PLAIN STEEL 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. Determine the acceptance factor by \( (P_a - P_f) - (P_a - P_o) \)
   where \( P_a = \) Pressure (atmospheric)
   \( P_f = \) Pressure at fill (atmospheric)
   \( P_o = \) Pressure at operation (atmospheric) and enter _______
10. Divide line 8 by line 9 and enter tank size. _______ gallons
11. Select Plain Steel Tank from table on Page 8 Model_______NA______

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