

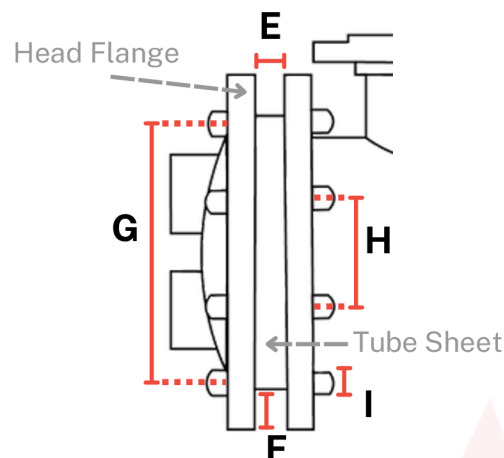
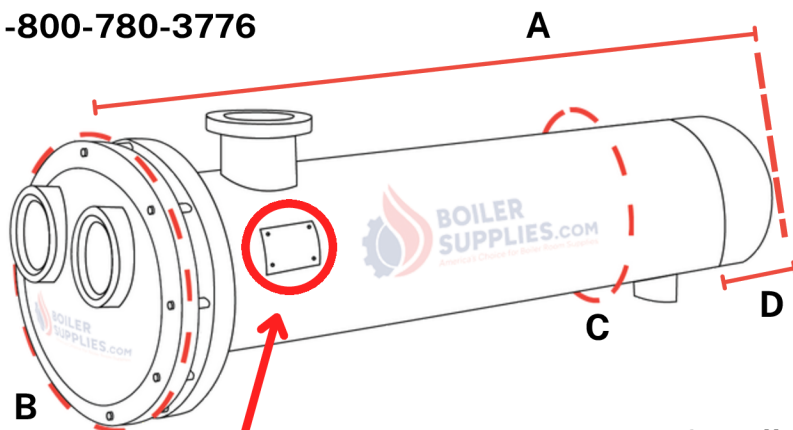
# Measuring for U-Tube Bundle Replacement In Shell & Still in Service



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sales@boilerusa.com

1-800-780-3776



**STOP:** If you can access the unit's data tag (usually located here), no measurements are needed. Just retrieve this information:

**National Board #:** \_\_\_\_\_

**Model #:** \_\_\_\_\_

**Year:** \_\_\_\_\_

**Serial #:** \_\_\_\_\_

**Manufacturer:** \_\_\_\_\_

**Number of Bolts:** \_\_\_\_\_

**Check One:** (Optional)

☐ Domestic Hot Water

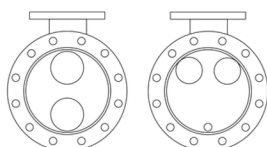
☐ Heating Hot Water

**Tube Sheet Material:**

**Tube Material:**

**Circle One of Each**

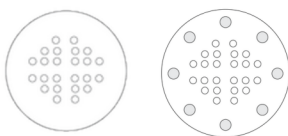
**1. # of Passes**



2-Pass

4-Pass

**2. Tube Sheet**



Boltless

Full Face (Bolted)

**A. Overall Length:** \_\_\_\_\_

Measure from where the head flange meets the tube sheet to the end of the shell

**B. Flange Circumference:** \_\_\_\_\_

Wrap garment tape or similar tool around the head flange to get circumference

**C. Shell Circumference:** (Optional) \_\_\_\_\_

If shell is covered in insulation, skip this step. Otherwise, wrap garment tape around the shell to get circumference.

**D. Weld Line to End of Shell:** \_\_\_\_\_

**E. Tube Sheet Thickness:** \_\_\_\_\_

Measure the distance between both flanges.

**F. Tube Sheet to Lip of Flange:** \_\_\_\_\_

Skip if measuring a boltless tube bundle. Otherwise, measure the distance from the top of the tube sheet to the lip of the flange

Skip the Following if Measuring a Boltless Tube Sheet:

**G. Cross Bolt Center-to-Center:** \_\_\_\_\_

If possible, measure from the center of one bolt to the center of the bolt directly opposite it on the flange.

**H. Adjacent Bolt Center-to-Center:** \_\_\_\_\_

**I. Bolt Diameter:** \_\_\_\_\_

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