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 $(P_a \div P_f) - (P_a \div P_o)$

   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.