

International Heating & Ventilating Exposition

THE AIR CONDITIONING EXPOSITION

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

EXPOSITIONS 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.

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 1938 analysis)

INDUSTRIES

<i>Governmental</i>	872
<i>Distribution Channels</i>	
Contractors, Dealers, Jobbers, Supply Houses, 32 classifications.....	18,483
<i>Home Owners</i>	299
<i>Industrial Users</i> , 95 classifications.....	10,504
<i>Professional and Service Organizations</i> , 43 classifications.....	3,365
<i>Public Utilities</i>	2,124
<i>Real Estate Management and Operation</i> , 18 classifications.....	2,683
<i>Educational Institutions</i>	921
<i>Miscellaneous</i>	806
TOTAL	40,057

OCCUPATIONS

<i>Executive (22 titles)</i>	19,718
<i>Construction (24 titles and trades)</i>	7,877
<i>Operation (21 titles and trades)</i>	3,975
<i>Technical (122 titles)</i>	6,015
<i>Not Classified including Educators, Publishers, Home Owners, etc.</i>	2,472
TOTAL	40,057

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.

AIR SYSTEM EQUIPMENT

Air systems for heating, cooling and ventilating services are produced by grouping various machines and accessories, each performing a function in the complete cycle of the desired operation. The essential parts and accessories described by the manufacturers are contained in the following groups:

AIR FILTERS AND CLEANERS (p. 844-856)

Mechanical and electrical methods of filtering, also air washing and purifying apparatus and their applications.

Technical data on this subject will be found in Chapter 27.

HUMIDIFYING UNITS (p. 857-876)

For supplying moisture to air and controlling its volume as desired for industrial and commercial uses, or for comfort requirements.

Technical data is contained in Chapter 24.

COOLING TOWERS AND SPRAY EQUIPMENT (p. 858-861)

For cooling and reclaiming water used in industrial processes and air conditioning. Technical data will be found in Chapter 26.

HEAT TRANSFER SURFACES (p. 862-865)

As parts of heating and cooling units, and for separate use in industrial and commercial heating and cooling systems.

Technical data is contained in Chapter 25.

CONDENSING UNITS AND REFRIGERATING MACHINERY (p. 866-876)

For refrigerating processes and for cooling purposes in industrial, commercial and comfort air conditioning service.

Technical data will be found in Chapter 24.

FANS AND BLOWERS (p. 877-891)

For use as separate air circulating equipment, or as parts of heating and air conditioning units.

Technical data is contained in Chapters 23 and 28.

MOTORS (p. 892-894)

Used in conjunction with blowers, fans, stokers, oil burners and other heating, cooling and air conditioning apparatus.

Technical data on motors will be found in Chapter 39.

REGISTERS AND GRILLES (p. 895-906)

Air diffusion equipment for use with heating, ventilating and air conditioning systems.

Technical data relating to this equipment is contained in Chapters 29 and 30.

SHEET METAL AND TUBULAR PRODUCTS (p. 907-910)

Sheets for air ducts and enclosures; pipes for gas, refrigerants, steam, water, etc. Technical data on pipe and piping is contained in Chapters 16, 18, 34.

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