



6650 Highland Road Suite 201 Waterford, MI 48327 Phone 248-666-9200 Fax 248-666-9202

TowerKlean Engineering Update: Has your Water System outgrown your Treatment capability??

Occasionally we hear from customers that their water doesn't seem to be as trouble-free as it had been in the past, after years of successful operation of their TowerKlean systems. One common factor we have found is a result of our customers' success! GROWTH. As factories grow, or as processing equipment is added, Cooling Tower systems and/or Chilled water systems grow to meet the demands of the additional equipment. You can do a quick audit yourself, to see whether or not you are still providing adequate TowerKlean capacity.

Each TowerKlean column (referring to models TK20 thru TK80) is capable of treating a VOLUME of water of 1800 gallons. Notice that we do not refer to GPM or flow, the TowerKlean systems are sized based upon the total water volume in your tower/tank/piping etc. For users of our newer TK2 systems, you can equate each can of Media to the same 1800 gallon limit. Below is a chart you can use to calculate your own systems water volume.

If you have questions or find that your system is now marginal in size, give us a call! We are anxious to help and have solutions that get you back in service with *Chemical-Free, Trouble-Free* water!

WATER SYSTEM TOTAL VOLUME CALCULATOR

A. Determine the operating water volume of the reservoir to insure an adequate supply of backwash water. Measure the reservoir tank:

_____ ft. L. x _____ ft. W. x _____ ft. H. to water level x 7.48 = _____ Reservoir Water Volume. (Square tank)

_____ ft. Radius x _____ ft. Radius x 3.14 x _____ ft. H. to water level x 7.48 = _____ Reservoir Water Volume. (Cylindrical tank)

B. Determine the water volume in the cooling system plumbing runs. First determine the size and length of each plumbing run. Using the Table below, calculate the water volume in the plumbing.

Pipe Dia.	Gallons per 100'	
2"	15gal/100'	_____
3"	22gal/100'	_____
4"	60gal/100'	_____
6"	135gal/100'	_____
8"	237gal/100'	_____
10"	373gal/100'	_____
12"	528gal/100'	_____

C. Determine the Total Water Volume of the cooling system for proper sizing of the TowerKlean® system, by adding the volume of the reservoir, the piping and any other additional water volume together.

TOTAL SYSTEM VOLUME _____ **Gallons**