

HEATING VENTILATING AIR CONDITIONING GUIDE 1942

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AIR CONDITIONING

Equipment for complete air conditioning systems, consisting of an assembly of apparatus for air circulation, air cleaning and heat transfer, with control apparatus for maintaining temperature and humidity within prescribed limits, has many commercial, comfort, and industrial applications. Systems for all-year, winter and summer service, and special processing work are presented in four divisions . . . Pages 867-916.

CENTRAL SYSTEMS (p. 867-877)

Complete assembly of supply and return ducts serving one or more spaces, connected with some or all of the following equipment: fans, motors, heat transfer surfaces, humidifiers, dehumidifiers, refrigeration machinery, air cleaning devices and control equipment.

An outline of the design procedure generally used to create a modern central air conditioning system is given in Chapter 21 of the Technical Data Section.

DIRECT FIRED UNITS (p. 878-887)

Automatic heating and comfort air conditioning apparatus suitable for residential and small commercial applications designed to give results similar to the larger central systems provide direct fired oil, gas or coal heating units, filtration, fan controls, etc.

The Technical Data Section, Chapters 10, 12 and 20 cover this type of equipment.

FAN-FURNACE SYSTEMS (p. 888-891)

Winter air conditioning and summer ventilation for residences are provided by Automatic fired fan-furnace systems. As in the larger central systems these installations clean, heat and humidify the air, and if desired, auxiliary units will provide cooling.

In Chapter 20 on Mechanical Warm Air Furnace Systems will be found details of the design of this type of system.

UNIT HEATERS, COOLERS (p. 892-916)

For complete or partial air conditioning there are a variety of self-contained units. Such units may be complete in themselves, employing their own direct means of air cleaning, heating distribution and source of refrigeration.

The various functional elements of unitary equipment are given in Chapters 22 and 23, for Unit Heaters, Ventilators, Humidifiers, Conditioning and Cooling Units and Attic Fans.

Manufacturer's products shown in this division are designed for specific applications. Consult the Index to Modern Equipment for additional products of these manufacturers.