

TITLE 20. COMMERCE, FINANCIAL INSTITUTIONS, AND INSURANCE

CHAPTER 5. INDUSTRIAL COMMISSION OF ARIZONA

effective January 3, 2017 (Supp. 17-1).

R20-5-326. Expired**Historical Note**

Adopted effective September 9, 1998 (Supp. 98-3). Section expired under A.R.S. § 41-1056(J) at 23 A.A.R. 297, effective January 3, 2017 (Supp. 17-1).

R20-5-327. Expired**Historical Note**

Adopted effective September 9, 1998 (Supp. 98-3). Section expired under A.R.S. § 41-1056(J) at 23 A.A.R. 297, effective January 3, 2017 (Supp. 17-1).

R20-5-328. Expired**Historical Note**

Adopted effective September 9, 1998 (Supp. 98-3). Section expired under A.R.S. § 41-1056(J) at 23 A.A.R. 297, effective January 3, 2017 (Supp. 17-1).

R20-5-329. Expired**Historical Note**

Adopted effective September 9, 1998 (Supp. 98-3). Section expired under A.R.S. § 41-1056(J) at 23 A.A.R. 297, effective January 3, 2017 (Supp. 17-1).

ARTICLE 4. ARIZONA BOILERS AND LINED HOT WATER HEATERS**R20-5-401. Applicability**

This Article applies to all Boilers, Lined Hot Water Heaters, and Pressure Vessels operated in Arizona, except the following:

1. Boilers, Lined Hot Water Heaters, and Pressure Vessels regulated by the United States Government;
2. Boilers, Lined Hot Water Heaters, and Pressure Vessels operated in private residences or Apartment Complexes of not more than six units; and
3. Boilers, Lined Hot Water Heaters, and Pressure Vessels operated on Indian reservations.
4. A Lined Hot Water Heater that does not exceed any of the following:
 - a. Heat input of 200,000 BTU/hr;
 - b. Water temperature of 210° F; or
 - c. Nominal water containing capacity of 120 gallons.
5. An electric Boiler that does not exceed either of the following:
 - a. Tank volume of one-and-a-half cubic feet; or
 - b. MAWP of 100 pounds per square inch or less, with a pressure relief system to prevent excess pressure.

Historical Note

Former Rules B-1.1 and B-1.2. Former Section R4-13-401 repealed, new Section R4-13-401 adopted effective April 12, 1979 (Supp. 79-2). Section R4-13-401 repealed, new Section adopted effective April 9, 1992 (Supp. 92-2).

R20-5-401 recodified from R4-13-401 (Supp. 95-1).

Amended effective October 9, 1998 (Supp. 98-4).

Amended by final rulemaking at 15 A.A.R. 1496, effective August 18, 2009 (Supp. 09-3). Amended by final rulemaking at 28 A.A.R. 3952 (December 30, 2022), with an immediate effective date of December 7, 2022 (Supp. 22-4).

R20-5-402. Definitions

In addition to the definitions provided in A.R.S. § 23-471, the following definitions apply to this Article:

“Act” means A.R.S. Title 23, Chapter 2, Article 11.

“Alteration” means any change in the item described on the original manufacturer’s data report which affects the pressure-containing capability of the Boiler or Pressure Vessel, including but not limited to:

Nonphysical changes such as an increase in the MAWP either internal or external, or

A reduction in minimum design temperature of a Boiler or Pressure Vessel requiring additional mechanical tests.

“ANSI” means American National Standards Institute, Inc.

“Apartment Complex” means a building with multiple family dwelling units, not used for commercial purposes, including condominiums and townhouses, where Boilers are located in a common area outside of the individual dwelling units, such as a Boiler room.

“Applicant” means an individual requesting permission to act as a Special Inspector under A.R.S. § 23-485.

“ASME” means the American Society of Mechanical Engineers.

“Authorized Inspector” means an Authorized Representative under A.R.S. § 23-471(1) or a Special Inspector under A.R.S. § 23-485.

“Blowdown Tank” or “Blowdown Separator” means an ASME-stamped vessel designed to receive discharged steam or hot water from a Boiler blowoff or blowdown piping system.

“BTU” means British thermal units.

“Condemned” means a Boiler or Lined Hot Water Heater that has been inspected and found to be unsafe by an Authorized Inspector and has been stamped or tagged with the code XXX AZ8 XXX.

“CSD-1” means Controls and Safety Devices for Automatically Fired Boilers, published by ASME, incorporated by reference in R20-5-404(A)(4).

“Direct Fired Jacketed Steam Kettle” means a jacketed steam kettle having its own source of energy, such as gas or electricity for generating steam within the jacket’s walls.

“External Inspection” means an examination of a Boiler or Lined Hot Water Heater performed by an Authorized Inspector when the Boiler or Lined Hot Water Heater is in operation.

“Forced Circulation Lined Hot Water Heater” means a Lined Hot Water Heater used for potable water, a Lined Hot Water Heater requiring movement of water to prevent overheating and failure of the tubes or coils, and has no definitive waterline.

“Fully Attended Power Boiler” means a Power Boiler that is operated by an individual who meets the requirements of R20-5-408(D), and whose primary function is the care, maintenance, and operation of the Boiler and the equipment associated with the Boiler system.

“Historical Boilers” means steam Boilers preserved, restored, or maintained for hobby or demonstration use.

“HS” means heating surface.

“Inspection Certificate” means a document issued by the Division for the operation of a Boiler, Lined Hot Water Heater, or Direct Fired Jacketed Steam Kettle when a Certificate Inspection has been successfully completed.

“Internal Inspection” means a complete examination of the internal and external surfaces of a Boiler or Lined Hot Water Heater by an Authorized Inspector after the Boiler or Lined Hot Water Heater is shut down.

“Kw” means kilowatt.