



# HYDRONIC EXPANSION TANKS

## TYPICAL SPECIFICATIONS

### AX Series EXTROL® Hydronic Expansion Tank (Head & Shell Fixed Diaphragm)

The HVAC hydronic system shall include an EXTROL, diaphragm-type expansion tank which will suspend expanded water created within the normal operating temperature range. By function, the tank will limit pressure increases at all system components to their maximum allowable pressure, maintaining system nominal operating pressure. Tank model No. \_\_\_\_\_. Dimensions shall be as indicated on the drawings. The expansion tank shall be welded carbon steel construction, tested, and stamped in accordance with Section VIII, Division 1 of the ASME Code for a working pressure of (125) (\_\_\_\_\_) PSIG and air pre-charged to 12psi, requiring a field adjustment equal to the system fill pressure as measured at tank location point. The tank shall be constructed with a base (integral ring mount) for a vertical installation or steel saddles for horizontal installations. This ASME vessel will include a low mounted, 1-1/4" InSight Glass™ Port, angled upward with a buoyant red ball visible behind a clear Plexi-glass plate from eye level. With a stainless-steel perforated plate behind the ball, the Insight Port acts as a tank performance indicator when the ball is still. When the ball floats and churns in the sight port, this is an indication that the tank requires service. Each tank will have a heavy-duty butyl/EPDM diaphragm.

### AX-DD Series EXTROL® Hydronic Expansion Tank (Head & Shell Fixed Diaphragm)

The HVAC hydronic system shall include an EXTROL, diaphragm-type expansion tank which will suspend expanded water created within the normal operating temperature range. By function, the tank will limit pressure increases at all system components to their maximum allowable pressure, maintaining system nominal operating pressure. Tank model No. \_\_\_\_\_. Dimensions shall be as indicated on the drawings. The expansion tank shall be welded carbon steel, form constructed in the deep-drawn extrusion method, tested, and stamped in accordance with Section VIII, Division 1 of the ASME Code for a working pressure of (125) (\_\_\_\_\_) PSIG and air pre-charged to 12psi, requiring a field adjustment equal to the system fill pressure as measured at tank location point. The tank shall be constructed with a base (integral ring mount) for a vertical installation or steel saddles for horizontal installations. This ASME vessel will include a low mounted, 1-1/4" InSight Glass™ Port, angled upward with a buoyant red ball visible behind a clear Plexi-glass plate from eye level. With a stainless-steel perforated plate behind the ball, the Insight Port acts as a tank performance indicator when the ball is still. When the ball floats and churns in the sight port, this is an indication that the tank requires service. Each tank will have a heavy-duty butyl/EPDM diaphragm.

### L & LBC Series Expansion Tank (Replaceable Bladder-Type Pre-Pressurized)

The HVAC hydronic system shall include an EXTROL, replaceable bladder-type expansion tank which will suspend expanded water created within the normal operating temperature range. By function, the tank will limit pressure increases at all system components to their maximum allowable pressure, maintaining system nominal operating pressure. The model No. \_\_\_\_\_. Dimensions shall be as indicated on the drawings. The expansion tank shall be welded steel, constructed, tested, and stamped in accordance with Section VIII, Division 1 of the ASME Code for a working pressure of (125) (175) (250) (\_\_\_\_\_) PSIG and air pre-charged to 12psi, requiring a field adjustment equal to the system fill pressure as measured at tank location point. The tank shall be constructed with a base (integral ring mount) for a vertical installation. This ASME vessel will include a low mounted, 1-1/4" InSight Glass™ Port, angled upward with a buoyant red ball visible behind a clear Plexi-glass plate from eye level. With a stainless-steel perforated plate behind the ball, the Insight Port acts as a tank performance indicator when the ball is still. When the ball floats and churns in the sight port, this is an indication that the tank requires service. Each tank will have a heavy-duty replaceable butyl bladder.

**All ASME tanks shall be provided with a free from factory construction defects warranty for a full 3 years from date of installation.**



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