

Kansas Administrative Regulations

Department of Labor

Article 52.—Low Pressure Heating Boilers

49-52-13. Provisions for thermal expansion in hot water systems.

(a) All hot water heating systems incorporating hot water tanks or fluid relief columns shall be installed in a manner that will prevent freezing under normal operating conditions.

(b) Systems with open expansion tank. If the system is equipped with an open expansion tank, an indoor overflow from the upper portion of the expansion tank shall be provided in addition to an open vent. The indoor overflow shall be carried within the building to a suitable plumbing fixture or the basement.

(c) Closed systems. If the system is closed, an airtight tank or other suitable air cushion shall be installed that will be consistent with the volume and capacity of the system, and it shall be suitably designed for a hydrostatic test pressure of 2½ times the allowable working pressure of the system. Expansion tanks for systems designed to operate above 30 psig shall be constructed in accordance with section VIII, division 1, as required by section IV of the ASME code. Provisions shall be made to drain the tank without emptying the system, except for prepressurized tanks.

(d) Non-code expansion tanks installed on hot water heating systems shall be restricted to no more than 30 psi working pressure.

(Authorized by and implementing K.S.A. 1998 Supp. 44-916; effective May 1, 1987; amended April 28, 2000.)

***** Authenticated Kansas Administrative Regulation *****