DIAPHRAGM EXPANSION TANKS
Sizing for Hydronic Heating/Cooling Systems

Job Name: __________________________ Date: __________________________

Job Location __________________________ Salesman: ________________

Contact Name: __________________________ Model #: ________________

Information Required:
1. Total system water content. _______ gallons
2. Temperature of water when system is filled. _______ °F
3. Average maximum operating temperature _______ °F
4. Minimum operating pressure _______ psig
5. Maximum operating pressure (10% below relief valve) _______ psig

Model Selection:
6. Enter total system water content. (from line 1. above) _______ gallons
7. Using the expansion factor table, find and enter the expansion factor _______
8. Multiply line 6 by line 7. Enter expanded water volume. _______ gallons
9. Using acceptance factor table, find and enter the acceptance factor _______
10. Divide line 8 by line 9, enter total tank volume required. _______ gallons
   Line 8. ____ gallons Expanded Water (acceptance volume)
   Line 10. ____ gallons total tank volume

Select diaphragm expansion tank
NTA Models must satisfy both lines 8 and 10 above.
NLA Models are selected by gallons only from line 10.
NVA Models are selected by gallons only from line 10.
For large systems, multiple tanks can be manifolded together.

CAUTION: This chart is for water only. For expansion factors for glycol solutions contact the Wessels factory or your local Wessels dealer.