

PREFACE TO THE 16th EDITION

THE general acceptance of the HEATING, VENTILATING, AIR CONDITIONING GUIDE as an authoritative source of scientific information on all engineering phases of the industry, has imposed each year since 1922 more and greater responsibilities on the Guide Publication Committee. Although extensive new material has been added to this edition, the ideals of the founders have been carefully preserved by presenting only authentic and current investigative results which have been tried and accepted in practice.

The sequence and arrangement of the various chapters have been changed to provide for a more logical grouping according to related subject matter, and a visual chapter index has been added. Probably, the greatest changes that have been made in the text are those relating to cooling phases of the industry. The chapters on Refrigerants and Air Drying Agents, Cooling Load, Central Systems for Cooling and Dehumidifying and Cooling and Dehumidification Methods have been entirely revised to bring them up-to-date and to correlate them more closely.

One entirely new chapter on Air Conditioning in the Treatment of Disease was introduced in this edition which outlines many of the application requirements found in the medical field. Some minor changes were made in the chapters on Heat Transmission Coefficients, Air Leakage, Heat and Fuel Utilization, Heating Boilers and Steam Heating Systems.

The chapters have been rewritten which deal with Air Pollution, Automatic Fuel Burning Equipment, Hot Water Heating Systems and Piping, Spray Equipment for Humidification and Dehumidification, Air Cleaning Devices, Railway Air Conditioning, Industrial Air Conditioning, Piping and Duct Insulation, Electrical Heating and Radiant Heating.

The Catalog Data Section of the GUIDE is receiving more recognition as each issue appears for the valuable product data contained therein. As usual, the manufacturers have cooperated in accomplishing the dual purpose of this part of the GUIDE; to provide authoritative and condensed catalog information for the Guide user, and to develop an effective and productive advertising medium for the manufacturer.

In offering the 16th edition of the HEATING, VENTILATING, AIR CONDITIONING GUIDE, the Committee wishes to acknowledge not only the editorial assistance unselfishly given by many whose aid is specifically accredited elsewhere, but also the valuable suggestions offered by the many readers and users of other editions. It is hoped that improvements and additions will be suggested to future Committees by readers of this volume, particularly, as perfection is not of human attainment.

Without the publication of previous editions, the issuance of the HEATING, VENTILATING, AIR CONDITIONING GUIDE 1938 in this fairly complete state in so short a time would be practically impossible. It is the Committee's hope that the same enthusiastic reception given to earlier volumes will be accorded this edition of 15,500 copies.

Albert H. Reinger, Chairman

GUIDE PUBLICATION COMMITTEE

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