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- ⁶² I = B = R Testing and Rating Codes for Low Pressure Heating Boilers, 1947 (*Institute of Boiler and Radiator Manufacturers*).
- ⁶³ Commercial Standard for Warm Air Furnaces Equipped with Vaporizing Pot-Type Oil Burners, C.S. 104-26 (*National Bureau of Standards*).
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- ⁶⁷ Commercial Standard for Mechanical Draft Oil Burners Designed for Domestic Installations, C.S. 75-42 (*National Bureau of Standards*).
- ⁶⁸ *Industrial Dust*, by Philip Drinker and Theodore Hatch (McGraw-Hill Book Company, New York).
- ⁶⁹ Testing and Rating of Air Cleaning Devices Used for General Ventilation Work, by S. R. Lewis (A.S.H.V.E. TRANSACTIONS, Vol. 39, 1933, p. 277).
- ⁷⁰ A Test Method for Air Filters, by Richard S. Dill (A.S.H.V.E. TRANSACTIONS, Vol. 44, 1938, p. 379).
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- ⁷² The Determination and Control of Industrial Dust, by J. J. Bloomfield and J. M. Dalla Valle (*U. S. Public Health Bulletin No. 217*, 1935).
- ⁷³ Sampling and Analysis of Atmospheric Contaminants, by F. A. Patty (*Industrial Hygiene and Toxicology*, Vol. I, Interscience Publishers, Inc., New York, 1948).
- ⁷⁴ *Electrical Engineer's Handbook*, by Harold Pender and Knox McIlvaine (John Wiley and Sons, New York).
- ⁷⁵ *Elements of Acoustical Engineering*, by Harry F. Olson, (D. Van Nostrand Co., New York).
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CHAPTER 53

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
Acoustics (Terminology)	American Standard Acoustical Terminology. (1951)	AS of A	ASA Z24.1
Air Conditioning	Code of Minimum Requirements for Comfort Air Conditioning (1938).	ASHVE ASRE	ASHAE
Air Conditioning (120,000 Btu/Hr or less)	Code and Manual for the Design and Installation of Warm Air Winter Air Conditioning Systems (1953).	NWAA & ACA	NWAA & ACA Manual No. 7 4th Edition
Air Conditioning (Above 120,000 Btu/hr)	Code and Manual for the Design and Installation of Mechanical Warm Air Heating Systems (1950).	NWAA & ACA	NWAA & ACA Manual No. 9 5th Edition
Air Conditioning	Standards for the Installation of Air Conditioning and Ventilating Systems of Other Than Residence Type (1955)	NFPA	NBFU or NFPA No. 90A
Air Conditioning	Standards for the Installation of Residence Type Warm Air Heating and Air Conditioning Systems (1956)	NFPA	NBFU or NFPA No. 90B
Air Conditioning (Equipment)	ASRE Standard Methods of Rating and Testing Air Conditioning Equipment (1942). (Superseded by ASRE Standard 16-56)	ASRE ASHVE NEMA RMA ACMA	ASRE Circular No. 13-42
Air Conditioners	ASRE Standard Methods of Rating and Testing Air Conditioners (1949).	ASRE	ASRE Standard 16-56
Airplane	Air Conditioning Equipment, Airplane—General Requirements for (1948).	SAE	SAE ARP 85B
Airplane	Heaters, Airplane, Internal Combustion Heat Exchanger Type (1949).	SAR	SAE ARP 143B
Airplane	Heaters, Airplane, Steam Type	SAR	SAE ARP 87
Attic Ventilation	Residence Ventilation Guide (1950).	PFMA	PFMA
Boilers	I = B = R Testing and Rating Code for Low Pressure Cast Iron Heating Boilers, 6th Edition, 1952, amended 1956.	IBR	IBR
Boilers	Net Load Recommendations for Heating Boilers. Publ. semi-annually.	HP & ACCNA	MCAA
Boilers	Net Square Feet Radiation Loads in 70 Deg Fahr, Recommended for Low Pressure Heating Boilers (1948).	HP & ACCNA	MCAA
Boilers	ASME Boiler Construction Code for Low Pressure Heating Boilers (1952 with 1954 Addenda).	ASME	ASME
Boilers	ASME Boiler and Pressure Vessel Code (1952, 8 Vol.).	ASME	ASME