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February 13<sup>th</sup> 2012 ~ Monday Morning Minutes:

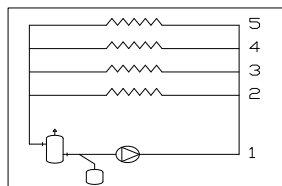
## Expansion and Compression Tanks – Part 10

### Compression Tank and Expansion Tank Selection Examples

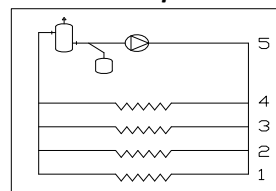
by Norman Hall

Today, let's look at a couple of selections and how the tank sizes and costs may vary based on location and type of tank selected. Our examples are shown in figures A & B. In each case we will use a system volume of 1500 gallons of water with a supply temperature of 200°F and 20°F ΔT. The system is 60 feet high and in each case the maximum pressure is 50 PSIG.

**Example A**



**Example B**



Using the Xylem Bell and Gossett ESP-PLUS™ selection program, we get the following results.

**Example A: EXPANSION TANK**

Minimum Volume: 151.  
 Acceptance Volume: 46.8  
 B&G tank model B-600  
 Filled weight: 2000 lbs.  
 Budget installed price: \$7,600.00

**Example B: EXPANSION TANK**

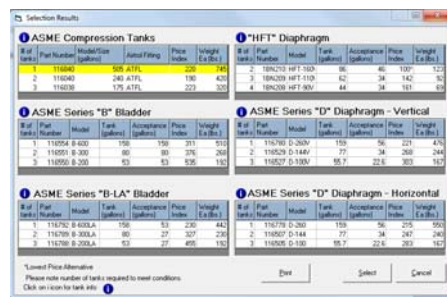
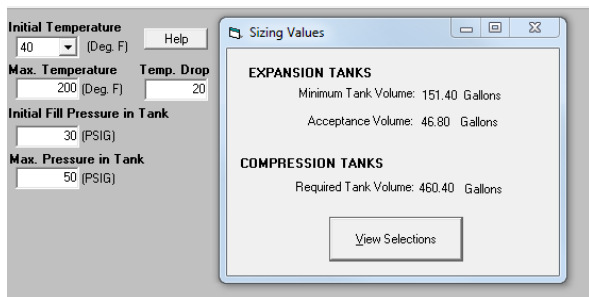
Minimum Volume: 79.7.  
 Acceptance Volume: 46.8  
 B&G tank model B-300  
 Filled weight: 1000 lbs.  
 Budget installed price: \$3,940.00

**Example A: COMPRESSION TANK**

Required tank Volume: 460.4  
 B&G tank model 505 gallon  
 Filled weight: 5000 lbs.  
 Budget installed price: \$9,300.00

**Example B: COMPRESSION TANK**

Required tank Volume: 144.7  
 B&G tank model 175 gallon  
 Filled weight: 2000 lbs.  
 Budget installed price: \$3,700.00



Taken from the B&G selection program

*Next week we continue with expansion tank sizing.*

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