

International Heating & Ventilating Exposition

THE AIR CONDITIONING EXPOSITION

Permanent Address—Grand Central Palace, New York, N. Y.

EXPOSITION HELD

The first in Philadelphia, 1930.
The second in Cleveland, 1932.
The third in New York, 1934.
The fourth in Chicago, 1936.
The fifth in New York, 1938.
The sixth in Cleveland, 1940.
The seventh in Philadelphia, 1942.

Subsequent Expositions will be held on alternate, even numbered years.

These are held coincident with the Annual Meeting of the AMERICAN SOCIETY OF HEATING AND VENTILATING ENGINEERS and are directed by the International Exposition Company, under the auspices of the A.S.H.V.E.

EXHIBITORS

Comprise leading firms in each phase of the industry; number has varied from 150 to 327 exhibitors.

EXHIBITS

These range from and comprise all the types of articles discussed or advertised in this copy of THE A.S.H.V.E. GUIDE.

1. *The COMBUSTION Group:*
Furnaces, burners (coal, oil and gas), grates, stokers, boilers, radiators (various types), refractories and auxiliaries.
2. *The OIL BURNER Group.*
3. *The HYDRAULIC Group:*
Water feeders, water heaters, pumps, traps, valves, piping, fittings, expansion joints, pipe hangers, etc.
4. *The STEAM HEATING Group:*
Vapor heating and steam specialties.
5. *The HOT WATER HEATING Group.*
6. *The AIR Group:*
Warm Air furnaces and stoves, registers and grilles, cooling towers, air filters, motors, fans, blowers, conditioning equipment, ventilators (room and industrial types), unit heaters, etc.
7. *The AIR CONDITIONING Group:*
Equipment which circulates and filters the air, in summer dehumidifies and cools; in winter heats and humidifies, and does all these in proper season for complete, all year round air conditioning.
8. *The CONTROL Group:*
Instruments of precision for indicating, controlling or recording temperature, pressure, volume, time, flow, draft or any other function to be measured.
9. *The REFRIGERATING Group:*
Compressors, condensers, cooling apparatus, contingent apparatus and refrigerants.

10. *The CENTRAL HEATING Group:*
Apparatus and materials especially designed or adapted to the uses of central heating and central heating station supplies.
11. *The INSULATING Group:*
Structural insulators (refractory and cellulose materials), asbestos, magnesite clays and combinations thereof, pipe and conduit covering, etc., weather-stripping, etc.
12. *The MISCELLANEOUS Group:*
Electric Heaters, boiler and pipe repair alloys, liquids and compounds, tools of all kinds, and equipment not specifically included in the above groups, but related thereto.
13. *The MACHINERY AND GENERAL EQUIPMENT Group.*
14. BOOKS AND PUBLICATIONS.

VISITOR ATTENDANCE

Comprises a registered attendance invited to the exposition and includes:

(Figures are 1940 analysis)

INDUSTRIES

Governmental.....	401
Distribution Channels	
Contractors, Dealers, Jobbers, Supply Houses.....	7,031
Home Owners.....	333
Industrial Users.....	9,371
Professional and Service Organizations.....	689
Public Utilities.....	900
Real Estate Management and Operation.....	630
Educational Institutions.....	500
Miscellaneous.....	797
TOTAL.....	20,652

OCCUPATIONS

Executive.....	11,433
Construction.....	2,632
Operation.....	2,353
Technical.....	2,688
Not Classified including Educators, Publishers, Home Owners, etc.....	1,546
TOTAL.....	20,652

Industrial Expositions in America lead the expositions of the world in style, business effectiveness, industrial influence and educational value. This Exposition stands among the leaders in Industrial Expositions in America. It is an educational institution which biennially brings together the research developments and improvements in equipment and materials for use in heating, ventilating and air conditioning all types of buildings.

HEATING SYSTEMS

Steam and hot water heating systems with their many parts and accessories are classified according to their specific type of design and the service required. These systems and their component parts include:

HEATING SYSTEMS (p. 1016-1090)

Combinations of parts forming steam vapor and vacuum systems and hot water systems.

Technical data on steam heating systems are contained in Chapter 14; hot water systems in Chapter 16. Other references to heating systems will be found in the Index to the Technical Data Section.

BOILERS (p. 1040-1059)

Water tube, fire tube and firebox types; cast iron and steel construction; for coal, coke, gas or oil firing.

Technical data on heating boilers are given in Chapter 12.

In connection with steam and hot water heating systems various types of radiators and convectors are required. Complete manufacturers references will be found in the Index to Modern Equipment—pages 1137-1160.

Technical data is contained in Chapter 13.

BURNERS (p. 1060-1069)

Automatic fuel burning equipment suitable for use as an integral part of heating boilers and furnaces, and also for conversion of hand-fired heaters to automatic operation. Gas burners, oil burners, stokers.

Technical data are given in Chapter 10.

PUMPS (p. 1070-1073)

For use in conjunction with heating systems, and other purposes in heating, ventilating and air conditioning service; and for handling air, gases, ammonia, brine and other refrigerants.

References to technical data on pumps will be found in the Index to the Technical Data Section.

SPECIALTIES (p. 1074-1086)

Feed water devices, pressure and draft regulators, combustion controls, strainers, traps, valves, etc.—all essential for efficient operation of heating equipment.

References to technical data on heating specialties may be found in the Index to the Technical Data Section, each indexed under its respective title.

PIPE AND FITTINGS (p. 1087-1090)

Iron, steel, wrought iron, copper, brass—seamless or welded.

Technical data will be found in Chapter 18.

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