Dr. F. C. Allen
Director of Physical Education
Varsity Basketball Coach
University of Kansas
Lawrence, Kansas

Dear Sir:

On May 13th the writer made a final inspection of the swimming pool filter and recirculating system which is located in the gymnasium building.

Incidentally, we discovered that the pool is of obsolete design and, of course, it is very difficult to obtain the desired results, inasmuch as the pool has no scum gutters and, furthermore, a depth of water of approximately 8' is maintained over the entire area. Modern pools, as you no doubt know, have a shallow end of approximately 3' to 4' of water and slope down to a depth of between 8' and 9' of water. This is to enable beginners to use the shallow end and, of course, the experienced swimmers the deep end.

There is nothing that can be done to improve the pool as the cost would be prohibitive. However, the final results that are now being obtained under the present set-up should be appreciated and, no doubt, such results are due to careful operation.

Now, in regard to rehabilitating the present filter and recirculating system, we recommend the following:

1. A new recirculating pump and motor should be installed as the present unit has too small a capacity. In other words, according to our figures, with your present pump the contents of the pool are turned over once every $18\frac{1}{2}$ hours and by furnishing a larger pump and motor the contents of the pool would be turned over every $12\frac{1}{2}$ hours. However, according to the best practice, the pool should be turned over once every 8 hours, but this cannot be done, owing to the size of your present filter itself. It is not advisable to furnish a larger filter at this time as it would be impractical to do so, because of the space available and also the question of removing the present filter and installing a new one, as there are no openings in the building of sufficient size to do the work.
2. A hair and lint catcher should be installed in the suction line to the pump in order to prevent hair and lint and other foreign matter from passing through the pump and on to the filter.