

¹⁸ Corrosion Control with Threshold Treatment, by G. B. Hatch and Owen Rice (*Industrial and Engineering Chemistry*, Vol. 32, 1940, p. 1572).

¹⁹ Refrigeration Data Book (*American Society of Refrigerating Engineers*, 1936, p. 404).

²⁰ Engineering Problems of Water Treatment, by L. F. Collins (*Power Plant Engineering*, Vol. 50, July 1946, p. 78-81, 120).

²¹ See Ref. 18, p. 470.

²² Studies in The Detroit Edison Co. (Unpublished)

²³ Preventing the Solution of CO₂ in Condensates by Venting of the Vapor Space of Steam Heating Equipment, by D. S. McKinney, J. J. McGovern, C. W. Young and L. F. Collins (A.S.H.V.E. TRANSACTIONS, Vol. 51, 1945, p. 53).

²⁴ Corrosion in Steam Heating Systems, by Leo F. Collins and Everette L. Henderson (*Heating, Piping and Air Conditioning*, October 1939, p. 620).

²⁵ U. S. Patent 1,395,730.

²⁶ U. S. Patent 2,053,024.

²⁷ U. S. Patent 1,903,287.

²⁸ Treating Steam Chemically to Reduce Return Line Corrosion, by A. A. Berk, (*Industry and Power*, Vol. 53, Nov. 1947, p. 79).

²⁹ Tests in The Detroit Edison Co. (Unpublished)

³⁰ More Information Concerning Corrosion in Steam Heating Systems, by L. F. Collins (Proceedings, Water Conference, *Engineers' Society of Western Pennsylvania*, 1943, p. 37).

³¹ Rubber Linings and Coatings, by J. J. McNeil (*Corrosion and Material Protection*, March-April, 1947).

³² Protection of Steel Bins from Corrosion, by J. V. Schaefer (*Power Plant Engineering*, Vol. 26, 1922, p. 632).

³³ Some Notes on Corrosion of Cast-Iron Sectional Boilers, by E. R. Walters (*The Institution of Heating and Ventilating Engineers*, Preprint, 1944).

³⁴ Cathodic Protection of Steel Equipment Submerged in Water, by L. P. Sudra-bin (Proceedings, Water Conference, *Engineers' Society of Western Pennsylvania*, 1944).

³⁵ A discussion by D. W. Haering (See Ref. 11, p. 66).

³⁶ Cyclohexylamine and Dicyclohexylamine, by T. S. Carswell and H. L. Morrill (*Industrial and Engineering Chemistry*, Vol. 29, 1937, p. 1247).

³⁷ Drinking Water Standards, etc. (Reprint #2440, *Public Health Reports*, Vol. 58, No. 3, January 15, 1943).

³⁸ Discussion of Ref. 15, by R. M. Palmer.

³⁹ Official Plumbing Code of the City of Detroit, Article V.

⁴⁰ Private Communication from H. S. Jordan, A.W.W.A.

CHAPTER 52

CODES AND STANDARDS

THE Codes and Standards listed in Table 1 represent accepted practice, methods, or standards prepared and accepted by the organizations indicated. They are valuable guides for the practicing engineer in determining test methods, ratings, performance requirements, and limits applying to equipment used in heating, ventilating, and air conditioning. Copies can usually be obtained from the organization listed in the reference column.

TABLE 1. CODES AND STANDARDS PREPARED AND ACCEPTED BY VARIOUS SOCIETIES AND ASSOCIATIONS

SUBJECT	TITLE	SPONSOR	REFERENCE
Air Conditioning	Code of Minimum Requirements for Comfort Air Conditioning (1938)	A.S.H.V.E. A.S.R.E.	A.S.H.V.E.
Air Conditioning (120,000 Btu/Hr or less)	Code and Manual for the Design and Installation of Warm Air Winter Air Conditioning Systems (1945).	N.W.A.H. & A.C.A.	N.W.A.H. & A.C.A. Manual No. 7
Air Conditioning (Above 120,000 Btu/hr)	The Technical Code for the Design and Installation of Mechanical Warm Air Heating Systems (1942).	N.W.A.H. & A.C.A.	N.W.A.H. & A.C.A. Manual No. 9
Airplane	Aeronautical Recommended Practice for Heating and Ventilating Airplanes (1943)	S.A.E.	S.A.E. ARP 85
Airplane	Aeronautical Recommended Practice for Internal Combustion Type Airplane Heaters (1945).	S.A.E.	S.A.E. ARP 143A
Attic Ventilation	Attic Ventilation Code (1946)	P.F.M.A.	P.F.M.A.
Boilers	I=B=R Testing and Rating Code for Low Pressure Heating Boilers (1947).	I.B.R.	I.B.R.
Boilers	Net Square Feet Radiation Loads in 70 Deg Fahr, Recommended for Low Pressure Heating Boilers (1943).	H.P. & A.C.C.N.A.	H.P. & A.C.C.N.A.
Boilers	Net Load Recommendations for Heating Boilers.	H.P. & A.C.C.N.A.	H.P. & A.C.C.N.A.
Boilers	Standard and Short Form Heat Balance Codes for Testing Low Pressure Steam Heating Solid Fuel Boilers (Codes 1 and 2) (1929).	A.S.H.V.E.	A.S.H.V.E.
Boilers	A.S.H.V.E. Performance Test Code for Steam Heating Solid Fuel Boilers (Code No. 3) (1929).	A.S.H.V.E.	A.S.H.V.E.
Boilers	A.S.H.V.E. Standard Code for Testing Steam Heating Boilers Burning Oil Fuel (1932).	A.S.H.V.E.	A.S.H.V.E.
Boilers	A.S.H.V.E. Standard Code for Rating Steam Heating Solid Fuel Hand Fired Boilers (Revised April 1930).	A.S.H.V.E.	A.S.H.V.E.
Boilers	A.S.H.V.E. Standard Code for Testing Stoker-Fired Steam-Heating Boilers (1938).	A.S.H.V.E.	A.S.H.V.E.
Boilers	A.S.M.E. Boiler Construction Code for Low Pressure Heating Boilers.	A.S.M.E.	A.S.M.E.
Boilers (Miniature)	A.S.M.E. Miniature Boiler Code (1946).	A.S.M.E.	A.S.M.E.
Boilers	A.S.M.E. Boiler Construction Code (Combined Edition) (1946 with 1947 Addenda).	A.S.M.E.	A.S.M.E.